Appendix A

Air Quality, Greenhouse Gas, Energy, and Health Risk Assessment Modeling

Mass Emissions Summary and Energy Calculations

SMAQMD Harborcraft, Dredge and Barge Emission Factor Calculator - Main Engine Emission Rates

Calendar Year: 2023 **Number of Entries:** 4

Vessel/Engine Information								Emission Rates (lb/hr; estimates for each row are totals over the number of engines listed in column J for that row)										Emission Rates for a Single Engine (g/bhp-hr)									
Vessel Name	Vessel Number	Home Port	Vessel Type	Engine Model Year	Engine Rated Power (hp)	Engine Load Factor	Number of engines	PM_{10}	$PM_{2.5}$	NOx	ROG	CO	SO_2	CO_2	CH_4	N_2O	CO_2e	PM_{10}	$PM_{2.5}$	NOx	ROG	CO	SO_2	CO_2	CH_4	N_2O	CO_2e
Derrick			Barge	2003	600	0.45	1	0.087	0.078	3.079	0.105	0.685	0.003	355.285	0.014	0.003	356.504	0.147	0.131	5.173	0.176	1.150	0.006	596.868	0.024	0.005	598.9
Spud			Barge	2003	240	0.45	1	0.033	0.030	1.287	0.050	0.254	0.002	162.911	0.007	0.001	163.470	0.138	0.124	5.404	0.212	1.067	0.006	684.214	0.028	0.006	686.6
Spud			Barge	2003	240	0.45	1	0.033	0.030	1.287	0.050	0.254	0.002	162.911	0.007	0.001	163.470	0.138	0.124	5.404	0.212	1.067	0.006	684.214	0.028	0.006	686.6
Tug Boat			Tug Boats	2003	1000	0.50	1	0.521	0.465	9.167	0.766	2.690	0.006	651.516	0.026	0.005	653.751	0.473	0.422	8.316	0.695	2.440	0.006	591.045	0.024	0.005	593.1

SMAQMD Harborcraft, Dredge and Barge Emission Factor Calculator - Auxiliary Engine Emission Rates

Calendar Year: 2023 **Number of Entries:** 2

Vessel/Engine Information									Emission Rates (lb/hr; estimates for each row are totals over the number of engines listed in column K for that row)										Emission Rates for a Single Engine (g/bhp-hr)									
Vessel Name	Vessel Number	Home Port	Vessel Type	Auxiliary Engine Type	Engine Model Year	Engine Rated Power (hp)	Engine Load Factor	Number of Engines	PM_{10}	$PM_{2.5}$	NOx	ROG	CO	SO_2	CO_2	CH_4	N_2O	CO_2e	PM_{10}	$PM_{2.5}$	NOx	ROG	CO	SO_2	CO_2	CH_4	N_2O	CO_2e
Derrick			Barge	Barge/Dredge Generator	2003	463	0.75	1	0.107	0.095	3.862	0.129	0.856	0.004	454.349	0.018	0.004	455.909	0.14	0.13	5.07	0.17	1.12	0.006	596.87	0.02	0.00	598.9
Derrick			Barge	Barge/Dredge Generator	2003	211	0.75	1	0.046	0.042	1.849	0.072	0.365	0.002	237.359	0.010	0.002	238.173	0.13	0.12	5.33	0.21	1.05	0.006	684.21	0.03	0.01	686.6

Daily Maximum Emissions Rates (w/T-BACT [Tier 4])

Phase	Dates	Year	Pollutant Emissions (pounds per day)					
			ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Phase 1	Jan 2023-Sept 2024	2023	0.8	3.9	25.5	0.1	0.2	0.1
Phase 2	Sept 2024-June 2025	2024	1.5	10.3	29.8	0.1	0.5	0.4
		2025	1.4	9.5	29.8	0.1	0.4	0.3
Phase 3	Jan 2024-Feb 2024	2024	1.1	7.5	36.8	0.1	0.3	0.2
Phase 4	Jan 2025-Dec 2027	2025	1.1	7.4	36.8	0.1	0.3	0.2
Phase 5	Jan 2024-Jan 2034	2024	0.9	4.8	27.1	0.1	0.3	0.2
Derrick Barge (1 main engine, 2 aux engines)	Jan 2023-July 2025		2.4	70	15	0.1	1.9	1.7
Spud Barge (2 engines)	Jan 2023-July 2025		0.8	21	4.1	0.0	0.5	0.5
Tug Boat (1 engine)	Jan 2023-July 2025		0.8	9	2.7	0.0	0.5	0.5
Combined Daily Max (2024):			7.5	116.3	111.4	0.3	3.8	3.2
Combined Daily Max (2025):			**7.5**	**121.7**	**115.6**	**0.3**	**4.0**	**3.4**
Threshold			**75**	**250**	**550**	**250**	**100**	**55**

Daily Barge Emission Rates (lb/hr)

	Hours	PM10	PM2.5	NOx	ROG	CO	SO2	CO2	CH4	N2O	CO2e
Derrick Barge (1 main engine, 2 aux engines)	8	0.08748	0.07790	3.07942	0.10455	0.68454	0.00332	355.28463	0.01441	0.00288	356.50388
		0.10688	0.09540	3.86212	0.12916	0.85595	0.00425	454.34946	0.01843	0.00369	455.90867
		0.04633	0.04166	1.84897	0.07171	0.36455	0.00222	237.35888	0.00963	0.00193	238.17343
Derrick Total		0.24069	0.21496	8.79051	0.30542	1.90503	0.00979	1046.99297	0.04247	0.00849	1050.58598
Spud Barge (2 engines)	8	0.03291	0.02954	1.28659	0.05045	0.25410	0.00152	162.91100	0.00661	0.00132	163.47007
		0.03291	0.02954	1.28659	0.05045	0.25410	0.00152	162.91100	0.00661	0.00132	163.47007
Spud Total		0.06583	0.05908	2.57319	0.10090	0.50820	0.00305	325.82200	0.01322	0.00264	326.94014
Tug Boat (1 engine)	1	0.52148	0.46481	9.16667	0.76585	2.68996	0.00609	651.51563	0.02643	0.00529	653.75146
Total lb/day		0	0	0	0	0	0	0	0	0	0

Source: SMAQMD Harborcraft, Dredge, and Barge Emission Factor Calculator

Annual Emissions Rates (w/T-BACT [Tier 4])

Phase	By Phase	Annual Emissions (tons per year)								Annual Emissions (MT per year)				CO2 used	Diesel Used	Haul Truck Diesel	Total Diesel	Gasoline Used
		ROG	NO_X	CO	SO_X	Exhaust PM_{10}	PM_{10}	Exhaust PM2.5	$PM_{2.5}$	CO_2	CH_4	N_2O	CO_2e	kg/yr	gallon/yr	gallon/yr	gallon/yr	gallon/yr
Phase 1	2023	0.1413	0.7173	4.6457	0.0116	0.022	0.0428	0.0214	0.027	1012.2707	0.2199	0.0	1018.8954	1,012,271	99,145	16,440	115,585	6,577
	2024	0.1005	0.5041	3.317	0.00827	0.0156	0.0304	0.0152	0.0192	723.131	0.1571	0.0	727.8474	723,131	70,826	16,440	87,266	6,577
Phase 2	2024	0.0785	0.5442	1.5801	3.82E-03	0.0203	0.0262	0.0194	0.021	334.1093	0.0769	0.0	336.3304	334,109	32,724	16,440	49,164	6,577
	2025	0.1347	0.9021	2.8287	6.85E-03	0.0315	0.0422	0.0302	0.0331	599.0154	0.1376	0.0	602.9804	599,015	58,669	16,440	75,109	6,577
Phase 3	2024	0.0328	0.2228	1.0849	0.0024	0.00489	0.00826	0.00481	0.00571	206.5019	0.041	0.0	207.705	206,502	20,225	16,440	36,665	6,577
Phase 4	2025	0.1992	1.3521	6.6897	0.0148	0.0288	0.0497	0.0284	0.034	1274.1867	0.2512	0.0	1281.5496	1,274,187	124,798	16,440	141,238	6,577
	2026	0.1995	1.3548	6.7062	0.0148	0.0289	0.0498	0.0284	0.034	1276.9873	0.2519	0.0	1284.3459	1,276,987	125,072	16,440	141,512	6,577
	2027	0.1993	1.3538	6.7046	0.0148	0.0289	0.0498	0.0284	0.034	1276.2822	0.2519	0.0	1283.6155	1,276,282	125,003	16,440	141,443	6,577
Phase 5	2024	0.1707	0.8744	4.9409	0.0116	0.0315	0.0524	0.0315	0.0371	1015.1954	0.2205	0.0	1021.8176	1,015,195	99,431	--	99,431	6,577
	2025	0.1681	0.8556	4.9385	0.0116	0.0292	0.0501	0.0292	0.0348	1015.3352	0.2202	0.0	1021.9242	1,015,335	99,445	--	99,445	6,577
	2026	0.1678	0.8547	4.9366	0.0116	0.0292	0.0501	0.0292	0.0348	1014.6352	0.2202	0.0	1021.1997	1,014,635	99,377	--	99,377	6,577
	2027	0.1676	0.8537	4.935	0.0116	0.0292	0.0501	0.0292	0.0348	1013.9302	0.2202	0.0	1020.4693	1,013,930	99,308	--	99,308	6,577
	2028	0.1678	0.8553	4.9472	0.0116	0.0292	0.0502	0.0292	0.0348	1016.0389	0.2208	0.0	1022.5718	1,016,039	99,514	--	99,514	6,577
	2029	0.1671	0.852	4.9325	0.0116	0.0292	0.05	0.0291	0.0347	1012.5931	0.2202	0.0	1019.0833	1,012,593	99,177	--	99,177	6,577
	2030	0.1572	0.781	4.9287	0.0118	0.0216	0.0424	0.0215	0.0271	1133.408	0.0282	0.0	1135.0752	1,133,408	111,010	--	111,010	6,577
	2031	0.157	0.7805	4.9278	0.0118	0.0216	0.0424	0.0215	0.0271	1132.9085	0.0282	0.0	1134.5573	1,132,909	110,961	--	110,961	6,577
	2032	0.1572	0.7823	4.9405	0.0118	0.0216	0.0426	0.0216	0.0272	1135.574	0.0282	0.0	1137.2113	1,135,574	111,222	--	111,222	6,577
	2033	0.1566	0.7798	4.9264	0.0118	0.0215	0.0424	0.0215	0.0271	1132.0827	0.0282	0.0	1133.7012	1,132,083	110,880	--	110,880	6,577
	2034	0.0133	0.0662	0.4184	0.001	0.00183	0.0036	0.00183	0.0023	96.12	0.00239	0.0	96.2564	96,120	9,414	--	9,414	1,518
Derrick Barge (1 main engine, 2 aux engines)	Jan 2023-June 2025	0.0489	1.4065	0.3048	0.0016	0.0385	0.0385	0.0344	0.0344	151.9707	0.0062	0.0012	152.4923	151,971	14,885	--	14,885	--
Spud Barge (2 engines)	Jan 2023-June 2025	0.0161	0.4117	0.0813	0.0005	0.0105	0.0105	0.0095	0.0095	47.2930	0.0019	0.0004	47.4553	47,293	4,632	--	4,632	--
Tug Boat (1 engine)	Jan 2023-June 2025	0.0153	0.1833	0.0538	0.0001	0.0104	0.0104	0.0093	0.0093	11.8209	0.0005	0.0001	11.8615	11,821	1,158	--	1,158	--

		Combined Annual Emissions (tons per year)								Annual Emissions (MT per year)				CO2 used	Diesel Used	Haul Truck Diesel	Total Diesel	Gasoline Used
	By Year	ROG	NO_X	CO	SO_X	Exhaust PM_{10}	PM_{10}	Exhaust PM2.5	$PM_{2.5}$	CO_2	CH_4	N_2O	CO_2e	kg/yr	gallon/yr	gallon/yr	gallon/yr	gallon/yr
	2023	0.2	2.7	5.1	0.0	0.1	0.1	0.1	0.1	1,223	0.2285	0.0055	1,231	1,223,355	119,819	16,440	136,259	6,577
	2024	0.5	4.1	11.4	0.0	0.1	0.2	0.1	0.1	2,490	0.5041	0.0097	2,506	2,490,022	243,881	49,320	293200.8	26,308
	2025	0.5	4.1	14.7	0.0	0.1	0.2	0.1	0.1	2,994	0.6133	0.0099	3,012	2,994,080	293,250	32,880	326,130	19,731
	2026	0.4	2.2	11.6	0.0	0.06	0.10	0.06	0.07	2,292	0.4721	0.0071	2,306	2,291,623	224,449	16,440	240,889	13,154
	2027	0.4	2.2	11.6	0.0	0.06	0.10	0.06	0.07	2,290	0.4721	0.0069	2,304	2,290,212	224,311	16,440	240,751	13,154
	2028	0.2	0.9	4.9	0.0116	0.029	0.050	0.029	0.035	1,016	0.2208	0.0034	1,023	1,016,039	99,514	--	99,514	6,577
	2029	0.2	0.9	4.9	0.0116	0.029	0.050	0.029	0.035	1,013	0.2202	0.0033	1,019	1,012,593	99,177	--	99,177	6,577
	2030	0.2	0.8	4.9	0.0118	0.022	0.042	0.022	0.027	1,133	0.0282	0.0032	1,135	1,133,408	111,010	--	111,010	6,577
	2031	0.2	0.8	4.9	0.0118	0.022	0.042	0.022	0.027	1,133	0.0282	0.0032	1,135	1,132,909	110,961	--	110,961	6,577
	2032	0.2	0.8	4.9	0.0118	0.022	0.043	0.022	0.027	1,136	0.0282	0.0031	1,137	1,135,574	111,222	--	111,222	6,577
	2033	0.2	0.8	4.9	0.0118	0.022	0.042	0.022	0.027	1,132	0.0282	0.0031	1,134	1,132,083	110,880	--	110,880	6,577
	2034	0.0	0.1	0.4	0.0010	0.002	0.004	0.002	0.002	96	0.0024	0.0003	96	96,120	9,414	--	9,414	1,518
	TOTAL	2.9	20.3	84.4	0.2	0.6	0.9	0.6	0.7	17,948	2.8	0.0587	18,037	17,948,017	1,757,886	131,520	1,889,406	119,903
	Average (12 Years)	0.245	1.7	7.0	0.017	0.050	0.077	0.048	0.055	598	0.095	0.002	601	1,495,668	146,491	10,960	157,451	9,992
										(Amortized over 30 Years)								

	value	units	source
Diesel Emissions Factor	10.21	kg CO2/gal	2019 Climate Registry Default Emission Factors

	lb/metric ton=	2204.6
		2000
		453.59
	sec/hr=	3600
	Tug Boat	
(assume 8 weeks/year)	days/yr=	40
(assume 8 weeks/year)	Spud days/yr=	40
(assume 8 weeks/year)	Derrick days/yr=	40

HRA Input Calculationss (w/T-BACT [Tier 4])

	Average Annual PM10 Exhaust*			
	ton/year	**lb/year**	**lb/day**	**lb/hr**
On-Site (CalEEMod)	0.03795	75.8909	0.20792	0.00866
On-Site (Barges)	0.00496	9.9121	0.02716	0.00113
Haul Truck (CalEEMod)	5.33E-04	1.0655	0.00292	0.00012
HRA Inputs				
On-Site Construction	0.04290	**85.80301**	0.23508	**0.00979**
Haul Truck (Adjusted for AERMOD trip length)	2.84E-05	**5.677017E-02**	1.56E-04	**6.480613E-06**

	Average Annual PM2.5 Exhaust*			
	ton/year	**lb/year**	**lb/day**	**lb/hr**
On-Site (CalEEMod)	0.03760	75.2036	0.20604	0.00858
On-Site (Barges)	0.00443	8.8571	0.02427	0.00101
Haul Truck (CalEEMod)	5.09E-04	1.0182	0.00279	0.00012
HRA Inputs				
On-Site Construction	0.04203	**84.06071**	0.23030	**0.00960**
Haul Truck (Adjusted for AERMOD trip length)	2.71E-05	**5.42514E-02**	1.49E-04	**6.193077E-06**

Days per year	365	
Hours per Day	24	
Trip Length in CalEEMod (m)	32186.88	(20 miles)
Trip Length in AERMOD (m)	1715	

* Average across 12 year construction period

Daily Maximum Emissions Rates (W/O TBACT [Tier 4])

Phase	Dates	Year	Pollutant Emissions (pounds per day)					
			ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Phase 1	Jan 2023-Sept 2024	2023	1.8601	15.1987	15.4492	0.0637	0.6787	0.5651
		2024	1.7969	14.0456	15.3169	0.0637	0.6321	0.5198
Phase 2	Sept 2024-July 2025	2024	2.2261	18.2682	21.4982	0.0722	0.8417	0.7126
		2025	2.0965	16.4455	21.2853	0.0722	0.7432	0.6198
Phase 3	Jan 2024-Feb 2024	2024	2.9682	22.4821	26.5042	0.0814	0.9735	0.854
Phase 4	Jan 2025-Dec 2027	2025	2.7919	20.5843	26.2623	0.0814	0.8608	0.7454
		2026	2.7905	20.5792	26.2514	0.0814	0.8608	0.7453
		2027	2.7893	20.5743	26.242	0.0813	0.8607	0.7453
Phase 5	Jan 2024-Jan 2034	2024	1.7964	14.0423	15.314	0.0636	0.6321	0.5197
		2025	1.7013	12.5439	15.1214	0.0637	0.5692	0.4597
		2026	1.6999	12.5388	15.1105	0.0636	0.5691	0.4596
		2027	1.6987	12.5339	15.101	0.0636	0.5691	0.4596
		2028	1.6974	12.5298	15.0933	0.0635	0.5691	0.4595
		2029	1.6963	12.5249	15.0863	0.0635	0.569	0.4595
		2030	1.8683	5.9931	14.1033	0.0647	0.3031	0.2173
		2031	1.8671	5.9907	14.098	0.0647	0.3031	0.2172
		2032	1.8661	5.9889	14.0934	0.0646	0.3031	0.2172
		2033	1.8652	5.9871	14.0896	0.0646	0.303	0.2172
		2034	1.8644	5.9854	14.086	0.0646	0.303	0.2172
Derrick Barge (1 main engine, 2 aux engines)	Jan 2023-July 2025		2.4	70.3	15.24	0.08	1.9	1.7
Spud Barge (2 engines)	Jan 2023-July 2025		0.8	20.6	4.1	0.02	0.5	0.5
Tug Boat (1 engine)	Jan 2023-July 2025		0.8	9.2	2.7	0.01	0.5	0.5
Combined Daily Max (2024):			**11.0**	**154.9**	**85.3**	**0.3**	**5.4**	**4.7**
Combined Daily Max (2025):			10.6	149.6	84.7	0.3	5.1	4.5
Threshold			**75**	**250**	**550**	**250**	**100**	**55**

Daily Barge Emission Rates (lb/hr)

	Hours	PM10	PM2.5	NOx	ROG	CO	SO2	CO2	CH4	N2O	CO2e
Derrick Barge (1 main engine, 2 aux engines)	8	0.08748	0.07790	3.07942	0.10455	0.68454	0.00332	355.28463	0.01441	0.00288	356.50388
		0.10688	0.09540	3.86212	0.12916	0.85595	0.00425	454.34946	0.01843	0.00369	455.90867
		0.04633	0.04166	1.84897	0.07171	0.36455	0.00222	237.35888	0.00963	0.00193	238.17343
Derrick Total		0.24069	0.21496	8.79051	0.30542	1.90503	0.00979	1046.99297	0.04247	0.00849	1050.58598
Spud Barge (2 engines)	8	0.03291	0.02954	1.28659	0.05045	0.25410	0.00152	162.91100	0.00661	0.00132	163.47007
		0.03291	0.02954	1.28659	0.05045	0.25410	0.00152	162.91100	0.00661	0.00132	163.47007
Spud Total		0.06583	0.05908	2.57319	0.10090	0.50820	0.00305	325.82200	0.01322	0.00264	326.94014
Tug Boat (1 engine)	1	0.52148	0.46481	9.16667	0.76585	2.68996	0.00609	651.51563	0.02643	0.00529	653.75146
Total lb/day		2.97363	2.65712	100.07622	4.01635	21.99583	0.10875	11634.03536	0.47193	0.09439	11673.96041

Source: SMAQMD Harborcraft, Dredge, and Barge Emission Factor Calculator

Annual Emissions Rates (W/O TBACT [Tier 4])

Phase	By Phase	Annual Emissions (tons per year)								Annual Emissions (MT per year)				CO2 used	Diesel Used	Haul Truck Diesel	Total Diesel	Gasoline Used
		ROG	NO_X	CO	SO_x	Exhaust PM_{10}	PM_{10}	Exhaust PM2.5	$PM_{2.5}$	CO_2	CH_4	N_2O	CO_2e	kg/yr	gallon/yr	gallon/yr	gallon/yr	gallon/yr
Phase 1	2023	0.3385	2.7682	2.8096	0.0116	0.1022	0.1230	0.0972	0.1027	1012.2719	0.2199	0.0038	1018.8966	1,012,272	99,145	16,440	115,585	6,577
	2024	0.2336	1.8274	1.9898	0.0083	0.0670	0.0818	0.0635	0.0675	723.1318	0.1571	0.0027	727.8483	723,132	70,826	16,440	87,266	6,577
Phase 2	2024	0.1180	0.9677	1.1385	0.0038	0.0384	0.0443	0.0361	0.0377	334.1097	0.0769	0.0010	336.3308	334,110	32,724	16,440	49,164	6,577
	2025	0.1991	1.5614	2.0206	0.0069	0.0595	0.0701	0.0559	0.0587	599.0161	0.1376	0.0018	602.9811	599,016	58,670	16,440	75,110	6,577
Phase 3	2024	0.0876	0.6636	0.7816	0.0024	0.0253	0.0286	0.0243	0.0252	206.5021	0.0410	0.0006	207.7053	206,502	20,225	16,440	36,665	6,577
Phase 4	2025	0.5081	3.7484	4.7780	0.0148	0.1354	0.1562	0.1300	0.1355	1274.1882	0.2512	0.0036	1281.5511	1,274,188	124,798	16,440	141,238	6,577
	2026	0.5092	3.7577	4.7892	0.0148	0.1357	0.1566	0.1303	0.1359	1276.9887	0.2519	0.0036	1284.3474	1,276,989	125,072	16,440	141,512	6,577
	2027	0.5090	3.7567	4.7876	0.0148	0.1357	0.1566	0.1303	0.1359	1276.2837	0.2519	0.0035	1283.6170	1,276,284	125,003	16,440	141,443	6,577
Phase 5	2024	0.3278	2.5648	2.7929	0.0116	0.0940	0.1149	0.0891	0.0947	1015.1966	0.2205	0.0037	1021.8188	1,015,197	99,432	--	99,432	6,577
	2025	0.3104	2.2913	2.7579	0.0116	0.0825	0.1034	0.0782	0.0838	1015.3364	0.2202	0.0036	1021.9254	1,015,336	99,445	--	99,445	6,577
	2026	0.3102	2.2903	2.7560	0.0116	0.0825	0.1034	0.0782	0.0838	1014.6364	0.2202	0.0036	1021.2009	1,014,636	99,377	--	99,377	6,577
	2027	0.3100	2.2894	2.7544	0.0116	0.0825	0.1034	0.0782	0.0838	1013.9313	0.2202	0.0035	1020.4705	1,013,931	99,308	--	99,308	6,577
	2028	0.3106	2.2948	2.7606	0.0116	0.0827	0.1037	0.0784	0.0840	1016.0400	0.2208	0.0034	1022.5729	1,016,040	99,514	--	99,514	6,577
	2029	0.3095	2.2876	2.7519	0.0116	0.0825	0.1034	0.0781	0.0837	1012.5943	0.2202	0.0033	1019.0845	1,012,594	99,177	--	99,177	6,577
	2030	0.3409	1.0955	2.5726	0.0118	0.0340	0.0548	0.0339	0.0395	1133.4093	0.0282	0.0032	1135.0765	1,133,409	111,010	--	111,010	6,577
	2031	0.3407	1.0951	2.5716	0.0118	0.0339	0.0548	0.0339	0.0395	1132.9098	0.0282	0.0032	1134.5586	1,132,910	110,961	--	110,961	6,577
	2032	0.3415	1.0977	2.5779	0.0118	0.0340	0.0550	0.0340	0.0396	1135.5753	0.0282	0.0031	1137.2126	1,135,575	111,222	--	111,222	6,577
	2033	0.3404	1.0944	2.5702	0.0118	0.0339	0.0548	0.0339	0.0395	1132.0840	0.0282	0.0031	1133.7025	1,132,084	110,880	--	110,880	6,577
	2034	0.0289	0.0929	0.2182	0.0010	0.0029	0.0047	0.0029	0.0034	96.1201	0.0024	0.0003	96.2565	96,120	9,414	--	9,414	1,518
Derrick Barge (1 main engine, 2 aux engines)	Jan 2023-June 2025	0.0489	1.4065	0.3048	0.0016	0.0385	0.0385	0.0344	0.0344	151.9707	0.0062	0.0012	152.4923	151,971	14,885	--	14,885	--
Spud Barge (2 engines)	Jan 2023-June 2025	0.0161	0.4117	0.0813	0.0005	0.0105	0.0105	0.0095	0.0095	47.2930	0.0019	0.0004	47.4553	47,293	4,632	--	4,632	--
Tug Boat(1 engine)	Jan 2023-June 2025	0.0153	0.1833	0.0538	0.0001	0.0104	0.0104	0.0093	0.0093	11.8209	0.0005	0.0001	11.8615	11,821	1,158	--	1,158	--
		Combined Annual Emissions (tons per year)								Annual Emissions (MT per year)				CO2 used	Diesel Used	Haul Truck Diesel	Total Diesel	Gasoline Used
	By Year	ROG	NO_X	CO	SO_x	Exhaust PM_{10}	PM_{10}	Exhaust PM2.5	$PM_{2.5}$	CO_2	CH_4	N_2O	CO_2e	kg/yr	gallon/yr	gallon/yr	gallon/yr	gallon/yr
	2023	0.4	4.8	3.2	0.0	0.2	0.2	0.2	0.2	1223.4	0.2	0.01	1230.7	1,223,357	119,819	16,440	136,259	6,577
	2024	0.8	8.0	7.1	0.0	0.3	0.3	0.3	0.3	2490.0	0.5	0.0	2505.5	2,490,025	243,881	49,320	293,201	26,308
	2025	1.1	8.6	9.8	0.0	0.3	0.4	0.3	0.3	2994.1	0.6	0.0	3012.4	2,994,083	293,250	32,880	326,130	19,731
	2026	0.8	6.0	7.5	0.0	0.22	0.26	0.21	0.22	2291.6	0.5	0.01	2305.5	2,291,625	224,449	16,440	240,889	13,154
	2027	0.8	6.0	7.5	0.0	0.22	0.26	0.21	0.22	2290.2	0.5	0.01	2304.1	2,290,215	224,311	16,440	240,751	13,154
	2028	0.3	2.3	2.8	0.0116	0.083	0.104	0.078	0.084	1016.0	0.221	0.00	1022.6	1,016,040	99,514	--	99,514	6,577
	2029	0.3	2.3	2.8	0.0116	0.083	0.103	0.078	0.084	1012.6	0.220	0.00	1019.1	1,012,594	99,177	--	99,177	6,577
	2030	0.3	1.1	2.6	0.0118	0.034	0.055	0.034	0.040	1133.4	0.028	0.00	1135.1	1,133,409	111,010	--	111,010	6,577
	2031	0.3	1.1	2.6	0.0118	0.034	0.055	0.034	0.040	1132.9	0.028	0.00	1134.6	1,132,910	110,961	--	110,961	6,577
	2032	0.3	1.1	2.6	0.0118	0.034	0.055	0.034	0.040	1135.6	0.028	0.00	1137.2	1,135,575	111,222	--	111,222	6,577
	2033	0.3	1.1	2.6	0.0118	0.034	0.055	0.034	0.040	1132.1	0.028	0.00	1133.7	1,132,084	110,880	--	110,880	6,577
	2034	0.0	0.1	0.2	0.0010	0.003	0.005	0.003	0.003	96.1	0.002	0.00	96.3	96,120	9,414	--	9,414	1,518
	TOTAL	6.0	42.5	51.3	0.2	1.5	1.8	1.4	1.5	17,948	2.8	0.059	18,037	17,948,037	1,757,888	131,520	1,889,408	119,903
	Average (12 Years)	0.498	3.5	4.3	0.017	0.124	0.152	0.118	0.126	598	0.095	0.002	601	1,495,670	146,491	10,960	157,451	9,992
										(Amortized over 30 Years)								

	value	units	source
Diesel Emissions Factor	10.21	kg CO2/gal	2019 Climate Registry Default Emission Factors

	lb/metric ton=	2204.6
	lb/ton=	2000
	g/lb=	453.59
	sec/hr=	3600
(assume 8 weeks/year)	Tug Boat	40
(assume 8 weeks/year)	Spud days/yr=	40
(assume 8 weeks/year)	Derrick days/yr=	40

Construction-Related Fuel Consumption

Off-Road Construction and Barge Fuel Use (Tier 4)

		Total CO2	CH4	N2O	CO2e	CO2 used	Diesel Used
	Year	MT/yr				kg/yr	gallon/yr
Phase 1	2023	978.9501	0.2184	0.0000	984.4110	978,950	95,881
	2024	699.8683	0.1561	0.0000	703.7701	699,868	68,547
Phase 2	2024	325.0254	0.0765	0.0000	326.9371	325,025	31,834
	2025	583.0877	0.1369	0.0000	586.5105	583,088	57,109
Phase 3	2024	201.1755	0.0407	0.0000	202.1932	201,176	19,704
Phase 4	2025	1242.0389	0.2498	0.0000	1248.2832	1,242,039	121,649
	2026	1245.4511	0.2505	0.0000	1251.7126	1,245,451	121,983
	2027	1245.4511	0.2505	0.0000	1251.7126	1,245,451	121,983
Phase 5	2024	982.2437	0.2190	0.0000	987.7191	982,244	96,204
	2025	983.0991	0.2187	0.0000	988.5665	983,099	96,288
	2026	983.0991	0.2187	0.0000	988.5665	983,099	96,288
	2027	983.0991	0.2187	0.0000	988.5665	983,099	96,288
	2028	985.7925	0.2193	0.0000	991.2749	985,793	96,552
	2029	983.0991	0.2187	0.0000	988.5665	983,099	96,288
	2030	1104.4925	0.0266	0.0000	1105.1582	1,104,493	108,178
	2031	1104.4925	0.0266	0.0000	1105.1582	1,104,493	108,178
	2032	1107.5185	0.0267	0.0000	1108.1860	1,107,519	108,474
	2033	1104.4925	0.0266	0.0000	1105.1582	1,104,493	108,178
	2034	93.8062	0.0023	0.0000	93.8628	93,806	9,188
Derrick Barge (1 main engine, 2 aux engines)	Jan 2023-June 2025	151.9707	0.0062	0.0012	152.4923	151,971	14,885
Spud Barge (2 engines)	Jan 2023-June 2025	47.2930	0.0019	0.0004	47.4553	47,293	4,632
Tug Boat (1 engine)	Jan 2023-June 2025	11.8209	0.0005	0.0001	11.8615	11,821	1,158
	Total	17,147	2.81	0.0017	17,218.12		

12-year Average 1,429

Source: CalEEMod Output

	value	units	source
Diesel Emissions Factor	10.21	kg CO2/gal	2019 Climate Registry Default Emission Factors
Total CO2 Emissions from Off-Road Construction Activity	1,428,947	kg CO2	calculation
Total Diesel Gallons Used from Off-Road Construction Activity	139,956	gal/year	calculation

On-Road Construction Fuel Use

Trips and VMT

Phase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number per day	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Total Worker Travel (VMT)	Total Vendor Travel (VMT)	Total Haul Trip Length (VMT)
Phase 1 - Lot 20	10.00	0.00	2.00	10.80	7.30	20.00	108	-	40
Phase 1 - Dry Dock	10.00	0.00	2.00	10.80	7.30	20.00	108	-	40
Phase 2 - Repair Complex Wharf	10.00	0.00	2.00	10.80	7.30	20.00	108	-	40
Phase 3 - Berths 2-5	10.00	0.00	2.00	10.80	7.30	20.00	108	-	40
Phase 4 - Additional Repairs	10.00	0.00	2.00	10.80	7.30	20.00	108	-	40
Phase 5 - As Needed Structural Pile	10.00	0.00	2.00	10.80	7.30	20.00	108	-	40
Total							648	-	240

Source: CalEEMod Output

	value	units	source
Composite fuel efficiency of all passenger vehicles	25.62	miles/gal	wksht: Veh Fuel Efficiency Rts
Fuel Efficiency of Haul Trucks	5.77	miles/gal	wksht: Veh Fuel Efficiency Rts
Total Passenger Vehicle VMT	648	miles	
Total Heavy Duty Vehicle VMT	240	miles	
	365	days/year	Based on 7-day construction work week
Total gasoline used by passenger vehicles	25	gal/day	calculation. Assume worker trips are made by gas LDVs.
	9,233	gal/year	
Total diesel used by trucks	42	gal/day	calculation. Assume hauling trips are made by diesel
	15,184	gal/year	heavy duty trucks.

Total Construction Fuel Use	value	units	source
Total Diesel Use	155,140	gal/year	calculation
Total Gasoline Use	9,233	gal/year	calculation

Automotive Fuel Consumption Efficiency

EMFAC Output

Source: EMFAC2021 (v1.0.0) Emissions Inventory
Region Type: County
Region: San Diego
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

VehClass	MdlYr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day
LDA	Aggregate	Aggregate	Gasoline	1,187,997	46,861,890	5,524,322	1,704
LDT1	Aggregate	Aggregate	Gasoline	133,485	4,546,534	581,821	200
LDT2	Aggregate	Aggregate	Gasoline	556,694	22,178,209	2,596,754	1,012
HHDT	Aggregate	Aggregate	Diesel	14,307	1,836,650	213,531	318

Notes: vehicles assumed to be gasoline-powered LDA,LDT1, and LDT2 vehicles.

Fuel Efficiency Rates

	value	units	source
daily VMT by passenger vehicle type			
LDA	51,047,689	miles/day	EMFAC2021-ER-202xClass-SanDiego
LDT1	4,560,456	miles/day	EMFAC2021-ER-202xClass-SanDiego
LDT2	22,504,538	miles/day	EMFAC2021-ER-202xClass-SanDiego
Total passenger vehicles	78,112,683	miles/day	summation
Percent breakdown by daily VMT by vehicle type			
LDA	65.4%	%	calculation
LDT1	5.8%	%	calculation
LDT2	28.8%	%	calculation
Total passenger vehicles	100.0%	%	calculation
Fuel Efficiency by passenger vehicle type			
LDA	27.50	miles/gal	calculation
LDT1	22.74	miles/gal	calculation
LDT2	21.92	miles/gal	calculation
Composite fuel efficiency of all passenger vehicles	25.62	miles/gal	sumproduct calculation
Daily HHDT VMT in San Diego County	1,836,650	VMT/day	
Daily HHDT diesel Fuel Use in San Diego County	318	1000 gal/day	
Fuel Efficiency of Haul Trucks	5.77	miles/gal	calculation

Source: EMFAC2021 (v1.0.0) Emissions Inventory
Region Type: County
Region: San Diego
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC202x Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Y	Vehicle Ca	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Consumption	Fuel Consumption
San Diego	2023	LDA	Aggregate	Aggregate	Gasoline	1187996.787	46861890.34	46861890.34	0	5524322.043	0	1703.836516
San Diego	2023	LDA	Aggregate	Aggregate	Diesel	6078.697646	189349.3018	189349.3018	0	25988.35412	0	4.781144695
San Diego	2023	LDA	Aggregate	Aggregate	Electricity	54726.41413	2588246.332	0	2588246.332	273411.2642	999276.7039	0
San Diego	2023	LDA	Aggregate	Aggregate	Plug-in Hybrid	29516.95354	1408203.168	713916.1791	694286.9893	145075.8267	209695.3638	26.40150237
San Diego	2023	LDT1	Aggregate	Aggregate	Gasoline	133484.8222	4546534.432	4546534.432	0	581821.2428	0	199.967695
San Diego	2023	LDT1	Aggregate	Aggregate	Diesel	67.23343472	995.6320443	995.6320443	0	195.8099381	0	0.044293681
San Diego	2023	LDT1	Aggregate	Aggregate	Electricity	204.7019296	8437.073155	0	8437.073155	976.6991371	3257.406587	0
San Diego	2023	LDT1	Aggregate	Aggregate	Plug-in Hybrid	86.45104649	4488.739012	2066.321888	2422.417124	424.9068935	731.642171	0.076748587
San Diego	2023	LDT2	Aggregate	Aggregate	Gasoline	556694.0451	22178208.96	22178208.96	0	2596753.785	0	1011.789037
San Diego	2023	LDT2	Aggregate	Aggregate	Diesel	2034.381185	85740.49734	85740.49734	0	9726.183413	0	2.938858603
San Diego	2023	LDT2	Aggregate	Aggregate	Electricity	2060.079527	78826.80316	0	78826.80316	10584.85854	30433.65195	0
San Diego	2023	LDT2	Aggregate	Aggregate	Plug-in Hybrid	3222.12783	161761.4623	77473.81663	84287.6457	15836.75828	25457.38118	2.888478295
San Diego	2023	T7 Public (	Aggregate	Aggregate	Diesel	1509.656324	65371.70601	65371.70601	0	7744.53694	0	12.61754369
San Diego	2023	T7 Public (	Aggregate	Aggregate	Electricity	0.531539451	15.25069178	0	15.25069178	2.726797385	29.93074174	0
San Diego	2023	T7 Public (	Aggregate	Aggregate	Natural Gas	7.3144488	376.680841	376.680841	0	37.52312234	0	0.082735654

CalEEMod Outputs (Equipment List/Use)

NASSCO - Phase 1 - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

NASSCO - Phase 1

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	145.70	1000sqft	3.34	145,697.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2025
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Existing floating dry dock is approximately 142,680 square feet, mooring dolphin is 1,456 square feet, approach pier is 1,561 square feet. Total = 145,697 sq ft.

Construction Phase - Client provided information. Phase 1 (Jan 2, 2023 - Sept 16, 2024): Removal and replacement of the existing floating dry dock and construction of supporting infrastructure.

Off-road Equipment - Client supplied equipment list

Off-road Equipment - Client supplied equipment list

Trips and VMT - 2 haul truck trips per day per client. Most materials will be transported via water access.

Vehicle Trips -

Vehicle Emission Factors - EMFAC 2021 Emission Factors

Vehicle Emission Factors - EMFAC 2021 Emission Factors

Vehicle Emission Factors - EMFAC 2021 Emission Factors

Area Coating -

NASSCO - Phase 1 - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Mitigation: at least 90% Tier 4 engines.

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	230.00	288.00
tblConstructionPhase	NumDays	230.00	336.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblLandUse	LandUseSquareFeet	145,700.00	145,697.00
tblOffRoadEquipment	HorsePower	231.00	282.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	HorsePower	231.00	282.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	85.00	10.00
tblOffRoadEquipment	HorsePower	85.00	10.00
tblOffRoadEquipment	HorsePower	158.00	242.00
tblOffRoadEquipment	HorsePower	158.00	242.00
tblOffRoadEquipment	HorsePower	402.00	385.00
tblOffRoadEquipment	HorsePower	402.00	385.00
tblOffRoadEquipment	HorsePower	172.00	595.00
tblOffRoadEquipment	HorsePower	172.00	595.00
tblOffRoadEquipment	HorsePower	84.00	225.00
tblOffRoadEquipment	HorsePower	84.00	225.00
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	574.00
tblTripsAndVMT	HaulingTripNumber	0.00	670.00
tblTripsAndVMT	VendorTripNumber	24.00	0.00
tblTripsAndVMT	VendorTripNumber	24.00	0.00
tblTripsAndVMT	WorkerTripNumber	61.00	10.00
tblTripsAndVMT	WorkerTripNumber	61.00	10.00
tblVehicleEF	HHD	0.03	0.71
tblVehicleEF	HHD	0.08	0.06
tblVehicleEF	HHD	6.64	76.55
tblVehicleEF	HHD	0.51	0.50

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	HHD	8.2890e-003	2.5080e-003
tblVehicleEF	HHD	1,078.46	11,481.16
tblVehicleEF	HHD	1,383.23	1,449.81
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	0.17	1.82
tblVehicleEF	HHD	0.22	0.23
tblVehicleEF	HHD	4.0000e-006	2.0000e-006
tblVehicleEF	HHD	5.65	63.27
tblVehicleEF	HHD	2.60	1.66
tblVehicleEF	HHD	2.38	2.66
tblVehicleEF	HHD	2.8750e-003	0.03
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	2.7510e-003	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8700e-003	8.8370e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	3.0000e-006	3.0070e-003
tblVehicleEF	HHD	1.6600e-004	4.2000e-005
tblVehicleEF	HHD	0.45	5.14
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	7.0000e-005	1.5500e-004
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	9.9650e-003	0.11
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	3.0000e-006	3.0070e-003
tblVehicleEF	HHD	1.6600e-004	4.2000e-005

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	HHD	0.52	6.33
tblVehicleEF	HHD	0.11	0.08
tblVehicleEF	HHD	7.0000e-005	1.5500e-004
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.74
tblVehicleEF	HHD	0.08	0.06
tblVehicleEF	HHD	6.54	76.53
tblVehicleEF	HHD	0.51	0.52
tblVehicleEF	HHD	7.7910e-003	2.2820e-003
tblVehicleEF	HHD	1,066.26	11,332.25
tblVehicleEF	HHD	1,383.24	1,433.35
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	0.17	1.80
tblVehicleEF	HHD	0.22	0.23
tblVehicleEF	HHD	4.0000e-006	1.0000e-006
tblVehicleEF	HHD	5.40	62.43
tblVehicleEF	HHD	2.50	1.59
tblVehicleEF	HHD	2.38	2.67
tblVehicleEF	HHD	2.5110e-003	0.03
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	2.4020e-003	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8700e-003	8.8380e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	5.0000e-006	2.5580e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	HHD	1.7100e-004	3.4000e-005
tblVehicleEF	HHD	0.47	5.14
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	6.9000e-005	1.3900e-004
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	9.8520e-003	0.10
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	5.0000e-006	2.5580e-003
tblVehicleEF	HHD	1.7100e-004	3.4000e-005
tblVehicleEF	HHD	0.54	6.36
tblVehicleEF	HHD	0.11	0.08
tblVehicleEF	HHD	6.9000e-005	1.3900e-004
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.80
tblVehicleEF	HHD	0.08	0.08
tblVehicleEF	HHD	6.77	80.34
tblVehicleEF	HHD	0.51	0.57
tblVehicleEF	HHD	8.5100e-003	5.0770e-003
tblVehicleEF	HHD	1,095.31	13,127.44
tblVehicleEF	HHD	1,383.23	1,652.70
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	0.17	2.08
tblVehicleEF	HHD	0.22	0.26
tblVehicleEF	HHD	4.0000e-006	8.0000e-006
tblVehicleEF	HHD	5.99	70.64
tblVehicleEF	HHD	2.59	2.06
tblVehicleEF	HHD	2.38	2.75
tblVehicleEF	HHD	3.3780e-003	0.04

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	3.2320e-003	0.04
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8700e-003	8.8310e-003
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	3.0000e-006	8.0720e-003
tblVehicleEF	HHD	1.8700e-004	1.1600e-004
tblVehicleEF	HHD	0.41	4.92
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	7.7000e-005	3.1900e-004
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	HHD	0.01	0.12
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	3.0000e-006	8.0720e-003
tblVehicleEF	HHD	1.8700e-004	1.1600e-004
tblVehicleEF	HHD	0.47	6.17
tblVehicleEF	HHD	0.11	0.11
tblVehicleEF	HHD	7.7000e-005	3.1900e-004
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	LDA	1.6100e-003	1.9870e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.47	0.57
tblVehicleEF	LDA	1.91	2.34
tblVehicleEF	LDA	236.56	252.96
tblVehicleEF	LDA	48.25	60.27

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tblVehicleEF	LDA	3.7570e-003	3.7030e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.15	0.20
tblVehicleEF	LDA	0.04	7.0230e-003
tblVehicleEF	LDA	1.3810e-003	1.2570e-003
tblVehicleEF	LDA	1.6530e-003	1.6670e-003
tblVehicleEF	LDA	0.02	2.4580e-003
tblVehicleEF	LDA	1.2720e-003	1.1560e-003
tblVehicleEF	LDA	1.5200e-003	1.5330e-003
tblVehicleEF	LDA	0.03	1.20
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	5.7850e-003	7.1680e-003
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.17	0.23
tblVehicleEF	LDA	2.3400e-003	2.5010e-003
tblVehicleEF	LDA	4.7700e-004	5.9600e-004
tblVehicleEF	LDA	0.03	1.20
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	8.3980e-003	0.01
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.19	0.25
tblVehicleEF	LDA	1.7530e-003	1.9740e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.53	0.58
tblVehicleEF	LDA	1.58	2.29
tblVehicleEF	LDA	249.66	253.65
tblVehicleEF	LDA	47.65	60.06
tblVehicleEF	LDA	3.5390e-003	3.6470e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.14	0.20
tblVehicleEF	LDA	0.04	7.0210e-003
tblVehicleEF	LDA	1.3810e-003	1.2510e-003
tblVehicleEF	LDA	1.6530e-003	1.6610e-003
tblVehicleEF	LDA	0.02	2.4570e-003
tblVehicleEF	LDA	1.2720e-003	1.1520e-003
tblVehicleEF	LDA	1.5200e-003	1.5270e-003
tblVehicleEF	LDA	0.05	1.22
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	6.2220e-003	7.0860e-003
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.15	0.23
tblVehicleEF	LDA	2.4700e-003	2.5070e-003
tblVehicleEF	LDA	4.7200e-004	5.9400e-004
tblVehicleEF	LDA	0.05	1.22
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	9.0370e-003	0.01
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.16	0.25
tblVehicleEF	LDA	1.5750e-003	2.8490e-003
tblVehicleEF	LDA	0.04	0.07
tblVehicleEF	LDA	0.46	0.70
tblVehicleEF	LDA	2.05	3.25
tblVehicleEF	LDA	234.19	281.69
tblVehicleEF	LDA	48.50	68.09
tblVehicleEF	LDA	3.7810e-003	4.6970e-003
tblVehicleEF	LDA	0.02	0.03

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tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.16	0.25
tblVehicleEF	LDA	0.04	7.1270e-003
tblVehicleEF	LDA	1.3810e-003	1.6660e-003
tblVehicleEF	LDA	1.6530e-003	2.0740e-003
tblVehicleEF	LDA	0.02	2.4940e-003
tblVehicleEF	LDA	1.2720e-003	1.5340e-003
tblVehicleEF	LDA	1.5200e-003	1.9070e-003
tblVehicleEF	LDA	0.03	1.35
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	5.6880e-003	0.01
tblVehicleEF	LDA	0.03	0.22
tblVehicleEF	LDA	0.18	0.33
tblVehicleEF	LDA	2.3170e-003	2.7840e-003
tblVehicleEF	LDA	4.8000e-004	6.7300e-004
tblVehicleEF	LDA	0.03	1.35
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	8.2580e-003	0.02
tblVehicleEF	LDA	0.03	0.22
tblVehicleEF	LDA	0.19	0.36
tblVehicleEF	LDT1	4.5160e-003	7.4770e-003
tblVehicleEF	LDT1	0.06	0.10
tblVehicleEF	LDT1	0.92	1.41
tblVehicleEF	LDT1	2.15	4.84
tblVehicleEF	LDT1	290.44	340.26
tblVehicleEF	LDT1	60.15	83.40
tblVehicleEF	LDT1	6.4980e-003	9.3350e-003
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.08	0.12

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT1	0.23	0.37
tblVehicleEF	LDT1	0.04	9.2390e-003
tblVehicleEF	LDT1	1.8320e-003	2.1880e-003
tblVehicleEF	LDT1	2.1830e-003	2.7210e-003
tblVehicleEF	LDT1	0.02	3.2340e-003
tblVehicleEF	LDT1	1.6860e-003	2.0130e-003
tblVehicleEF	LDT1	2.0070e-003	2.5020e-003
tblVehicleEF	LDT1	0.09	3.05
tblVehicleEF	LDT1	0.19	0.18
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.09	0.53
tblVehicleEF	LDT1	0.30	0.51
tblVehicleEF	LDT1	2.8740e-003	3.3640e-003
tblVehicleEF	LDT1	5.9500e-004	8.2400e-004
tblVehicleEF	LDT1	0.09	3.05
tblVehicleEF	LDT1	0.19	0.18
tblVehicleEF	LDT1	0.03	0.05
tblVehicleEF	LDT1	0.09	0.53
tblVehicleEF	LDT1	0.33	0.56
tblVehicleEF	LDT1	4.8740e-003	7.4210e-003
tblVehicleEF	LDT1	0.05	0.10
tblVehicleEF	LDT1	1.03	1.43
tblVehicleEF	LDT1	1.77	4.70
tblVehicleEF	LDT1	304.29	341.45
tblVehicleEF	LDT1	59.42	83.03
tblVehicleEF	LDT1	6.0610e-003	9.1450e-003
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.07	0.12
tblVehicleEF	LDT1	0.21	0.37

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT1	0.04	9.2400e-003
tblVehicleEF	LDT1	1.8320e-003	2.1720e-003
tblVehicleEF	LDT1	2.1830e-003	2.7020e-003
tblVehicleEF	LDT1	0.02	3.2340e-003
tblVehicleEF	LDT1	1.6860e-003	1.9980e-003
tblVehicleEF	LDT1	2.0070e-003	2.4850e-003
tblVehicleEF	LDT1	0.14	3.10
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.08	0.53
tblVehicleEF	LDT1	0.26	0.50
tblVehicleEF	LDT1	3.0110e-003	3.3760e-003
tblVehicleEF	LDT1	5.8800e-004	8.2100e-004
tblVehicleEF	LDT1	0.14	3.10
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.03	0.05
tblVehicleEF	LDT1	0.08	0.53
tblVehicleEF	LDT1	0.28	0.54
tblVehicleEF	LDT1	4.4300e-003	0.01
tblVehicleEF	LDT1	0.06	0.13
tblVehicleEF	LDT1	0.90	1.84
tblVehicleEF	LDT1	2.31	6.81
tblVehicleEF	LDT1	287.94	362.43
tblVehicleEF	LDT1	60.45	91.86
tblVehicleEF	LDT1	6.5530e-003	0.01
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.08	0.19
tblVehicleEF	LDT1	0.24	0.48
tblVehicleEF	LDT1	0.04	9.2870e-003

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tblVehicleEF	LDT1	1.8320e-003	2.8810e-003
tblVehicleEF	LDT1	2.1830e-003	3.4250e-003
tblVehicleEF	LDT1	0.02	3.2500e-003
tblVehicleEF	LDT1	1.6860e-003	2.6510e-003
tblVehicleEF	LDT1	2.0070e-003	3.1490e-003
tblVehicleEF	LDT1	0.08	3.43
tblVehicleEF	LDT1	0.21	0.21
tblVehicleEF	LDT1	0.02	0.05
tblVehicleEF	LDT1	0.11	0.66
tblVehicleEF	LDT1	0.31	0.71
tblVehicleEF	LDT1	2.8490e-003	3.5830e-003
tblVehicleEF	LDT1	5.9800e-004	9.0800e-004
tblVehicleEF	LDT1	0.08	3.43
tblVehicleEF	LDT1	0.21	0.21
tblVehicleEF	LDT1	0.03	0.07
tblVehicleEF	LDT1	0.11	0.66
tblVehicleEF	LDT1	0.34	0.77
tblVehicleEF	LDT2	2.9460e-003	2.9450e-003
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.68	0.75
tblVehicleEF	LDT2	2.48	2.95
tblVehicleEF	LDT2	304.16	343.90
tblVehicleEF	LDT2	63.10	80.72
tblVehicleEF	LDT2	5.3950e-003	5.3400e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.23	0.28
tblVehicleEF	LDT2	0.04	8.7990e-003
tblVehicleEF	LDT2	1.4180e-003	1.4140e-003

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tblVehicleEF	LDT2	1.6420e-003	1.7750e-003
tblVehicleEF	LDT2	0.02	3.0800e-003
tblVehicleEF	LDT2	1.3050e-003	1.3010e-003
tblVehicleEF	LDT2	1.5100e-003	1.6320e-003
tblVehicleEF	LDT2	0.06	1.32
tblVehicleEF	LDT2	0.12	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.26	0.30
tblVehicleEF	LDT2	3.0090e-003	3.3990e-003
tblVehicleEF	LDT2	6.2400e-004	7.9800e-004
tblVehicleEF	LDT2	0.06	1.32
tblVehicleEF	LDT2	0.12	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.28	0.33
tblVehicleEF	LDT2	3.1950e-003	2.9320e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.76	0.76
tblVehicleEF	LDT2	2.04	2.88
tblVehicleEF	LDT2	317.29	344.65
tblVehicleEF	LDT2	62.31	80.46
tblVehicleEF	LDT2	5.0620e-003	5.2550e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.21	0.27
tblVehicleEF	LDT2	0.04	8.7980e-003
tblVehicleEF	LDT2	1.4180e-003	1.4100e-003
tblVehicleEF	LDT2	1.6420e-003	1.7710e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT2	0.02	3.0790e-003
tblVehicleEF	LDT2	1.3050e-003	1.2970e-003
tblVehicleEF	LDT2	1.5100e-003	1.6280e-003
tblVehicleEF	LDT2	0.09	1.34
tblVehicleEF	LDT2	0.12	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.22	0.30
tblVehicleEF	LDT2	3.1390e-003	3.4070e-003
tblVehicleEF	LDT2	6.1700e-004	7.9500e-004
tblVehicleEF	LDT2	0.09	1.34
tblVehicleEF	LDT2	0.12	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.24	0.32
tblVehicleEF	LDT2	2.8860e-003	4.0080e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.67	0.90
tblVehicleEF	LDT2	2.66	4.00
tblVehicleEF	LDT2	301.79	375.58
tblVehicleEF	LDT2	63.44	90.06
tblVehicleEF	LDT2	5.4340e-003	6.9200e-003
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.24	0.37
tblVehicleEF	LDT2	0.04	8.8250e-003
tblVehicleEF	LDT2	1.4180e-003	1.7680e-003
tblVehicleEF	LDT2	1.6420e-003	2.1270e-003
tblVehicleEF	LDT2	0.02	3.0890e-003

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tblVehicleEF	LDT2	1.3050e-003	1.6270e-003
tblVehicleEF	LDT2	1.5100e-003	1.9560e-003
tblVehicleEF	LDT2	0.04	1.45
tblVehicleEF	LDT2	0.13	0.09
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.24
tblVehicleEF	LDT2	0.27	0.42
tblVehicleEF	LDT2	2.9850e-003	3.7120e-003
tblVehicleEF	LDT2	6.2800e-004	8.9000e-004
tblVehicleEF	LDT2	0.04	1.45
tblVehicleEF	LDT2	0.13	0.09
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.24
tblVehicleEF	LDT2	0.29	0.46
tblVehicleEF	LHD1	4.3840e-003	0.06
tblVehicleEF	LHD1	7.7200e-003	6.3690e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.17	2.53
tblVehicleEF	LHD1	0.72	0.70
tblVehicleEF	LHD1	0.90	1.82
tblVehicleEF	LHD1	9.03	114.95
tblVehicleEF	LHD1	744.83	686.69
tblVehicleEF	LHD1	10.05	14.76
tblVehicleEF	LHD1	8.5400e-004	9.1300e-003
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.07	0.68
tblVehicleEF	LHD1	0.84	0.62
tblVehicleEF	LHD1	0.26	0.33

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tblVehicleEF	LHD1	9.9400e-004	0.01
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.01	9.5540e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.1700e-004	1.6200e-004
tblVehicleEF	LHD1	9.5100e-004	9.5810e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5050e-003	2.3890e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	2.0000e-004	1.4900e-004
tblVehicleEF	LHD1	1.6140e-003	1.52
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.02	0.26
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.17	0.13
tblVehicleEF	LHD1	0.06	0.08
tblVehicleEF	LHD1	8.7000e-005	1.1170e-003
tblVehicleEF	LHD1	7.2530e-003	6.6900e-003
tblVehicleEF	LHD1	9.9000e-005	1.4600e-004
tblVehicleEF	LHD1	1.6140e-003	1.52
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.03	0.37
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.17	0.13
tblVehicleEF	LHD1	0.06	0.09
tblVehicleEF	LHD1	4.3930e-003	0.06
tblVehicleEF	LHD1	7.8320e-003	6.3150e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.17	2.53

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tblVehicleEF	LHD1	0.73	0.70
tblVehicleEF	LHD1	0.85	1.82
tblVehicleEF	LHD1	9.03	114.85
tblVehicleEF	LHD1	744.85	685.89
tblVehicleEF	LHD1	9.97	14.74
tblVehicleEF	LHD1	8.5600e-004	9.1300e-003
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.07	0.67
tblVehicleEF	LHD1	0.80	0.61
tblVehicleEF	LHD1	0.25	0.33
tblVehicleEF	LHD1	9.9400e-004	0.01
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.01	9.5550e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	2.1700e-004	1.6000e-004
tblVehicleEF	LHD1	9.5100e-004	9.5850e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5050e-003	2.3890e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	2.0000e-004	1.4700e-004
tblVehicleEF	LHD1	2.3300e-003	1.54
tblVehicleEF	LHD1	0.07	0.02
tblVehicleEF	LHD1	0.02	0.26
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.17	0.13
tblVehicleEF	LHD1	0.06	0.08
tblVehicleEF	LHD1	8.7000e-005	1.1160e-003
tblVehicleEF	LHD1	7.2530e-003	6.6820e-003

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tblVehicleEF	LHD1	9.9000e-005	1.4600e-004
tblVehicleEF	LHD1	2.3300e-003	1.54
tblVehicleEF	LHD1	0.07	0.02
tblVehicleEF	LHD1	0.03	0.37
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.17	0.13
tblVehicleEF	LHD1	0.06	0.09
tblVehicleEF	LHD1	4.3800e-003	0.08
tblVehicleEF	LHD1	7.6700e-003	0.01
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.17	2.69
tblVehicleEF	LHD1	0.71	1.01
tblVehicleEF	LHD1	0.92	1.94
tblVehicleEF	LHD1	9.03	126.03
tblVehicleEF	LHD1	744.83	785.08
tblVehicleEF	LHD1	10.09	16.18
tblVehicleEF	LHD1	8.5300e-004	9.8600e-003
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.07	0.83
tblVehicleEF	LHD1	0.84	1.03
tblVehicleEF	LHD1	0.26	0.42
tblVehicleEF	LHD1	9.9400e-004	0.01
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.6600e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.1700e-004	2.3900e-004
tblVehicleEF	LHD1	9.5100e-004	9.9280e-003
tblVehicleEF	LHD1	0.03	0.03

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tblVehicleEF	LHD1	2.5050e-003	2.4150e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.0000e-004	2.2000e-004
tblVehicleEF	LHD1	1.4760e-003	1.93
tblVehicleEF	LHD1	0.08	0.03
tblVehicleEF	LHD1	0.02	0.31
tblVehicleEF	LHD1	0.10	0.12
tblVehicleEF	LHD1	0.19	0.18
tblVehicleEF	LHD1	0.06	0.11
tblVehicleEF	LHD1	8.7000e-005	1.2250e-003
tblVehicleEF	LHD1	7.2530e-003	7.6540e-003
tblVehicleEF	LHD1	1.0000e-004	1.6000e-004
tblVehicleEF	LHD1	1.4760e-003	1.93
tblVehicleEF	LHD1	0.08	0.03
tblVehicleEF	LHD1	0.03	0.44
tblVehicleEF	LHD1	0.12	0.15
tblVehicleEF	LHD1	0.19	0.18
tblVehicleEF	LHD1	0.07	0.12
tblVehicleEF	LHD2	2.9640e-003	0.04
tblVehicleEF	LHD2	6.4040e-003	5.7410e-003
tblVehicleEF	LHD2	7.0010e-003	9.6360e-003
tblVehicleEF	LHD2	0.14	1.83
tblVehicleEF	LHD2	0.59	0.47
tblVehicleEF	LHD2	0.54	1.02
tblVehicleEF	LHD2	13.96	170.75
tblVehicleEF	LHD2	744.92	741.80
tblVehicleEF	LHD2	7.25	8.39
tblVehicleEF	LHD2	1.7690e-003	0.02
tblVehicleEF	LHD2	0.07	0.08

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tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.10	1.05
tblVehicleEF	LHD2	0.82	0.72
tblVehicleEF	LHD2	0.16	0.19
tblVehicleEF	LHD2	1.4400e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.1400e-004	6.9000e-005
tblVehicleEF	LHD2	1.3770e-003	0.02
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.6990e-003	2.6390e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0400e-004	6.4000e-005
tblVehicleEF	LHD2	8.0000e-004	0.83
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.19
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	0.07	0.06
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	1.3300e-004	1.6370e-003
tblVehicleEF	LHD2	7.1890e-003	7.1400e-003
tblVehicleEF	LHD2	7.2000e-005	8.3000e-005
tblVehicleEF	LHD2	8.0000e-004	0.83
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.26
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.07	0.06
tblVehicleEF	LHD2	0.04	0.05

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tblVehicleEF	LHD2	2.9700e-003	0.04
tblVehicleEF	LHD2	6.4490e-003	5.7050e-003
tblVehicleEF	LHD2	6.7120e-003	9.5460e-003
tblVehicleEF	LHD2	0.14	1.83
tblVehicleEF	LHD2	0.59	0.47
tblVehicleEF	LHD2	0.51	1.02
tblVehicleEF	LHD2	13.96	170.68
tblVehicleEF	LHD2	744.93	741.19
tblVehicleEF	LHD2	7.20	8.36
tblVehicleEF	LHD2	1.7700e-003	0.02
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.10	1.05
tblVehicleEF	LHD2	0.79	0.71
tblVehicleEF	LHD2	0.16	0.19
tblVehicleEF	LHD2	1.4400e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.1400e-004	6.8000e-005
tblVehicleEF	LHD2	1.3770e-003	0.02
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.6990e-003	2.6400e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0400e-004	6.3000e-005
tblVehicleEF	LHD2	1.1590e-003	0.84
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.19
tblVehicleEF	LHD2	0.11	0.10

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD2	0.07	0.06
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	1.3300e-004	1.6360e-003
tblVehicleEF	LHD2	7.1890e-003	7.1340e-003
tblVehicleEF	LHD2	7.1000e-005	8.3000e-005
tblVehicleEF	LHD2	1.1590e-003	0.84
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.26
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.07	0.06
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	2.9620e-003	0.05
tblVehicleEF	LHD2	6.3850e-003	8.1630e-003
tblVehicleEF	LHD2	7.1310e-003	0.01
tblVehicleEF	LHD2	0.14	2.01
tblVehicleEF	LHD2	0.59	0.65
tblVehicleEF	LHD2	0.55	1.17
tblVehicleEF	LHD2	13.96	185.66
tblVehicleEF	LHD2	744.92	843.22
tblVehicleEF	LHD2	7.27	9.91
tblVehicleEF	LHD2	1.7680e-003	0.02
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.10	1.29
tblVehicleEF	LHD2	0.81	1.11
tblVehicleEF	LHD2	0.17	0.26
tblVehicleEF	LHD2	1.4400e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01

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tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.1400e-004	1.1000e-004
tblVehicleEF	LHD2	1.3770e-003	0.02
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.6990e-003	2.6710e-003
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.0400e-004	1.0100e-004
tblVehicleEF	LHD2	7.1400e-004	1.02
tblVehicleEF	LHD2	0.04	0.02
tblVehicleEF	LHD2	0.02	0.23
tblVehicleEF	LHD2	0.11	0.14
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.03	0.07
tblVehicleEF	LHD2	1.3300e-004	1.7810e-003
tblVehicleEF	LHD2	7.1890e-003	8.1260e-003
tblVehicleEF	LHD2	7.2000e-005	9.8000e-005
tblVehicleEF	LHD2	7.1400e-004	1.02
tblVehicleEF	LHD2	0.04	0.02
tblVehicleEF	LHD2	0.02	0.32
tblVehicleEF	LHD2	0.13	0.16
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.04	0.07
tblVehicleEF	MCY	0.35	0.20
tblVehicleEF	MCY	0.24	0.16
tblVehicleEF	MCY	19.81	13.05
tblVehicleEF	MCY	8.66	7.68
tblVehicleEF	MCY	220.35	203.25
tblVehicleEF	MCY	59.87	45.52
tblVehicleEF	MCY	0.07	0.04

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tblVehicleEF	MCY	0.02	7.1880e-003
tblVehicleEF	MCY	1.15	0.56
tblVehicleEF	MCY	0.27	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.1740e-003	2.4700e-003
tblVehicleEF	MCY	2.8910e-003	3.3630e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.0310e-003	2.3070e-003
tblVehicleEF	MCY	2.7170e-003	3.1550e-003
tblVehicleEF	MCY	0.94	4.15
tblVehicleEF	MCY	0.74	3.60
tblVehicleEF	MCY	2.40	1.27
tblVehicleEF	MCY	0.50	3.78
tblVehicleEF	MCY	1.84	1.21
tblVehicleEF	MCY	2.1810e-003	2.0090e-003
tblVehicleEF	MCY	5.9200e-004	4.5000e-004
tblVehicleEF	MCY	0.94	4.15
tblVehicleEF	MCY	0.74	3.60
tblVehicleEF	MCY	2.98	1.55
tblVehicleEF	MCY	0.50	3.78
tblVehicleEF	MCY	2.00	1.31
tblVehicleEF	MCY	0.35	0.19
tblVehicleEF	MCY	0.21	0.16
tblVehicleEF	MCY	18.90	13.00
tblVehicleEF	MCY	7.75	7.61
tblVehicleEF	MCY	218.65	203.17
tblVehicleEF	MCY	57.62	45.29
tblVehicleEF	MCY	0.06	0.04
tblVehicleEF	MCY	0.01	7.1420e-003

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tblVehicleEF	MCY	1.04	0.56
tblVehicleEF	MCY	0.25	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.1740e-003	2.4710e-003
tblVehicleEF	MCY	2.8910e-003	3.3530e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.0310e-003	2.3090e-003
tblVehicleEF	MCY	2.7170e-003	3.1450e-003
tblVehicleEF	MCY	1.52	4.26
tblVehicleEF	MCY	0.84	3.61
tblVehicleEF	MCY	2.33	1.27
tblVehicleEF	MCY	0.46	3.77
tblVehicleEF	MCY	1.60	1.19
tblVehicleEF	MCY	2.1640e-003	2.0090e-003
tblVehicleEF	MCY	5.7000e-004	4.4800e-004
tblVehicleEF	MCY	1.52	4.26
tblVehicleEF	MCY	0.84	3.61
tblVehicleEF	MCY	2.89	1.54
tblVehicleEF	MCY	0.46	3.77
tblVehicleEF	MCY	1.74	1.30
tblVehicleEF	MCY	0.36	0.21
tblVehicleEF	MCY	0.25	0.19
tblVehicleEF	MCY	20.45	14.65
tblVehicleEF	MCY	9.13	8.20
tblVehicleEF	MCY	221.50	205.59
tblVehicleEF	MCY	60.99	50.21
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	8.5500e-003
tblVehicleEF	MCY	1.17	0.62

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tblVehicleEF	MCY	0.27	0.15
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.1740e-003	2.3570e-003
tblVehicleEF	MCY	2.8910e-003	3.5430e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.0310e-003	2.2070e-003
tblVehicleEF	MCY	2.7170e-003	3.3360e-003
tblVehicleEF	MCY	0.86	4.02
tblVehicleEF	MCY	0.99	3.58
tblVehicleEF	MCY	2.43	1.44
tblVehicleEF	MCY	0.59	4.05
tblVehicleEF	MCY	1.96	1.43
tblVehicleEF	MCY	2.1920e-003	2.0320e-003
tblVehicleEF	MCY	6.0400e-004	4.9600e-004
tblVehicleEF	MCY	0.86	4.02
tblVehicleEF	MCY	0.99	3.58
tblVehicleEF	MCY	3.02	1.72
tblVehicleEF	MCY	0.59	4.05
tblVehicleEF	MCY	2.13	1.55
tblVehicleEF	MDV	3.1750e-003	3.5470e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.69	0.81
tblVehicleEF	MDV	2.68	3.14
tblVehicleEF	MDV	368.17	413.72
tblVehicleEF	MDV	75.95	96.88
tblVehicleEF	MDV	7.0150e-003	6.9070e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.26	0.33

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tblVehicleEF	MDV	0.04	8.8900e-003
tblVehicleEF	MDV	1.4570e-003	1.4410e-003
tblVehicleEF	MDV	1.6720e-003	1.7910e-003
tblVehicleEF	MDV	0.02	3.1120e-003
tblVehicleEF	MDV	1.3440e-003	1.3280e-003
tblVehicleEF	MDV	1.5370e-003	1.6460e-003
tblVehicleEF	MDV	0.06	1.59
tblVehicleEF	MDV	0.13	0.09
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.06	0.26
tblVehicleEF	MDV	0.30	0.38
tblVehicleEF	MDV	3.6390e-003	4.0870e-003
tblVehicleEF	MDV	7.5200e-004	9.5800e-004
tblVehicleEF	MDV	0.06	1.59
tblVehicleEF	MDV	0.13	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.06	0.26
tblVehicleEF	MDV	0.33	0.41
tblVehicleEF	MDV	3.4450e-003	3.5160e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.77	0.82
tblVehicleEF	MDV	2.20	3.06
tblVehicleEF	MDV	381.34	414.37
tblVehicleEF	MDV	75.07	96.57
tblVehicleEF	MDV	6.6620e-003	6.7840e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.05	0.07
tblVehicleEF	MDV	0.24	0.33
tblVehicleEF	MDV	0.04	8.8890e-003

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tblVehicleEF	MDV	1.4570e-003	1.4340e-003
tblVehicleEF	MDV	1.6720e-003	1.7810e-003
tblVehicleEF	MDV	0.02	3.1110e-003
tblVehicleEF	MDV	1.3440e-003	1.3220e-003
tblVehicleEF	MDV	1.5370e-003	1.6380e-003
tblVehicleEF	MDV	0.10	1.61
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.05	0.26
tblVehicleEF	MDV	0.26	0.37
tblVehicleEF	MDV	3.7690e-003	4.0940e-003
tblVehicleEF	MDV	7.4300e-004	9.5500e-004
tblVehicleEF	MDV	0.10	1.61
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.05	0.26
tblVehicleEF	MDV	0.29	0.40
tblVehicleEF	MDV	3.1100e-003	5.3930e-003
tblVehicleEF	MDV	0.07	0.11
tblVehicleEF	MDV	0.68	1.06
tblVehicleEF	MDV	2.87	4.42
tblVehicleEF	MDV	365.78	455.28
tblVehicleEF	MDV	76.32	108.53
tblVehicleEF	MDV	7.0560e-003	9.7720e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.06	0.12
tblVehicleEF	MDV	0.27	0.48
tblVehicleEF	MDV	0.04	8.9880e-003
tblVehicleEF	MDV	1.4570e-003	1.8920e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MDV	1.6720e-003	2.2530e-003
tblVehicleEF	MDV	0.02	3.1460e-003
tblVehicleEF	MDV	1.3440e-003	1.7460e-003
tblVehicleEF	MDV	1.5370e-003	2.0720e-003
tblVehicleEF	MDV	0.05	1.79
tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.07	0.30
tblVehicleEF	MDV	0.32	0.57
tblVehicleEF	MDV	3.6150e-003	4.4980e-003
tblVehicleEF	MDV	7.5500e-004	1.0730e-003
tblVehicleEF	MDV	0.05	1.79
tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.07	0.30
tblVehicleEF	MDV	0.35	0.63
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.10	0.94
tblVehicleEF	MH	1.94	2.11
tblVehicleEF	MH	1,525.58	1,670.37
tblVehicleEF	MH	17.93	21.04
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.55	1.58
tblVehicleEF	MH	0.24	0.31
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MH	2.4100e-004	2.5800e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.2890e-003	3.3220e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.2200e-004	2.3800e-004
tblVehicleEF	MH	0.69	2.95
tblVehicleEF	MH	0.06	7.37
tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.02	0.17
tblVehicleEF	MH	0.09	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.7700e-004	2.0800e-004
tblVehicleEF	MH	0.69	2.95
tblVehicleEF	MH	0.06	7.37
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.02	0.17
tblVehicleEF	MH	0.10	0.11
tblVehicleEF	MH	0.01	9.9380e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.13	0.91
tblVehicleEF	MH	1.81	2.08
tblVehicleEF	MH	1,525.64	1,669.46
tblVehicleEF	MH	17.72	20.96
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.48	1.57
tblVehicleEF	MH	0.23	0.31
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01

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tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.4100e-004	2.5500e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.2890e-003	3.3230e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.2200e-004	2.3500e-004
tblVehicleEF	MH	0.95	3.00
tblVehicleEF	MH	0.06	7.35
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.17
tblVehicleEF	MH	0.09	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.7500e-004	2.0700e-004
tblVehicleEF	MH	0.95	3.00
tblVehicleEF	MH	0.06	7.35
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.02	0.17
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	1.08	1.61
tblVehicleEF	MH	2.00	2.57
tblVehicleEF	MH	1,525.56	1,699.67
tblVehicleEF	MH	18.03	22.98
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.54	1.69
tblVehicleEF	MH	0.25	0.30
tblVehicleEF	MH	0.13	0.04

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	2.4100e-004	3.1900e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	2.2200e-004	2.9400e-004
tblVehicleEF	MH	0.69	3.41
tblVehicleEF	MH	0.07	9.37
tblVehicleEF	MH	0.07	0.10
tblVehicleEF	MH	0.02	0.22
tblVehicleEF	MH	0.09	0.12
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.7800e-004	2.2700e-004
tblVehicleEF	MH	0.69	3.41
tblVehicleEF	MH	0.07	9.37
tblVehicleEF	MH	0.10	0.13
tblVehicleEF	MH	0.02	0.22
tblVehicleEF	MH	0.10	0.13
tblVehicleEF	MHD	3.9860e-003	0.25
tblVehicleEF	MHD	1.7800e-003	0.01
tblVehicleEF	MHD	9.8670e-003	9.5600e-003
tblVehicleEF	MHD	0.41	8.81
tblVehicleEF	MHD	0.23	0.30
tblVehicleEF	MHD	1.10	1.07
tblVehicleEF	MHD	76.60	1,724.30
tblVehicleEF	MHD	1,072.80	1,131.79
tblVehicleEF	MHD	9.96	9.53
tblVehicleEF	MHD	0.01	0.26
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	8.0860e-003	6.7900e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MHD	0.45	8.99
tblVehicleEF	MHD	1.39	0.76
tblVehicleEF	MHD	1.66	1.17
tblVehicleEF	MHD	3.5600e-004	0.01
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	6.6970e-003	7.1540e-003
tblVehicleEF	MHD	1.2100e-004	1.1500e-004
tblVehicleEF	MHD	3.4100e-004	0.01
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.4000e-003	6.8340e-003
tblVehicleEF	MHD	1.1100e-004	1.0500e-004
tblVehicleEF	MHD	3.8000e-004	0.55
tblVehicleEF	MHD	0.02	6.3890e-003
tblVehicleEF	MHD	0.02	0.37
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	7.2700e-004	0.02
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.9000e-005	9.4000e-005
tblVehicleEF	MHD	3.8000e-004	0.55
tblVehicleEF	MHD	0.02	6.3890e-003
tblVehicleEF	MHD	0.03	0.68
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.7920e-003	0.25
tblVehicleEF	MHD	1.8160e-003	0.01
tblVehicleEF	MHD	9.4390e-003	9.4740e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MHD	0.35	8.74
tblVehicleEF	MHD	0.24	0.29
tblVehicleEF	MHD	1.04	1.06
tblVehicleEF	MHD	76.68	1,721.96
tblVehicleEF	MHD	1,072.80	1,131.13
tblVehicleEF	MHD	9.85	9.48
tblVehicleEF	MHD	0.01	0.26
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	7.8510e-003	6.7670e-003
tblVehicleEF	MHD	0.45	8.89
tblVehicleEF	MHD	1.33	0.73
tblVehicleEF	MHD	1.65	1.18
tblVehicleEF	MHD	3.0400e-004	0.01
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	6.6970e-003	6.9530e-003
tblVehicleEF	MHD	1.2100e-004	1.1300e-004
tblVehicleEF	MHD	2.9100e-004	0.01
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.4000e-003	6.6410e-003
tblVehicleEF	MHD	1.1100e-004	1.0400e-004
tblVehicleEF	MHD	5.5800e-004	0.55
tblVehicleEF	MHD	0.02	6.3370e-003
tblVehicleEF	MHD	0.02	0.37
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	7.2800e-004	0.02
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.7000e-005	9.4000e-005

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MHD	5.5800e-004	0.55
tblVehicleEF	MHD	0.02	6.3370e-003
tblVehicleEF	MHD	0.03	0.68
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	4.2670e-003	0.28
tblVehicleEF	MHD	1.7620e-003	0.02
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.50	11.28
tblVehicleEF	MHD	0.23	0.56
tblVehicleEF	MHD	1.13	1.58
tblVehicleEF	MHD	76.48	1,887.62
tblVehicleEF	MHD	1,072.79	1,285.82
tblVehicleEF	MHD	10.01	12.26
tblVehicleEF	MHD	0.01	0.28
tblVehicleEF	MHD	0.13	0.15
tblVehicleEF	MHD	8.2360e-003	8.5840e-003
tblVehicleEF	MHD	0.47	10.83
tblVehicleEF	MHD	1.38	1.19
tblVehicleEF	MHD	1.66	1.30
tblVehicleEF	MHD	4.2900e-004	0.03
tblVehicleEF	MHD	0.13	0.05
tblVehicleEF	MHD	6.6970e-003	0.01
tblVehicleEF	MHD	1.2100e-004	1.5600e-004
tblVehicleEF	MHD	4.1000e-004	0.03
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.4000e-003	0.01
tblVehicleEF	MHD	1.1100e-004	1.4300e-004

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MHD	3.4300e-004	0.83
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.46
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.02	0.07
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	7.2600e-004	0.02
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.9000e-005	1.2100e-004
tblVehicleEF	MHD	3.4300e-004	0.83
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.03	0.82
tblVehicleEF	MHD	0.02	0.07
tblVehicleEF	MHD	0.02	0.07
tblVehicleEF	MHD	0.06	0.08
tblVehicleEF	OBUS	8.7240e-003	0.26
tblVehicleEF	OBUS	7.8750e-003	0.05
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.62	9.17
tblVehicleEF	OBUS	0.88	1.04
tblVehicleEF	OBUS	2.56	2.76
tblVehicleEF	OBUS	87.42	1,193.58
tblVehicleEF	OBUS	1,476.82	1,469.43
tblVehicleEF	OBUS	19.88	20.95
tblVehicleEF	OBUS	0.01	0.15
tblVehicleEF	OBUS	0.11	0.12
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.34	3.95
tblVehicleEF	OBUS	1.22	1.01

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	OBUS	0.77	0.69
tblVehicleEF	OBUS	1.1700e-004	4.6030e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.7290e-003	0.02
tblVehicleEF	OBUS	2.5400e-004	2.3600e-004
tblVehicleEF	OBUS	1.1200e-004	4.3990e-003
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.3700e-003	0.02
tblVehicleEF	OBUS	2.3400e-004	2.1700e-004
tblVehicleEF	OBUS	2.0040e-003	2.46
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.83
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	0.12	0.13
tblVehicleEF	OBUS	8.3200e-004	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.9700e-004	2.0700e-004
tblVehicleEF	OBUS	2.0040e-003	2.46
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.07	1.22
tblVehicleEF	OBUS	0.06	0.13
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	0.13	0.14
tblVehicleEF	OBUS	8.8120e-003	0.26
tblVehicleEF	OBUS	8.0900e-003	0.05
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.61	9.20
tblVehicleEF	OBUS	0.90	1.03

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	OBUS	2.39	2.74
tblVehicleEF	OBUS	86.43	1,193.76
tblVehicleEF	OBUS	1,476.86	1,468.06
tblVehicleEF	OBUS	19.60	20.88
tblVehicleEF	OBUS	0.01	0.15
tblVehicleEF	OBUS	0.11	0.12
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.32	3.91
tblVehicleEF	OBUS	1.16	0.99
tblVehicleEF	OBUS	0.76	0.69
tblVehicleEF	OBUS	1.0400e-004	4.5380e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.7290e-003	0.02
tblVehicleEF	OBUS	2.5400e-004	2.3500e-004
tblVehicleEF	OBUS	9.9000e-005	4.3370e-003
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.3700e-003	0.02
tblVehicleEF	OBUS	2.3400e-004	2.1600e-004
tblVehicleEF	OBUS	2.8130e-003	2.51
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.83
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	8.2300e-004	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.9400e-004	2.0600e-004
tblVehicleEF	OBUS	2.8130e-003	2.51
tblVehicleEF	OBUS	0.03	0.03

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tblVehicleEF	OBUS	0.07	1.22
tblVehicleEF	OBUS	0.06	0.13
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	0.12	0.14
tblVehicleEF	OBUS	8.6180e-003	0.26
tblVehicleEF	OBUS	7.7810e-003	0.05
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.62	8.66
tblVehicleEF	OBUS	0.87	1.54
tblVehicleEF	OBUS	2.63	3.36
tblVehicleEF	OBUS	88.77	1,099.60
tblVehicleEF	OBUS	1,476.80	1,620.27
tblVehicleEF	OBUS	20.01	24.35
tblVehicleEF	OBUS	0.01	0.13
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.37	3.99
tblVehicleEF	OBUS	1.22	1.19
tblVehicleEF	OBUS	0.78	0.69
tblVehicleEF	OBUS	1.3500e-004	6.0400e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.7290e-003	0.02
tblVehicleEF	OBUS	2.5400e-004	2.7700e-004
tblVehicleEF	OBUS	1.2900e-004	5.7740e-003
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.3700e-003	0.02
tblVehicleEF	OBUS	2.3400e-004	2.5500e-004
tblVehicleEF	OBUS	1.9500e-003	2.53
tblVehicleEF	OBUS	0.03	0.03

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tblVehicleEF	OBUS	0.05	0.80
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.10	0.11
tblVehicleEF	OBUS	0.12	0.16
tblVehicleEF	OBUS	8.4500e-004	0.01
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	1.9800e-004	2.4100e-004
tblVehicleEF	OBUS	1.9500e-003	2.53
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.07	1.20
tblVehicleEF	OBUS	0.06	0.17
tblVehicleEF	OBUS	0.10	0.11
tblVehicleEF	OBUS	0.13	0.17
tblVehicleEF	SBUS	0.03	0.24
tblVehicleEF	SBUS	7.7010e-003	0.03
tblVehicleEF	SBUS	2.8170e-003	2.9830e-003
tblVehicleEF	SBUS	1.44	7.19
tblVehicleEF	SBUS	0.60	0.81
tblVehicleEF	SBUS	0.42	0.40
tblVehicleEF	SBUS	330.59	2,099.51
tblVehicleEF	SBUS	1,067.70	960.38
tblVehicleEF	SBUS	2.21	2.07
tblVehicleEF	SBUS	0.05	0.32
tblVehicleEF	SBUS	0.15	0.13
tblVehicleEF	SBUS	2.1900e-003	2.0080e-003
tblVehicleEF	SBUS	3.81	21.13
tblVehicleEF	SBUS	6.60	3.27
tblVehicleEF	SBUS	0.73	0.42
tblVehicleEF	SBUS	4.5360e-003	0.02

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tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.02
tblVehicleEF	SBUS	3.6000e-005	2.6000e-005
tblVehicleEF	SBUS	4.3400e-003	0.02
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.8100e-003	2.7230e-003
tblVehicleEF	SBUS	0.04	0.02
tblVehicleEF	SBUS	3.3000e-005	2.4000e-005
tblVehicleEF	SBUS	3.4400e-004	0.10
tblVehicleEF	SBUS	3.7250e-003	5.9700e-003
tblVehicleEF	SBUS	0.15	0.53
tblVehicleEF	SBUS	0.11	0.07
tblVehicleEF	SBUS	7.3780e-003	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	3.1360e-003	0.02
tblVehicleEF	SBUS	0.01	9.0850e-003
tblVehicleEF	SBUS	2.2000e-005	2.0000e-005
tblVehicleEF	SBUS	3.4400e-004	0.10
tblVehicleEF	SBUS	3.7250e-003	5.9700e-003
tblVehicleEF	SBUS	0.21	0.86
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	7.3780e-003	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.03	0.24
tblVehicleEF	SBUS	7.7920e-003	0.03
tblVehicleEF	SBUS	2.4510e-003	2.9490e-003
tblVehicleEF	SBUS	1.40	7.18
tblVehicleEF	SBUS	0.60	0.81

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	SBUS	0.33	0.39
tblVehicleEF	SBUS	341.22	2,104.57
tblVehicleEF	SBUS	1,067.71	959.76
tblVehicleEF	SBUS	2.06	2.05
tblVehicleEF	SBUS	0.05	0.32
tblVehicleEF	SBUS	0.15	0.13
tblVehicleEF	SBUS	2.1020e-003	2.0090e-003
tblVehicleEF	SBUS	3.90	21.12
tblVehicleEF	SBUS	6.36	3.23
tblVehicleEF	SBUS	0.73	0.42
tblVehicleEF	SBUS	3.8310e-003	0.02
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.02
tblVehicleEF	SBUS	3.6000e-005	2.6000e-005
tblVehicleEF	SBUS	3.6660e-003	0.02
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.8100e-003	2.7230e-003
tblVehicleEF	SBUS	0.04	0.02
tblVehicleEF	SBUS	3.3000e-005	2.4000e-005
tblVehicleEF	SBUS	4.8600e-004	0.11
tblVehicleEF	SBUS	3.8720e-003	5.9570e-003
tblVehicleEF	SBUS	0.15	0.53
tblVehicleEF	SBUS	0.11	0.07
tblVehicleEF	SBUS	6.3630e-003	0.14
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	3.2360e-003	0.02
tblVehicleEF	SBUS	0.01	9.0790e-003
tblVehicleEF	SBUS	4.8600e-004	0.11

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	SBUS	3.8720e-003	5.9570e-003
tblVehicleEF	SBUS	0.21	0.86
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	6.3630e-003	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.03	0.20
tblVehicleEF	SBUS	7.6590e-003	0.03
tblVehicleEF	SBUS	2.9980e-003	3.5710e-003
tblVehicleEF	SBUS	1.50	6.71
tblVehicleEF	SBUS	0.59	1.34
tblVehicleEF	SBUS	0.47	0.57
tblVehicleEF	SBUS	315.91	2,191.16
tblVehicleEF	SBUS	1,067.69	1,071.53
tblVehicleEF	SBUS	2.29	2.33
tblVehicleEF	SBUS	0.05	0.34
tblVehicleEF	SBUS	0.15	0.15
tblVehicleEF	SBUS	2.2480e-003	1.8230e-003
tblVehicleEF	SBUS	3.67	26.46
tblVehicleEF	SBUS	6.57	5.32
tblVehicleEF	SBUS	0.73	0.35
tblVehicleEF	SBUS	5.5100e-003	0.04
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	3.6000e-005	2.8000e-005
tblVehicleEF	SBUS	5.2720e-003	0.04
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.8100e-003	2.7500e-003
tblVehicleEF	SBUS	0.04	0.02

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tblVehicleEF	SBUS	3.3000e-005	2.6000e-005
tblVehicleEF	SBUS	3.4300e-004	0.13
tblVehicleEF	SBUS	4.0120e-003	8.5790e-003
tblVehicleEF	SBUS	0.15	0.52
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	9.6140e-003	0.20
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.9970e-003	0.02
tblVehicleEF	SBUS	3.4300e-004	0.13
tblVehicleEF	SBUS	4.0120e-003	8.5790e-003
tblVehicleEF	SBUS	0.21	0.82
tblVehicleEF	SBUS	0.13	0.16
tblVehicleEF	SBUS	9.6140e-003	0.20
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	UBUS	4.89	2.27
tblVehicleEF	UBUS	0.02	5.3340e-003
tblVehicleEF	UBUS	38.17	29.02
tblVehicleEF	UBUS	1.23	0.76
tblVehicleEF	UBUS	1,897.59	1,072.80
tblVehicleEF	UBUS	13.87	5.22
tblVehicleEF	UBUS	0.31	0.20
tblVehicleEF	UBUS	0.01	7.7200e-003
tblVehicleEF	UBUS	0.41	0.16
tblVehicleEF	UBUS	0.13	0.05
tblVehicleEF	UBUS	0.07	0.10
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1030e-003	3.0700e-004
tblVehicleEF	UBUS	1.7700e-004	2.6000e-005
tblVehicleEF	UBUS	0.03	0.03

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9470e-003	2.8900e-004
tblVehicleEF	UBUS	1.6300e-004	2.4000e-005
tblVehicleEF	UBUS	4.7400e-004	0.06
tblVehicleEF	UBUS	5.1760e-003	4.5170e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	7.8400e-004	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	3.7080e-003	9.5100e-004
tblVehicleEF	UBUS	1.3700e-004	5.2000e-005
tblVehicleEF	UBUS	4.7400e-004	0.06
tblVehicleEF	UBUS	5.1760e-003	4.5170e-003
tblVehicleEF	UBUS	5.00	2.32
tblVehicleEF	UBUS	7.8400e-004	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	4.89	2.29
tblVehicleEF	UBUS	0.01	5.2980e-003
tblVehicleEF	UBUS	38.17	29.21
tblVehicleEF	UBUS	1.06	0.75
tblVehicleEF	UBUS	1,897.60	1,072.31
tblVehicleEF	UBUS	13.58	5.21
tblVehicleEF	UBUS	0.31	0.20
tblVehicleEF	UBUS	0.01	7.7000e-003
tblVehicleEF	UBUS	0.40	0.15
tblVehicleEF	UBUS	0.12	0.05
tblVehicleEF	UBUS	0.07	0.10
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1030e-003	3.0800e-004
tblVehicleEF	UBUS	1.7700e-004	2.6000e-005

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9470e-003	2.9000e-004
tblVehicleEF	UBUS	1.6300e-004	2.4000e-005
tblVehicleEF	UBUS	6.8100e-004	0.06
tblVehicleEF	UBUS	5.6350e-003	4.5490e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	7.1600e-004	0.01
tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	3.7080e-003	9.5100e-004
tblVehicleEF	UBUS	1.3400e-004	5.2000e-005
tblVehicleEF	UBUS	6.8100e-004	0.06
tblVehicleEF	UBUS	5.6350e-003	4.5490e-003
tblVehicleEF	UBUS	5.00	2.34
tblVehicleEF	UBUS	7.1600e-004	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	4.89	2.14
tblVehicleEF	UBUS	0.02	8.1080e-003
tblVehicleEF	UBUS	38.17	30.34
tblVehicleEF	UBUS	1.31	0.80
tblVehicleEF	UBUS	1,897.59	1,438.99
tblVehicleEF	UBUS	14.00	5.83
tblVehicleEF	UBUS	0.31	0.27
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.41	0.32
tblVehicleEF	UBUS	0.13	0.08
tblVehicleEF	UBUS	0.07	0.11
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1030e-003	2.9200e-004

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	UBUS	1.7700e-004	2.1000e-005
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9470e-003	2.7500e-004
tblVehicleEF	UBUS	1.6300e-004	1.9000e-005
tblVehicleEF	UBUS	4.4100e-004	0.09
tblVehicleEF	UBUS	6.0090e-003	8.2650e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	9.5000e-004	0.01
tblVehicleEF	UBUS	0.06	0.03
tblVehicleEF	UBUS	3.7080e-003	1.0580e-003
tblVehicleEF	UBUS	1.3900e-004	5.8000e-005
tblVehicleEF	UBUS	4.4100e-004	0.09
tblVehicleEF	UBUS	6.0090e-003	8.2650e-003
tblVehicleEF	UBUS	5.00	2.19
tblVehicleEF	UBUS	9.5000e-004	0.01
tblVehicleEF	UBUS	0.07	0.03

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.3385	2.7682	2.8096	0.0116	0.0208	0.1022	0.1230	5.5900e-003	0.0972	0.1027	0.0000	1,012.2719	1,012.2719	0.2199	3.7800e-003	1,018.8966
2024	0.2336	1.8274	1.9898	8.2700e-003	0.0149	0.0670	0.0818	3.9900e-003	0.0635	0.0675	0.0000	723.1318	723.1318	0.1571	2.6500e-003	727.8483
Maximum	**0.3385**	**2.7682**	**2.8096**	**0.0116**	**0.0208**	**0.1022**	**0.1230**	**5.5900e-003**	**0.0972**	**0.1027**	**0.0000**	**1,012.2719**	**1,012.2719**	**0.2199**	**3.7800e-003**	**1,018.8966**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1413	0.7173	4.6457	0.0116	0.0208	0.0220	0.0428	5.5900e-003	0.0214	0.0270	0.0000	1,012.2707	1,012.2707	0.2199	3.7800e-003	1,018.8954
2024	0.1005	0.5041	3.3170	8.2700e-003	0.0149	0.0156	0.0304	3.9900e-003	0.0152	0.0192	0.0000	723.1310	723.1310	0.1571	2.6500e-003	727.8474
Maximum	**0.1413**	**0.7173**	**4.6457**	**0.0116**	**0.0208**	**0.0220**	**0.0428**	**5.5900e-003**	**0.0214**	**0.0270**	**0.0000**	**1,012.2707**	**1,012.2707**	**0.2199**	**3.7800e-003**	**1,018.8954**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**57.74**	**73.42**	**-65.91**	**0.00**	**0.00**	**77.81**	**64.26**	**0.00**	**77.19**	**72.85**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-2-2023**	**4-1-2023**	0.7683	0.2124
2	**4-2-2023**	**7-1-2023**	0.7762	0.2141
3	**7-2-2023**	**10-1-2023**	0.7847	0.2165
4	**10-2-2023**	**1-1-2024**	0.7848	0.2171
5	**1-2-2024**	**4-1-2024**	0.7215	0.2117
6	**4-2-2024**	**7-1-2024**	0.7208	0.2111
7	**7-2-2024**	**9-30-2024**	0.6099	0.1786
		Highest	0.7848	0.2171

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7380	1.0000e-005	1.3400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-003	2.6000e-003	1.0000e-005	0.0000	2.7700e-003
Energy	9.0500e-003	0.0823	0.0691	4.9000e-004		6.2500e-003	6.2500e-003		6.2500e-003	6.2500e-003	0.0000	381.4763	381.4763	0.0196	3.8000e-003	383.0989
Mobile	0.7335	0.4258	3.1084	7.1400e-003	0.6489	5.2900e-003	0.6542	0.1618	4.9400e-003	0.1667	0.0000	661.2497	661.2497	0.0361	0.0299	671.0487
Waste						0.0000	0.0000		0.0000	0.0000	36.6744	0.0000	36.6744	2.1674	0.0000	90.8592
Water						0.0000	0.0000		0.0000	0.0000	10.6893	107.4556	118.1449	1.1045	0.0267	153.7188
Total	**1.4805**	**0.5081**	**3.1789**	**7.6300e-003**	**0.6489**	**0.0115**	**0.6605**	**0.1618**	**0.0112**	**0.1730**	**47.3637**	**1,150.1842**	**1,197.5478**	**3.3275**	**0.0604**	**1,298.7284**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7380	1.0000e-005	1.3400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-003	2.6000e-003	1.0000e-005	0.0000	2.7700e-003
Energy	9.0500e-003	0.0823	0.0691	4.9000e-004		6.2500e-003	6.2500e-003		6.2500e-003	6.2500e-003	0.0000	381.4763	381.4763	0.0196	3.8000e-003	383.0989
Mobile	0.7335	0.4258	3.1084	7.1400e-003	0.6489	5.2900e-003	0.6542	0.1618	4.9400e-003	0.1667	0.0000	661.2497	661.2497	0.0361	0.0299	671.0487
Waste						0.0000	0.0000		0.0000	0.0000	36.6744	0.0000	36.6744	2.1674	0.0000	90.8592
Water						0.0000	0.0000		0.0000	0.0000	10.6893	107.4556	118.1449	1.1045	0.0267	153.7188
Total	**1.4805**	**0.5081**	**3.1789**	**7.6300e-003**	**0.6489**	**0.0115**	**0.6605**	**0.1618**	**0.0112**	**0.1730**	**47.3637**	**1,150.1842**	**1,197.5478**	**3.3275**	**0.0604**	**1,298.7284**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Lot 20	Building Construction	1/2/2023	10/16/2023	7	288	
2	Dry Dock Infrastructure	Building Construction	10/17/2023	9/16/2024	7	336	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Lot 20	Air Compressors	1	8.00	78	0.48
Lot 20	Bore/Drill Rigs	1	4.00	595	0.50
Lot 20	Bore/Drill Rigs	1	4.00	595	0.50
Lot 20	Cranes	1	8.00	282	0.29
Lot 20	Crushing/Proc. Equipment	1	8.00	10	0.78
Lot 20	Excavators	1	4.00	242	0.38
Lot 20	Off-Highway Trucks	1	2.00	385	0.38
Lot 20	Other Construction Equipment	1	4.00	595	0.50
Lot 20	Pumps	1	8.00	225	0.74
Dry Dock Infrastructure	Air Compressors	1	8.00	78	0.48
Dry Dock Infrastructure	Bore/Drill Rigs	1	4.00	595	0.50
Dry Dock Infrastructure	Bore/Drill Rigs	1	4.00	595	0.50
Dry Dock Infrastructure	Cranes	1	8.00	282	0.29
Dry Dock Infrastructure	Crushing/Proc. Equipment	1	8.00	10	0.78
Dry Dock Infrastructure	Excavators	1	4.00	242	0.38
Dry Dock Infrastructure	Off-Highway Trucks	1	2.00	385	0.38
Dry Dock Infrastructure	Other Construction Equipment	1	4.00	595	0.50
Dry Dock Infrastructure	Pumps	1	8.00	225	0.74

Trips and VMT

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Lot 20	9	10.00	0.00	574.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Dry Dock Infrastructure	9	10.00	0.00	670.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Lot 20 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2633	2.1486	2.1798	8.8900e-003		0.0805	0.0805		0.0765	0.0765	0.0000	774.5548	774.5548	0.1728	0.0000	778.8756
Total	**0.2633**	**2.1486**	**2.1798**	**8.8900e-003**		**0.0805**	**0.0805**		**0.0765**	**0.0765**	**0.0000**	**774.5548**	**774.5548**	**0.1728**	**0.0000**	**778.8756**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Lot 20 - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.3000e-004	0.0390	0.0104	1.7000e-004	4.9200e-003	3.2000e-004	5.2300e-003	1.3500e-003	3.1000e-004	1.6600e-003	0.0000	17.2242	17.2242	8.7000e-004	2.7400e-003	18.0621
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8900e-003	2.6900e-003	0.0328	1.0000e-004	0.0116	6.0000e-005	0.0116	3.0700e-003	6.0000e-005	3.1300e-003	0.0000	9.1377	9.1377	2.7000e-004	2.5000e-004	9.2204
Total	**4.5200e-003**	**0.0416**	**0.0432**	**2.7000e-004**	**0.0165**	**3.8000e-004**	**0.0168**	**4.4200e-003**	**3.7000e-004**	**4.7900e-003**	**0.0000**	**26.3618**	**26.3618**	**1.1400e-003**	**2.9900e-003**	**27.2825**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1073	0.5259	3.6326	8.8900e-003		0.0170	0.0170		0.0166	0.0166	0.0000	774.5539	774.5539	0.1728	0.0000	778.8746
Total	**0.1073**	**0.5259**	**3.6326**	**8.8900e-003**		**0.0170**	**0.0170**		**0.0166**	**0.0166**	**0.0000**	**774.5539**	**774.5539**	**0.1728**	**0.0000**	**778.8746**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Lot 20 - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.3000e-004	0.0390	0.0104	1.7000e-004	4.9200e-003	3.2000e-004	5.2300e-003	1.3500e-003	3.1000e-004	1.6600e-003	0.0000	17.2242	17.2242	8.7000e-004	2.7400e-003	18.0621
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8900e-003	2.6900e-003	0.0328	1.0000e-004	0.0116	6.0000e-005	0.0116	3.0700e-003	6.0000e-005	3.1300e-003	0.0000	9.1377	9.1377	2.7000e-004	2.5000e-004	9.2204
Total	**4.5200e-003**	**0.0416**	**0.0432**	**2.7000e-004**	**0.0165**	**3.8000e-004**	**0.0168**	**4.4200e-003**	**3.7000e-004**	**4.7900e-003**	**0.0000**	**26.3618**	**26.3618**	**1.1400e-003**	**2.9900e-003**	**27.2825**

3.3 Dry Dock Infrastructure - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0695	0.5670	0.5752	2.3500e-003		0.0212	0.0212		0.0202	0.0202	0.0000	204.3964	204.3964	0.0456	0.0000	205.5366
Total	**0.0695**	**0.5670**	**0.5752**	**2.3500e-003**		**0.0212**	**0.0212**		**0.0202**	**0.0202**	**0.0000**	**204.3964**	**204.3964**	**0.0456**	**0.0000**	**205.5366**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Dry Dock Infrastructure - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7000e-004	0.0103	2.7400e-003	5.0000e-005	1.3000e-003	8.0000e-005	1.3800e-003	3.6000e-004	8.0000e-005	4.4000e-004	0.0000	4.5475	4.5475	2.3000e-004	7.2000e-004	4.7688
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0300e-003	7.1000e-004	8.6600e-003	3.0000e-005	3.0500e-003	2.0000e-005	3.0600e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.4113	2.4113	7.0000e-005	7.0000e-005	2.4332
Total	**1.2000e-003**	**0.0110**	**0.0114**	**8.0000e-005**	**4.3500e-003**	**1.0000e-004**	**4.4400e-003**	**1.1700e-003**	**1.0000e-004**	**1.2700e-003**	**0.0000**	**6.9589**	**6.9589**	**3.0000e-004**	**7.9000e-004**	**7.2019**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0283	0.1388	0.9586	2.3500e-003		4.4900e-003	4.4900e-003		4.3800e-003	4.3800e-003	0.0000	204.3962	204.3962	0.0456	0.0000	205.5364
Total	**0.0283**	**0.1388**	**0.9586**	**2.3500e-003**		**4.4900e-003**	**4.4900e-003**		**4.3800e-003**	**4.3800e-003**	**0.0000**	**204.3962**	**204.3962**	**0.0456**	**0.0000**	**205.5364**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Dry Dock Infrastructure - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7000e-004	0.0103	2.7400e-003	5.0000e-005	1.3000e-003	8.0000e-005	1.3800e-003	3.6000e-004	8.0000e-005	4.4000e-004	0.0000	4.5475	4.5475	2.3000e-004	7.2000e-004	4.7688
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0300e-003	7.1000e-004	8.6600e-003	3.0000e-005	3.0500e-003	2.0000e-005	3.0600e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.4113	2.4113	7.0000e-005	7.0000e-005	2.4332
Total	**1.2000e-003**	**0.0110**	**0.0114**	**8.0000e-005**	**4.3500e-003**	**1.0000e-004**	**4.4400e-003**	**1.1700e-003**	**1.0000e-004**	**1.2700e-003**	**0.0000**	**6.9589**	**6.9589**	**3.0000e-004**	**7.9000e-004**	**7.2019**

3.3 Dry Dock Infrastructure - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2297	1.7903	1.9526	8.0300e-003		0.0666	0.0666		0.0632	0.0632	0.0000	699.8691	699.8691	0.1561	0.0000	703.7709
Total	**0.2297**	**1.7903**	**1.9526**	**8.0300e-003**		**0.0666**	**0.0666**		**0.0632**	**0.0632**	**0.0000**	**699.8691**	**699.8691**	**0.1561**	**0.0000**	**703.7709**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Dry Dock Infrastructure - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.7000e-004	0.0349	9.4900e-003	1.5000e-004	4.4400e-003	2.9000e-004	4.7300e-003	1.2200e-003	2.8000e-004	1.5000e-003	0.0000	15.2836	15.2836	8.1000e-004	2.4300e-003	16.0286
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-003	2.1900e-003	0.0277	9.0000e-005	0.0104	5.0000e-005	0.0105	2.7700e-003	5.0000e-005	2.8200e-003	0.0000	7.9791	7.9791	2.2000e-004	2.2000e-004	8.0488
Total	**3.8700e-003**	**0.0371**	**0.0372**	**2.4000e-004**	**0.0149**	**3.4000e-004**	**0.0152**	**3.9900e-003**	**3.3000e-004**	**4.3200e-003**	**0.0000**	**23.2627**	**23.2627**	**1.0300e-003**	**2.6500e-003**	**24.0774**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0966	0.4670	3.2798	8.0300e-003		0.0152	0.0152		0.0149	0.0149	0.0000	699.8683	699.8683	0.1561	0.0000	703.7701
Total	**0.0966**	**0.4670**	**3.2798**	**8.0300e-003**		**0.0152**	**0.0152**		**0.0149**	**0.0149**	**0.0000**	**699.8683**	**699.8683**	**0.1561**	**0.0000**	**703.7701**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Dry Dock Infrastructure - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.7000e-004	0.0349	9.4900e-003	1.5000e-004	4.4400e-003	2.9000e-004	4.7300e-003	1.2200e-003	2.8000e-004	1.5000e-003	0.0000	15.2836	15.2836	8.1000e-004	2.4300e-003	16.0286
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-003	2.1900e-003	0.0277	9.0000e-005	0.0104	5.0000e-005	0.0105	2.7700e-003	5.0000e-005	2.8200e-003	0.0000	7.9791	7.9791	2.2000e-004	2.2000e-004	8.0488
Total	**3.8700e-003**	**0.0371**	**0.0372**	**2.4000e-004**	**0.0149**	**3.4000e-004**	**0.0152**	**3.9900e-003**	**3.3000e-004**	**4.3200e-003**	**0.0000**	**23.2627**	**23.2627**	**1.0300e-003**	**2.6500e-003**	**24.0774**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7335	0.4258	3.1084	7.1400e-003	0.6489	5.2900e-003	0.6542	0.1618	4.9400e-003	0.1667	0.0000	661.2497	661.2497	0.0361	0.0299	671.0487
Unmitigated	0.7335	0.4258	3.1084	7.1400e-003	0.6489	5.2900e-003	0.6542	0.1618	4.9400e-003	0.1667	0.0000	661.2497	661.2497	0.0361	0.0299	671.0487

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	572.60	935.39	741.61	1,893,517	1,893,517
Total	572.60	935.39	741.61	1,893,517	1,893,517

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	291.9089	291.9089	0.0178	2.1600e-003	292.9993
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	291.9089	291.9089	0.0178	2.1600e-003	292.9993
NaturalGas Mitigated	9.0500e-003	0.0823	0.0691	4.9000e-004		6.2500e-003	6.2500e-003		6.2500e-003	6.2500e-003	0.0000	89.5674	89.5674	1.7200e-003	1.6400e-003	90.0996
NaturalGas Unmitigated	9.0500e-003	0.0823	0.0691	4.9000e-004		6.2500e-003	6.2500e-003		6.2500e-003	6.2500e-003	0.0000	89.5674	89.5674	1.7200e-003	1.6400e-003	90.0996

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Heavy Industry	1.67843e+006	9.0500e-003	0.0823	0.0691	4.9000e-004		6.2500e-003	6.2500e-003		6.2500e-003	6.2500e-003	0.0000	89.5674	89.5674	1.7200e-003	1.6400e-003	90.0996
Total		**9.0500e-003**	**0.0823**	**0.0691**	**4.9000e-004**		**6.2500e-003**	**6.2500e-003**		**6.2500e-003**	**6.2500e-003**	**0.0000**	**89.5674**	**89.5674**	**1.7200e-003**	**1.6400e-003**	**90.0996**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Heavy Industry	1.67843e+006	9.0500e-003	0.0823	0.0691	4.9000e-004		6.2500e-003	6.2500e-003		6.2500e-003	6.2500e-003	0.0000	89.5674	89.5674	1.7200e-003	1.6400e-003	90.0996
Total		**9.0500e-003**	**0.0823**	**0.0691**	**4.9000e-004**		**6.2500e-003**	**6.2500e-003**		**6.2500e-003**	**6.2500e-003**	**0.0000**	**89.5674**	**89.5674**	**1.7200e-003**	**1.6400e-003**	**90.0996**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	1.1918e+006	291.9089	0.0178	2.1600e-003	292.9993
Total		**291.9089**	**0.0178**	**2.1600e-003**	**292.9993**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	1.1918e+006	291.9089	0.0178	2.1600e-003	292.9993
Total		**291.9089**	**0.0178**	**2.1600e-003**	**292.9993**

6.0 Area Detail

6.1 Mitigation Measures Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7380	1.0000e-005	1.3400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-003	2.6000e-003	1.0000e-005	0.0000	2.7700e-003
Unmitigated	0.7380	1.0000e-005	1.3400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-003	2.6000e-003	1.0000e-005	0.0000	2.7700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1688					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5690					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-003	2.6000e-003	1.0000e-005	0.0000	2.7700e-003
Total	**0.7380**	**1.0000e-005**	**1.3400e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.6000e-003**	**2.6000e-003**	**1.0000e-005**	**0.0000**	**2.7700e-003**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1688					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5690					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-003	2.6000e-003	1.0000e-005	0.0000	2.7700e-003
Total	**0.7380**	**1.0000e-005**	**1.3400e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.6000e-003**	**2.6000e-003**	**1.0000e-005**	**0.0000**	**2.7700e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	118.1449	1.1045	0.0267	153.7188
Unmitigated	118.1449	1.1045	0.0267	153.7188

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	33.6931 / 0	118.1449	1.1045	0.0267	153.7188
Total		**118.1449**	**1.1045**	**0.0267**	**153.7188**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	33.6931 / 0	118.1449	1.1045	0.0267	153.7188
Total		**118.1449**	**1.1045**	**0.0267**	**153.7188**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	36.6744	2.1674	0.0000	90.8592
Unmitigated	36.6744	2.1674	0.0000	90.8592

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	180.67	36.6744	2.1674	0.0000	90.8592
Total		**36.6744**	**2.1674**	**0.0000**	**90.8592**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	180.67	36.6744	2.1674	0.0000	90.8592
Total		**36.6744**	**2.1674**	**0.0000**	**90.8592**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	145.70	1000sqft	3.34	145,697.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2025
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Existing floating dry dock is approximately 142,680 square feet, mooring dolphin is 1,456 square feet, approach pier is 1,561 square feet. Total = 145,697 sq ft.

Construction Phase - Client provided information. Phase 1 (Jan 2, 2023 - Sept 16, 2024): Removal and replacement of the existing floating dry dock and construction of supporting infrastructure.

Off-road Equipment - Client supplied equipment list

Off-road Equipment - Client supplied equipment list

Trips and VMT - 2 haul truck trips per day per client. Most materials will be transported via water access.

Vehicle Trips -

Vehicle Emission Factors - EMFAC 2021 Emission Factors

Vehicle Emission Factors - EMFAC 2021 Emission Factors

Vehicle Emission Factors - EMFAC 2021 Emission Factors

Area Coating -

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Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Mitigation: at least 90% Tier 4 engines.

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	230.00	288.00
tblConstructionPhase	NumDays	230.00	336.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblLandUse	LandUseSquareFeet	145,700.00	145,697.00
tblOffRoadEquipment	HorsePower	231.00	282.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	HorsePower	231.00	282.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	85.00	10.00
tblOffRoadEquipment	HorsePower	85.00	10.00
tblOffRoadEquipment	HorsePower	158.00	242.00
tblOffRoadEquipment	HorsePower	158.00	242.00
tblOffRoadEquipment	HorsePower	402.00	385.00
tblOffRoadEquipment	HorsePower	402.00	385.00
tblOffRoadEquipment	HorsePower	172.00	595.00
tblOffRoadEquipment	HorsePower	172.00	595.00
tblOffRoadEquipment	HorsePower	84.00	225.00
tblOffRoadEquipment	HorsePower	84.00	225.00
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	574.00
tblTripsAndVMT	HaulingTripNumber	0.00	670.00
tblTripsAndVMT	VendorTripNumber	24.00	0.00
tblTripsAndVMT	VendorTripNumber	24.00	0.00
tblTripsAndVMT	WorkerTripNumber	61.00	10.00
tblTripsAndVMT	WorkerTripNumber	61.00	10.00
tblVehicleEF	HHD	0.03	0.71
tblVehicleEF	HHD	0.08	0.06
tblVehicleEF	HHD	6.64	76.55
tblVehicleEF	HHD	0.51	0.50

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	HHD	8.2890e-003	2.5080e-003
tblVehicleEF	HHD	1,078.46	11,481.16
tblVehicleEF	HHD	1,383.23	1,449.81
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	0.17	1.82
tblVehicleEF	HHD	0.22	0.23
tblVehicleEF	HHD	4.0000e-006	2.0000e-006
tblVehicleEF	HHD	5.65	63.27
tblVehicleEF	HHD	2.60	1.66
tblVehicleEF	HHD	2.38	2.66
tblVehicleEF	HHD	2.8750e-003	0.03
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	2.7510e-003	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8700e-003	8.8370e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	3.0000e-006	3.0070e-003
tblVehicleEF	HHD	1.6600e-004	4.2000e-005
tblVehicleEF	HHD	0.45	5.14
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	7.0000e-005	1.5500e-004
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	9.9650e-003	0.11
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	3.0000e-006	3.0070e-003
tblVehicleEF	HHD	1.6600e-004	4.2000e-005

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	HHD	0.52	6.33
tblVehicleEF	HHD	0.11	0.08
tblVehicleEF	HHD	7.0000e-005	1.5500e-004
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.74
tblVehicleEF	HHD	0.08	0.06
tblVehicleEF	HHD	6.54	76.53
tblVehicleEF	HHD	0.51	0.52
tblVehicleEF	HHD	7.7910e-003	2.2820e-003
tblVehicleEF	HHD	1,066.26	11,332.25
tblVehicleEF	HHD	1,383.24	1,433.35
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	0.17	1.80
tblVehicleEF	HHD	0.22	0.23
tblVehicleEF	HHD	4.0000e-006	1.0000e-006
tblVehicleEF	HHD	5.40	62.43
tblVehicleEF	HHD	2.50	1.59
tblVehicleEF	HHD	2.38	2.67
tblVehicleEF	HHD	2.5110e-003	0.03
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	2.4020e-003	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8700e-003	8.8380e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	5.0000e-006	2.5580e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	HHD	1.7100e-004	3.4000e-005
tblVehicleEF	HHD	0.47	5.14
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	6.9000e-005	1.3900e-004
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	9.8520e-003	0.10
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	5.0000e-006	2.5580e-003
tblVehicleEF	HHD	1.7100e-004	3.4000e-005
tblVehicleEF	HHD	0.54	6.36
tblVehicleEF	HHD	0.11	0.08
tblVehicleEF	HHD	6.9000e-005	1.3900e-004
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.80
tblVehicleEF	HHD	0.08	0.08
tblVehicleEF	HHD	6.77	80.34
tblVehicleEF	HHD	0.51	0.57
tblVehicleEF	HHD	8.5100e-003	5.0770e-003
tblVehicleEF	HHD	1,095.31	13,127.44
tblVehicleEF	HHD	1,383.23	1,652.70
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	0.17	2.08
tblVehicleEF	HHD	0.22	0.26
tblVehicleEF	HHD	4.0000e-006	8.0000e-006
tblVehicleEF	HHD	5.99	70.64
tblVehicleEF	HHD	2.59	2.06
tblVehicleEF	HHD	2.38	2.75
tblVehicleEF	HHD	3.3780e-003	0.04

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	3.2320e-003	0.04
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8700e-003	8.8310e-003
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	3.0000e-006	8.0720e-003
tblVehicleEF	HHD	1.8700e-004	1.1600e-004
tblVehicleEF	HHD	0.41	4.92
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	7.7000e-005	3.1900e-004
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	HHD	0.01	0.12
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	3.0000e-006	8.0720e-003
tblVehicleEF	HHD	1.8700e-004	1.1600e-004
tblVehicleEF	HHD	0.47	6.17
tblVehicleEF	HHD	0.11	0.11
tblVehicleEF	HHD	7.7000e-005	3.1900e-004
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	LDA	1.6100e-003	1.9870e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.47	0.57
tblVehicleEF	LDA	1.91	2.34
tblVehicleEF	LDA	236.56	252.96
tblVehicleEF	LDA	48.25	60.27

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDA	3.7570e-003	3.7030e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.15	0.20
tblVehicleEF	LDA	0.04	7.0230e-003
tblVehicleEF	LDA	1.3810e-003	1.2570e-003
tblVehicleEF	LDA	1.6530e-003	1.6670e-003
tblVehicleEF	LDA	0.02	2.4580e-003
tblVehicleEF	LDA	1.2720e-003	1.1560e-003
tblVehicleEF	LDA	1.5200e-003	1.5330e-003
tblVehicleEF	LDA	0.03	1.20
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	5.7850e-003	7.1680e-003
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.17	0.23
tblVehicleEF	LDA	2.3400e-003	2.5010e-003
tblVehicleEF	LDA	4.7700e-004	5.9600e-004
tblVehicleEF	LDA	0.03	1.20
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	8.3980e-003	0.01
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.19	0.25
tblVehicleEF	LDA	1.7530e-003	1.9740e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.53	0.58
tblVehicleEF	LDA	1.58	2.29
tblVehicleEF	LDA	249.66	253.65
tblVehicleEF	LDA	47.65	60.06
tblVehicleEF	LDA	3.5390e-003	3.6470e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.14	0.20
tblVehicleEF	LDA	0.04	7.0210e-003
tblVehicleEF	LDA	1.3810e-003	1.2510e-003
tblVehicleEF	LDA	1.6530e-003	1.6610e-003
tblVehicleEF	LDA	0.02	2.4570e-003
tblVehicleEF	LDA	1.2720e-003	1.1520e-003
tblVehicleEF	LDA	1.5200e-003	1.5270e-003
tblVehicleEF	LDA	0.05	1.22
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	6.2220e-003	7.0860e-003
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.15	0.23
tblVehicleEF	LDA	2.4700e-003	2.5070e-003
tblVehicleEF	LDA	4.7200e-004	5.9400e-004
tblVehicleEF	LDA	0.05	1.22
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	9.0370e-003	0.01
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.16	0.25
tblVehicleEF	LDA	1.5750e-003	2.8490e-003
tblVehicleEF	LDA	0.04	0.07
tblVehicleEF	LDA	0.46	0.70
tblVehicleEF	LDA	2.05	3.25
tblVehicleEF	LDA	234.19	281.69
tblVehicleEF	LDA	48.50	68.09
tblVehicleEF	LDA	3.7810e-003	4.6970e-003
tblVehicleEF	LDA	0.02	0.03

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.16	0.25
tblVehicleEF	LDA	0.04	7.1270e-003
tblVehicleEF	LDA	1.3810e-003	1.6660e-003
tblVehicleEF	LDA	1.6530e-003	2.0740e-003
tblVehicleEF	LDA	0.02	2.4940e-003
tblVehicleEF	LDA	1.2720e-003	1.5340e-003
tblVehicleEF	LDA	1.5200e-003	1.9070e-003
tblVehicleEF	LDA	0.03	1.35
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	5.6880e-003	0.01
tblVehicleEF	LDA	0.03	0.22
tblVehicleEF	LDA	0.18	0.33
tblVehicleEF	LDA	2.3170e-003	2.7840e-003
tblVehicleEF	LDA	4.8000e-004	6.7300e-004
tblVehicleEF	LDA	0.03	1.35
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	8.2580e-003	0.02
tblVehicleEF	LDA	0.03	0.22
tblVehicleEF	LDA	0.19	0.36
tblVehicleEF	LDT1	4.5160e-003	7.4770e-003
tblVehicleEF	LDT1	0.06	0.10
tblVehicleEF	LDT1	0.92	1.41
tblVehicleEF	LDT1	2.15	4.84
tblVehicleEF	LDT1	290.44	340.26
tblVehicleEF	LDT1	60.15	83.40
tblVehicleEF	LDT1	6.4980e-003	9.3350e-003
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.08	0.12

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT1	0.23	0.37
tblVehicleEF	LDT1	0.04	9.2390e-003
tblVehicleEF	LDT1	1.8320e-003	2.1880e-003
tblVehicleEF	LDT1	2.1830e-003	2.7210e-003
tblVehicleEF	LDT1	0.02	3.2340e-003
tblVehicleEF	LDT1	1.6860e-003	2.0130e-003
tblVehicleEF	LDT1	2.0070e-003	2.5020e-003
tblVehicleEF	LDT1	0.09	3.05
tblVehicleEF	LDT1	0.19	0.18
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.09	0.53
tblVehicleEF	LDT1	0.30	0.51
tblVehicleEF	LDT1	2.8740e-003	3.3640e-003
tblVehicleEF	LDT1	5.9500e-004	8.2400e-004
tblVehicleEF	LDT1	0.09	3.05
tblVehicleEF	LDT1	0.19	0.18
tblVehicleEF	LDT1	0.03	0.05
tblVehicleEF	LDT1	0.09	0.53
tblVehicleEF	LDT1	0.33	0.56
tblVehicleEF	LDT1	4.8740e-003	7.4210e-003
tblVehicleEF	LDT1	0.05	0.10
tblVehicleEF	LDT1	1.03	1.43
tblVehicleEF	LDT1	1.77	4.70
tblVehicleEF	LDT1	304.29	341.45
tblVehicleEF	LDT1	59.42	83.03
tblVehicleEF	LDT1	6.0610e-003	9.1450e-003
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.07	0.12
tblVehicleEF	LDT1	0.21	0.37

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT1	0.04	9.2400e-003
tblVehicleEF	LDT1	1.8320e-003	2.1720e-003
tblVehicleEF	LDT1	2.1830e-003	2.7020e-003
tblVehicleEF	LDT1	0.02	3.2340e-003
tblVehicleEF	LDT1	1.6860e-003	1.9980e-003
tblVehicleEF	LDT1	2.0070e-003	2.4850e-003
tblVehicleEF	LDT1	0.14	3.10
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.08	0.53
tblVehicleEF	LDT1	0.26	0.50
tblVehicleEF	LDT1	3.0110e-003	3.3760e-003
tblVehicleEF	LDT1	5.8800e-004	8.2100e-004
tblVehicleEF	LDT1	0.14	3.10
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.03	0.05
tblVehicleEF	LDT1	0.08	0.53
tblVehicleEF	LDT1	0.28	0.54
tblVehicleEF	LDT1	4.4300e-003	0.01
tblVehicleEF	LDT1	0.06	0.13
tblVehicleEF	LDT1	0.90	1.84
tblVehicleEF	LDT1	2.31	6.81
tblVehicleEF	LDT1	287.94	362.43
tblVehicleEF	LDT1	60.45	91.86
tblVehicleEF	LDT1	6.5530e-003	0.01
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.08	0.19
tblVehicleEF	LDT1	0.24	0.48
tblVehicleEF	LDT1	0.04	9.2870e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT1	1.8320e-003	2.8810e-003
tblVehicleEF	LDT1	2.1830e-003	3.4250e-003
tblVehicleEF	LDT1	0.02	3.2500e-003
tblVehicleEF	LDT1	1.6860e-003	2.6510e-003
tblVehicleEF	LDT1	2.0070e-003	3.1490e-003
tblVehicleEF	LDT1	0.08	3.43
tblVehicleEF	LDT1	0.21	0.21
tblVehicleEF	LDT1	0.02	0.05
tblVehicleEF	LDT1	0.11	0.66
tblVehicleEF	LDT1	0.31	0.71
tblVehicleEF	LDT1	2.8490e-003	3.5830e-003
tblVehicleEF	LDT1	5.9800e-004	9.0800e-004
tblVehicleEF	LDT1	0.08	3.43
tblVehicleEF	LDT1	0.21	0.21
tblVehicleEF	LDT1	0.03	0.07
tblVehicleEF	LDT1	0.11	0.66
tblVehicleEF	LDT1	0.34	0.77
tblVehicleEF	LDT2	2.9460e-003	2.9450e-003
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.68	0.75
tblVehicleEF	LDT2	2.48	2.95
tblVehicleEF	LDT2	304.16	343.90
tblVehicleEF	LDT2	63.10	80.72
tblVehicleEF	LDT2	5.3950e-003	5.3400e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.23	0.28
tblVehicleEF	LDT2	0.04	8.7990e-003
tblVehicleEF	LDT2	1.4180e-003	1.4140e-003

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tblVehicleEF	LDT2	1.6420e-003	1.7750e-003
tblVehicleEF	LDT2	0.02	3.0800e-003
tblVehicleEF	LDT2	1.3050e-003	1.3010e-003
tblVehicleEF	LDT2	1.5100e-003	1.6320e-003
tblVehicleEF	LDT2	0.06	1.32
tblVehicleEF	LDT2	0.12	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.26	0.30
tblVehicleEF	LDT2	3.0090e-003	3.3990e-003
tblVehicleEF	LDT2	6.2400e-004	7.9800e-004
tblVehicleEF	LDT2	0.06	1.32
tblVehicleEF	LDT2	0.12	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.28	0.33
tblVehicleEF	LDT2	3.1950e-003	2.9320e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.76	0.76
tblVehicleEF	LDT2	2.04	2.88
tblVehicleEF	LDT2	317.29	344.65
tblVehicleEF	LDT2	62.31	80.46
tblVehicleEF	LDT2	5.0620e-003	5.2550e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.21	0.27
tblVehicleEF	LDT2	0.04	8.7980e-003
tblVehicleEF	LDT2	1.4180e-003	1.4100e-003
tblVehicleEF	LDT2	1.6420e-003	1.7710e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT2	0.02	3.0790e-003
tblVehicleEF	LDT2	1.3050e-003	1.2970e-003
tblVehicleEF	LDT2	1.5100e-003	1.6280e-003
tblVehicleEF	LDT2	0.09	1.34
tblVehicleEF	LDT2	0.12	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.22	0.30
tblVehicleEF	LDT2	3.1390e-003	3.4070e-003
tblVehicleEF	LDT2	6.1700e-004	7.9500e-004
tblVehicleEF	LDT2	0.09	1.34
tblVehicleEF	LDT2	0.12	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.24	0.32
tblVehicleEF	LDT2	2.8860e-003	4.0080e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.67	0.90
tblVehicleEF	LDT2	2.66	4.00
tblVehicleEF	LDT2	301.79	375.58
tblVehicleEF	LDT2	63.44	90.06
tblVehicleEF	LDT2	5.4340e-003	6.9200e-003
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.24	0.37
tblVehicleEF	LDT2	0.04	8.8250e-003
tblVehicleEF	LDT2	1.4180e-003	1.7680e-003
tblVehicleEF	LDT2	1.6420e-003	2.1270e-003
tblVehicleEF	LDT2	0.02	3.0890e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LDT2	1.3050e-003	1.6270e-003
tblVehicleEF	LDT2	1.5100e-003	1.9560e-003
tblVehicleEF	LDT2	0.04	1.45
tblVehicleEF	LDT2	0.13	0.09
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.24
tblVehicleEF	LDT2	0.27	0.42
tblVehicleEF	LDT2	2.9850e-003	3.7120e-003
tblVehicleEF	LDT2	6.2800e-004	8.9000e-004
tblVehicleEF	LDT2	0.04	1.45
tblVehicleEF	LDT2	0.13	0.09
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.24
tblVehicleEF	LDT2	0.29	0.46
tblVehicleEF	LHD1	4.3840e-003	0.06
tblVehicleEF	LHD1	7.7200e-003	6.3690e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.17	2.53
tblVehicleEF	LHD1	0.72	0.70
tblVehicleEF	LHD1	0.90	1.82
tblVehicleEF	LHD1	9.03	114.95
tblVehicleEF	LHD1	744.83	686.69
tblVehicleEF	LHD1	10.05	14.76
tblVehicleEF	LHD1	8.5400e-004	9.1300e-003
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.07	0.68
tblVehicleEF	LHD1	0.84	0.62
tblVehicleEF	LHD1	0.26	0.33

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD1	9.9400e-004	0.01
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.01	9.5540e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.1700e-004	1.6200e-004
tblVehicleEF	LHD1	9.5100e-004	9.5810e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5050e-003	2.3890e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	2.0000e-004	1.4900e-004
tblVehicleEF	LHD1	1.6140e-003	1.52
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.02	0.26
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.17	0.13
tblVehicleEF	LHD1	0.06	0.08
tblVehicleEF	LHD1	8.7000e-005	1.1170e-003
tblVehicleEF	LHD1	7.2530e-003	6.6900e-003
tblVehicleEF	LHD1	9.9000e-005	1.4600e-004
tblVehicleEF	LHD1	1.6140e-003	1.52
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.03	0.37
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.17	0.13
tblVehicleEF	LHD1	0.06	0.09
tblVehicleEF	LHD1	4.3930e-003	0.06
tblVehicleEF	LHD1	7.8320e-003	6.3150e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.17	2.53

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD1	0.73	0.70
tblVehicleEF	LHD1	0.85	1.82
tblVehicleEF	LHD1	9.03	114.85
tblVehicleEF	LHD1	744.85	685.89
tblVehicleEF	LHD1	9.97	14.74
tblVehicleEF	LHD1	8.5600e-004	9.1300e-003
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.07	0.67
tblVehicleEF	LHD1	0.80	0.61
tblVehicleEF	LHD1	0.25	0.33
tblVehicleEF	LHD1	9.9400e-004	0.01
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.01	9.5550e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	2.1700e-004	1.6000e-004
tblVehicleEF	LHD1	9.5100e-004	9.5850e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5050e-003	2.3890e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	2.0000e-004	1.4700e-004
tblVehicleEF	LHD1	2.3300e-003	1.54
tblVehicleEF	LHD1	0.07	0.02
tblVehicleEF	LHD1	0.02	0.26
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.17	0.13
tblVehicleEF	LHD1	0.06	0.08
tblVehicleEF	LHD1	8.7000e-005	1.1160e-003
tblVehicleEF	LHD1	7.2530e-003	6.6820e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD1	9.9000e-005	1.4600e-004
tblVehicleEF	LHD1	2.3300e-003	1.54
tblVehicleEF	LHD1	0.07	0.02
tblVehicleEF	LHD1	0.03	0.37
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.17	0.13
tblVehicleEF	LHD1	0.06	0.09
tblVehicleEF	LHD1	4.3800e-003	0.08
tblVehicleEF	LHD1	7.6700e-003	0.01
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.17	2.69
tblVehicleEF	LHD1	0.71	1.01
tblVehicleEF	LHD1	0.92	1.94
tblVehicleEF	LHD1	9.03	126.03
tblVehicleEF	LHD1	744.83	785.08
tblVehicleEF	LHD1	10.09	16.18
tblVehicleEF	LHD1	8.5300e-004	9.8600e-003
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.07	0.83
tblVehicleEF	LHD1	0.84	1.03
tblVehicleEF	LHD1	0.26	0.42
tblVehicleEF	LHD1	9.9400e-004	0.01
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.6600e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.1700e-004	2.3900e-004
tblVehicleEF	LHD1	9.5100e-004	9.9280e-003
tblVehicleEF	LHD1	0.03	0.03

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD1	2.5050e-003	2.4150e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.0000e-004	2.2000e-004
tblVehicleEF	LHD1	1.4760e-003	1.93
tblVehicleEF	LHD1	0.08	0.03
tblVehicleEF	LHD1	0.02	0.31
tblVehicleEF	LHD1	0.10	0.12
tblVehicleEF	LHD1	0.19	0.18
tblVehicleEF	LHD1	0.06	0.11
tblVehicleEF	LHD1	8.7000e-005	1.2250e-003
tblVehicleEF	LHD1	7.2530e-003	7.6540e-003
tblVehicleEF	LHD1	1.0000e-004	1.6000e-004
tblVehicleEF	LHD1	1.4760e-003	1.93
tblVehicleEF	LHD1	0.08	0.03
tblVehicleEF	LHD1	0.03	0.44
tblVehicleEF	LHD1	0.12	0.15
tblVehicleEF	LHD1	0.19	0.18
tblVehicleEF	LHD1	0.07	0.12
tblVehicleEF	LHD2	2.9640e-003	0.04
tblVehicleEF	LHD2	6.4040e-003	5.7410e-003
tblVehicleEF	LHD2	7.0010e-003	9.6360e-003
tblVehicleEF	LHD2	0.14	1.83
tblVehicleEF	LHD2	0.59	0.47
tblVehicleEF	LHD2	0.54	1.02
tblVehicleEF	LHD2	13.96	170.75
tblVehicleEF	LHD2	744.92	741.80
tblVehicleEF	LHD2	7.25	8.39
tblVehicleEF	LHD2	1.7690e-003	0.02
tblVehicleEF	LHD2	0.07	0.08

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.10	1.05
tblVehicleEF	LHD2	0.82	0.72
tblVehicleEF	LHD2	0.16	0.19
tblVehicleEF	LHD2	1.4400e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.1400e-004	6.9000e-005
tblVehicleEF	LHD2	1.3770e-003	0.02
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.6990e-003	2.6390e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0400e-004	6.4000e-005
tblVehicleEF	LHD2	8.0000e-004	0.83
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.19
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	0.07	0.06
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	1.3300e-004	1.6370e-003
tblVehicleEF	LHD2	7.1890e-003	7.1400e-003
tblVehicleEF	LHD2	7.2000e-005	8.3000e-005
tblVehicleEF	LHD2	8.0000e-004	0.83
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.26
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.07	0.06
tblVehicleEF	LHD2	0.04	0.05

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD2	2.9700e-003	0.04
tblVehicleEF	LHD2	6.4490e-003	5.7050e-003
tblVehicleEF	LHD2	6.7120e-003	9.5460e-003
tblVehicleEF	LHD2	0.14	1.83
tblVehicleEF	LHD2	0.59	0.47
tblVehicleEF	LHD2	0.51	1.02
tblVehicleEF	LHD2	13.96	170.68
tblVehicleEF	LHD2	744.93	741.19
tblVehicleEF	LHD2	7.20	8.36
tblVehicleEF	LHD2	1.7700e-003	0.02
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.10	1.05
tblVehicleEF	LHD2	0.79	0.71
tblVehicleEF	LHD2	0.16	0.19
tblVehicleEF	LHD2	1.4400e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.1400e-004	6.8000e-005
tblVehicleEF	LHD2	1.3770e-003	0.02
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.6990e-003	2.6400e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0400e-004	6.3000e-005
tblVehicleEF	LHD2	1.1590e-003	0.84
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.19
tblVehicleEF	LHD2	0.11	0.10

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD2	0.07	0.06
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	1.3300e-004	1.6360e-003
tblVehicleEF	LHD2	7.1890e-003	7.1340e-003
tblVehicleEF	LHD2	7.1000e-005	8.3000e-005
tblVehicleEF	LHD2	1.1590e-003	0.84
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.26
tblVehicleEF	LHD2	0.13	0.12
tblVehicleEF	LHD2	0.07	0.06
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	2.9620e-003	0.05
tblVehicleEF	LHD2	6.3850e-003	8.1630e-003
tblVehicleEF	LHD2	7.1310e-003	0.01
tblVehicleEF	LHD2	0.14	2.01
tblVehicleEF	LHD2	0.59	0.65
tblVehicleEF	LHD2	0.55	1.17
tblVehicleEF	LHD2	13.96	185.66
tblVehicleEF	LHD2	744.92	843.22
tblVehicleEF	LHD2	7.27	9.91
tblVehicleEF	LHD2	1.7680e-003	0.02
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.10	1.29
tblVehicleEF	LHD2	0.81	1.11
tblVehicleEF	LHD2	0.17	0.26
tblVehicleEF	LHD2	1.4400e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.1400e-004	1.1000e-004
tblVehicleEF	LHD2	1.3770e-003	0.02
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.6990e-003	2.6710e-003
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.0400e-004	1.0100e-004
tblVehicleEF	LHD2	7.1400e-004	1.02
tblVehicleEF	LHD2	0.04	0.02
tblVehicleEF	LHD2	0.02	0.23
tblVehicleEF	LHD2	0.11	0.14
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.03	0.07
tblVehicleEF	LHD2	1.3300e-004	1.7810e-003
tblVehicleEF	LHD2	7.1890e-003	8.1260e-003
tblVehicleEF	LHD2	7.2000e-005	9.8000e-005
tblVehicleEF	LHD2	7.1400e-004	1.02
tblVehicleEF	LHD2	0.04	0.02
tblVehicleEF	LHD2	0.02	0.32
tblVehicleEF	LHD2	0.13	0.16
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.04	0.07
tblVehicleEF	MCY	0.35	0.20
tblVehicleEF	MCY	0.24	0.16
tblVehicleEF	MCY	19.81	13.05
tblVehicleEF	MCY	8.66	7.68
tblVehicleEF	MCY	220.35	203.25
tblVehicleEF	MCY	59.87	45.52
tblVehicleEF	MCY	0.07	0.04

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tblVehicleEF	MCY	0.02	7.1880e-003
tblVehicleEF	MCY	1.15	0.56
tblVehicleEF	MCY	0.27	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.1740e-003	2.4700e-003
tblVehicleEF	MCY	2.8910e-003	3.3630e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.0310e-003	2.3070e-003
tblVehicleEF	MCY	2.7170e-003	3.1550e-003
tblVehicleEF	MCY	0.94	4.15
tblVehicleEF	MCY	0.74	3.60
tblVehicleEF	MCY	2.40	1.27
tblVehicleEF	MCY	0.50	3.78
tblVehicleEF	MCY	1.84	1.21
tblVehicleEF	MCY	2.1810e-003	2.0090e-003
tblVehicleEF	MCY	5.9200e-004	4.5000e-004
tblVehicleEF	MCY	0.94	4.15
tblVehicleEF	MCY	0.74	3.60
tblVehicleEF	MCY	2.98	1.55
tblVehicleEF	MCY	0.50	3.78
tblVehicleEF	MCY	2.00	1.31
tblVehicleEF	MCY	0.35	0.19
tblVehicleEF	MCY	0.21	0.16
tblVehicleEF	MCY	18.90	13.00
tblVehicleEF	MCY	7.75	7.61
tblVehicleEF	MCY	218.65	203.17
tblVehicleEF	MCY	57.62	45.29
tblVehicleEF	MCY	0.06	0.04
tblVehicleEF	MCY	0.01	7.1420e-003

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tblVehicleEF	MCY	1.04	0.56
tblVehicleEF	MCY	0.25	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.1740e-003	2.4710e-003
tblVehicleEF	MCY	2.8910e-003	3.3530e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.0310e-003	2.3090e-003
tblVehicleEF	MCY	2.7170e-003	3.1450e-003
tblVehicleEF	MCY	1.52	4.26
tblVehicleEF	MCY	0.84	3.61
tblVehicleEF	MCY	2.33	1.27
tblVehicleEF	MCY	0.46	3.77
tblVehicleEF	MCY	1.60	1.19
tblVehicleEF	MCY	2.1640e-003	2.0090e-003
tblVehicleEF	MCY	5.7000e-004	4.4800e-004
tblVehicleEF	MCY	1.52	4.26
tblVehicleEF	MCY	0.84	3.61
tblVehicleEF	MCY	2.89	1.54
tblVehicleEF	MCY	0.46	3.77
tblVehicleEF	MCY	1.74	1.30
tblVehicleEF	MCY	0.36	0.21
tblVehicleEF	MCY	0.25	0.19
tblVehicleEF	MCY	20.45	14.65
tblVehicleEF	MCY	9.13	8.20
tblVehicleEF	MCY	221.50	205.59
tblVehicleEF	MCY	60.99	50.21
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	8.5500e-003
tblVehicleEF	MCY	1.17	0.62

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MCY	0.27	0.15
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.1740e-003	2.3570e-003
tblVehicleEF	MCY	2.8910e-003	3.5430e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.0310e-003	2.2070e-003
tblVehicleEF	MCY	2.7170e-003	3.3360e-003
tblVehicleEF	MCY	0.86	4.02
tblVehicleEF	MCY	0.99	3.58
tblVehicleEF	MCY	2.43	1.44
tblVehicleEF	MCY	0.59	4.05
tblVehicleEF	MCY	1.96	1.43
tblVehicleEF	MCY	2.1920e-003	2.0320e-003
tblVehicleEF	MCY	6.0400e-004	4.9600e-004
tblVehicleEF	MCY	0.86	4.02
tblVehicleEF	MCY	0.99	3.58
tblVehicleEF	MCY	3.02	1.72
tblVehicleEF	MCY	0.59	4.05
tblVehicleEF	MCY	2.13	1.55
tblVehicleEF	MDV	3.1750e-003	3.5470e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.69	0.81
tblVehicleEF	MDV	2.68	3.14
tblVehicleEF	MDV	368.17	413.72
tblVehicleEF	MDV	75.95	96.88
tblVehicleEF	MDV	7.0150e-003	6.9070e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.26	0.33

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MDV	0.04	8.8900e-003
tblVehicleEF	MDV	1.4570e-003	1.4410e-003
tblVehicleEF	MDV	1.6720e-003	1.7910e-003
tblVehicleEF	MDV	0.02	3.1120e-003
tblVehicleEF	MDV	1.3440e-003	1.3280e-003
tblVehicleEF	MDV	1.5370e-003	1.6460e-003
tblVehicleEF	MDV	0.06	1.59
tblVehicleEF	MDV	0.13	0.09
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.06	0.26
tblVehicleEF	MDV	0.30	0.38
tblVehicleEF	MDV	3.6390e-003	4.0870e-003
tblVehicleEF	MDV	7.5200e-004	9.5800e-004
tblVehicleEF	MDV	0.06	1.59
tblVehicleEF	MDV	0.13	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.06	0.26
tblVehicleEF	MDV	0.33	0.41
tblVehicleEF	MDV	3.4450e-003	3.5160e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.77	0.82
tblVehicleEF	MDV	2.20	3.06
tblVehicleEF	MDV	381.34	414.37
tblVehicleEF	MDV	75.07	96.57
tblVehicleEF	MDV	6.6620e-003	6.7840e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.05	0.07
tblVehicleEF	MDV	0.24	0.33
tblVehicleEF	MDV	0.04	8.8890e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MDV	1.4570e-003	1.4340e-003
tblVehicleEF	MDV	1.6720e-003	1.7810e-003
tblVehicleEF	MDV	0.02	3.1110e-003
tblVehicleEF	MDV	1.3440e-003	1.3220e-003
tblVehicleEF	MDV	1.5370e-003	1.6380e-003
tblVehicleEF	MDV	0.10	1.61
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.05	0.26
tblVehicleEF	MDV	0.26	0.37
tblVehicleEF	MDV	3.7690e-003	4.0940e-003
tblVehicleEF	MDV	7.4300e-004	9.5500e-004
tblVehicleEF	MDV	0.10	1.61
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.05	0.26
tblVehicleEF	MDV	0.29	0.40
tblVehicleEF	MDV	3.1100e-003	5.3930e-003
tblVehicleEF	MDV	0.07	0.11
tblVehicleEF	MDV	0.68	1.06
tblVehicleEF	MDV	2.87	4.42
tblVehicleEF	MDV	365.78	455.28
tblVehicleEF	MDV	76.32	108.53
tblVehicleEF	MDV	7.0560e-003	9.7720e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.06	0.12
tblVehicleEF	MDV	0.27	0.48
tblVehicleEF	MDV	0.04	8.9880e-003
tblVehicleEF	MDV	1.4570e-003	1.8920e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MDV	1.6720e-003	2.2530e-003
tblVehicleEF	MDV	0.02	3.1460e-003
tblVehicleEF	MDV	1.3440e-003	1.7460e-003
tblVehicleEF	MDV	1.5370e-003	2.0720e-003
tblVehicleEF	MDV	0.05	1.79
tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.07	0.30
tblVehicleEF	MDV	0.32	0.57
tblVehicleEF	MDV	3.6150e-003	4.4980e-003
tblVehicleEF	MDV	7.5500e-004	1.0730e-003
tblVehicleEF	MDV	0.05	1.79
tblVehicleEF	MDV	0.14	0.11
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.07	0.30
tblVehicleEF	MDV	0.35	0.63
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.10	0.94
tblVehicleEF	MH	1.94	2.11
tblVehicleEF	MH	1,525.58	1,670.37
tblVehicleEF	MH	17.93	21.04
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.55	1.58
tblVehicleEF	MH	0.24	0.31
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MH	2.4100e-004	2.5800e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.2890e-003	3.3220e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.2200e-004	2.3800e-004
tblVehicleEF	MH	0.69	2.95
tblVehicleEF	MH	0.06	7.37
tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.02	0.17
tblVehicleEF	MH	0.09	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.7700e-004	2.0800e-004
tblVehicleEF	MH	0.69	2.95
tblVehicleEF	MH	0.06	7.37
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.02	0.17
tblVehicleEF	MH	0.10	0.11
tblVehicleEF	MH	0.01	9.9380e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.13	0.91
tblVehicleEF	MH	1.81	2.08
tblVehicleEF	MH	1,525.64	1,669.46
tblVehicleEF	MH	17.72	20.96
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.48	1.57
tblVehicleEF	MH	0.23	0.31
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.4100e-004	2.5500e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.2890e-003	3.3230e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.2200e-004	2.3500e-004
tblVehicleEF	MH	0.95	3.00
tblVehicleEF	MH	0.06	7.35
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.17
tblVehicleEF	MH	0.09	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.7500e-004	2.0700e-004
tblVehicleEF	MH	0.95	3.00
tblVehicleEF	MH	0.06	7.35
tblVehicleEF	MH	0.10	0.10
tblVehicleEF	MH	0.02	0.17
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	1.08	1.61
tblVehicleEF	MH	2.00	2.57
tblVehicleEF	MH	1,525.56	1,699.67
tblVehicleEF	MH	18.03	22.98
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.54	1.69
tblVehicleEF	MH	0.25	0.30
tblVehicleEF	MH	0.13	0.04

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	2.4100e-004	3.1900e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	2.2200e-004	2.9400e-004
tblVehicleEF	MH	0.69	3.41
tblVehicleEF	MH	0.07	9.37
tblVehicleEF	MH	0.07	0.10
tblVehicleEF	MH	0.02	0.22
tblVehicleEF	MH	0.09	0.12
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.7800e-004	2.2700e-004
tblVehicleEF	MH	0.69	3.41
tblVehicleEF	MH	0.07	9.37
tblVehicleEF	MH	0.10	0.13
tblVehicleEF	MH	0.02	0.22
tblVehicleEF	MH	0.10	0.13
tblVehicleEF	MHD	3.9860e-003	0.25
tblVehicleEF	MHD	1.7800e-003	0.01
tblVehicleEF	MHD	9.8670e-003	9.5600e-003
tblVehicleEF	MHD	0.41	8.81
tblVehicleEF	MHD	0.23	0.30
tblVehicleEF	MHD	1.10	1.07
tblVehicleEF	MHD	76.60	1,724.30
tblVehicleEF	MHD	1,072.80	1,131.79
tblVehicleEF	MHD	9.96	9.53
tblVehicleEF	MHD	0.01	0.26
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	8.0860e-003	6.7900e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MHD	0.45	8.99
tblVehicleEF	MHD	1.39	0.76
tblVehicleEF	MHD	1.66	1.17
tblVehicleEF	MHD	3.5600e-004	0.01
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	6.6970e-003	7.1540e-003
tblVehicleEF	MHD	1.2100e-004	1.1500e-004
tblVehicleEF	MHD	3.4100e-004	0.01
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.4000e-003	6.8340e-003
tblVehicleEF	MHD	1.1100e-004	1.0500e-004
tblVehicleEF	MHD	3.8000e-004	0.55
tblVehicleEF	MHD	0.02	6.3890e-003
tblVehicleEF	MHD	0.02	0.37
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	7.2700e-004	0.02
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.9000e-005	9.4000e-005
tblVehicleEF	MHD	3.8000e-004	0.55
tblVehicleEF	MHD	0.02	6.3890e-003
tblVehicleEF	MHD	0.03	0.68
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.7920e-003	0.25
tblVehicleEF	MHD	1.8160e-003	0.01
tblVehicleEF	MHD	9.4390e-003	9.4740e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MHD	0.35	8.74
tblVehicleEF	MHD	0.24	0.29
tblVehicleEF	MHD	1.04	1.06
tblVehicleEF	MHD	76.68	1,721.96
tblVehicleEF	MHD	1,072.80	1,131.13
tblVehicleEF	MHD	9.85	9.48
tblVehicleEF	MHD	0.01	0.26
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	7.8510e-003	6.7670e-003
tblVehicleEF	MHD	0.45	8.89
tblVehicleEF	MHD	1.33	0.73
tblVehicleEF	MHD	1.65	1.18
tblVehicleEF	MHD	3.0400e-004	0.01
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	6.6970e-003	6.9530e-003
tblVehicleEF	MHD	1.2100e-004	1.1300e-004
tblVehicleEF	MHD	2.9100e-004	0.01
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.4000e-003	6.6410e-003
tblVehicleEF	MHD	1.1100e-004	1.0400e-004
tblVehicleEF	MHD	5.5800e-004	0.55
tblVehicleEF	MHD	0.02	6.3370e-003
tblVehicleEF	MHD	0.02	0.37
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	7.2800e-004	0.02
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.7000e-005	9.4000e-005

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MHD	5.5800e-004	0.55
tblVehicleEF	MHD	0.02	6.3370e-003
tblVehicleEF	MHD	0.03	0.68
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	4.2670e-003	0.28
tblVehicleEF	MHD	1.7620e-003	0.02
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.50	11.28
tblVehicleEF	MHD	0.23	0.56
tblVehicleEF	MHD	1.13	1.58
tblVehicleEF	MHD	76.48	1,887.62
tblVehicleEF	MHD	1,072.79	1,285.82
tblVehicleEF	MHD	10.01	12.26
tblVehicleEF	MHD	0.01	0.28
tblVehicleEF	MHD	0.13	0.15
tblVehicleEF	MHD	8.2360e-003	8.5840e-003
tblVehicleEF	MHD	0.47	10.83
tblVehicleEF	MHD	1.38	1.19
tblVehicleEF	MHD	1.66	1.30
tblVehicleEF	MHD	4.2900e-004	0.03
tblVehicleEF	MHD	0.13	0.05
tblVehicleEF	MHD	6.6970e-003	0.01
tblVehicleEF	MHD	1.2100e-004	1.5600e-004
tblVehicleEF	MHD	4.1000e-004	0.03
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.4000e-003	0.01
tblVehicleEF	MHD	1.1100e-004	1.4300e-004

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MHD	3.4300e-004	0.83
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.46
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.02	0.07
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	7.2600e-004	0.02
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.9000e-005	1.2100e-004
tblVehicleEF	MHD	3.4300e-004	0.83
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.03	0.82
tblVehicleEF	MHD	0.02	0.07
tblVehicleEF	MHD	0.02	0.07
tblVehicleEF	MHD	0.06	0.08
tblVehicleEF	OBUS	8.7240e-003	0.26
tblVehicleEF	OBUS	7.8750e-003	0.05
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.62	9.17
tblVehicleEF	OBUS	0.88	1.04
tblVehicleEF	OBUS	2.56	2.76
tblVehicleEF	OBUS	87.42	1,193.58
tblVehicleEF	OBUS	1,476.82	1,469.43
tblVehicleEF	OBUS	19.88	20.95
tblVehicleEF	OBUS	0.01	0.15
tblVehicleEF	OBUS	0.11	0.12
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.34	3.95
tblVehicleEF	OBUS	1.22	1.01

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	OBUS	0.77	0.69
tblVehicleEF	OBUS	1.1700e-004	4.6030e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.7290e-003	0.02
tblVehicleEF	OBUS	2.5400e-004	2.3600e-004
tblVehicleEF	OBUS	1.1200e-004	4.3990e-003
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.3700e-003	0.02
tblVehicleEF	OBUS	2.3400e-004	2.1700e-004
tblVehicleEF	OBUS	2.0040e-003	2.46
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.83
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	0.12	0.13
tblVehicleEF	OBUS	8.3200e-004	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.9700e-004	2.0700e-004
tblVehicleEF	OBUS	2.0040e-003	2.46
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.07	1.22
tblVehicleEF	OBUS	0.06	0.13
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	0.13	0.14
tblVehicleEF	OBUS	8.8120e-003	0.26
tblVehicleEF	OBUS	8.0900e-003	0.05
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.61	9.20
tblVehicleEF	OBUS	0.90	1.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	OBUS	2.39	2.74
tblVehicleEF	OBUS	86.43	1,193.76
tblVehicleEF	OBUS	1,476.86	1,468.06
tblVehicleEF	OBUS	19.60	20.88
tblVehicleEF	OBUS	0.01	0.15
tblVehicleEF	OBUS	0.11	0.12
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.32	3.91
tblVehicleEF	OBUS	1.16	0.99
tblVehicleEF	OBUS	0.76	0.69
tblVehicleEF	OBUS	1.0400e-004	4.5380e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.7290e-003	0.02
tblVehicleEF	OBUS	2.5400e-004	2.3500e-004
tblVehicleEF	OBUS	9.9000e-005	4.3370e-003
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.3700e-003	0.02
tblVehicleEF	OBUS	2.3400e-004	2.1600e-004
tblVehicleEF	OBUS	2.8130e-003	2.51
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.83
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	8.2300e-004	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.9400e-004	2.0600e-004
tblVehicleEF	OBUS	2.8130e-003	2.51
tblVehicleEF	OBUS	0.03	0.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	OBUS	0.07	1.22
tblVehicleEF	OBUS	0.06	0.13
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	0.12	0.14
tblVehicleEF	OBUS	8.6180e-003	0.26
tblVehicleEF	OBUS	7.7810e-003	0.05
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.62	8.66
tblVehicleEF	OBUS	0.87	1.54
tblVehicleEF	OBUS	2.63	3.36
tblVehicleEF	OBUS	88.77	1,099.60
tblVehicleEF	OBUS	1,476.80	1,620.27
tblVehicleEF	OBUS	20.01	24.35
tblVehicleEF	OBUS	0.01	0.13
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.37	3.99
tblVehicleEF	OBUS	1.22	1.19
tblVehicleEF	OBUS	0.78	0.69
tblVehicleEF	OBUS	1.3500e-004	6.0400e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.7290e-003	0.02
tblVehicleEF	OBUS	2.5400e-004	2.7700e-004
tblVehicleEF	OBUS	1.2900e-004	5.7740e-003
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.3700e-003	0.02
tblVehicleEF	OBUS	2.3400e-004	2.5500e-004
tblVehicleEF	OBUS	1.9500e-003	2.53
tblVehicleEF	OBUS	0.03	0.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	OBUS	0.05	0.80
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.10	0.11
tblVehicleEF	OBUS	0.12	0.16
tblVehicleEF	OBUS	8.4500e-004	0.01
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	1.9800e-004	2.4100e-004
tblVehicleEF	OBUS	1.9500e-003	2.53
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.07	1.20
tblVehicleEF	OBUS	0.06	0.17
tblVehicleEF	OBUS	0.10	0.11
tblVehicleEF	OBUS	0.13	0.17
tblVehicleEF	SBUS	0.03	0.24
tblVehicleEF	SBUS	7.7010e-003	0.03
tblVehicleEF	SBUS	2.8170e-003	2.9830e-003
tblVehicleEF	SBUS	1.44	7.19
tblVehicleEF	SBUS	0.60	0.81
tblVehicleEF	SBUS	0.42	0.40
tblVehicleEF	SBUS	330.59	2,099.51
tblVehicleEF	SBUS	1,067.70	960.38
tblVehicleEF	SBUS	2.21	2.07
tblVehicleEF	SBUS	0.05	0.32
tblVehicleEF	SBUS	0.15	0.13
tblVehicleEF	SBUS	2.1900e-003	2.0080e-003
tblVehicleEF	SBUS	3.81	21.13
tblVehicleEF	SBUS	6.60	3.27
tblVehicleEF	SBUS	0.73	0.42
tblVehicleEF	SBUS	4.5360e-003	0.02

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.02
tblVehicleEF	SBUS	3.6000e-005	2.6000e-005
tblVehicleEF	SBUS	4.3400e-003	0.02
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.8100e-003	2.7230e-003
tblVehicleEF	SBUS	0.04	0.02
tblVehicleEF	SBUS	3.3000e-005	2.4000e-005
tblVehicleEF	SBUS	3.4400e-004	0.10
tblVehicleEF	SBUS	3.7250e-003	5.9700e-003
tblVehicleEF	SBUS	0.15	0.53
tblVehicleEF	SBUS	0.11	0.07
tblVehicleEF	SBUS	7.3780e-003	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	3.1360e-003	0.02
tblVehicleEF	SBUS	0.01	9.0850e-003
tblVehicleEF	SBUS	2.2000e-005	2.0000e-005
tblVehicleEF	SBUS	3.4400e-004	0.10
tblVehicleEF	SBUS	3.7250e-003	5.9700e-003
tblVehicleEF	SBUS	0.21	0.86
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	7.3780e-003	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.03	0.24
tblVehicleEF	SBUS	7.7920e-003	0.03
tblVehicleEF	SBUS	2.4510e-003	2.9490e-003
tblVehicleEF	SBUS	1.40	7.18
tblVehicleEF	SBUS	0.60	0.81

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	SBUS	0.33	0.39
tblVehicleEF	SBUS	341.22	2,104.57
tblVehicleEF	SBUS	1,067.71	959.76
tblVehicleEF	SBUS	2.06	2.05
tblVehicleEF	SBUS	0.05	0.32
tblVehicleEF	SBUS	0.15	0.13
tblVehicleEF	SBUS	2.1020e-003	2.0090e-003
tblVehicleEF	SBUS	3.90	21.12
tblVehicleEF	SBUS	6.36	3.23
tblVehicleEF	SBUS	0.73	0.42
tblVehicleEF	SBUS	3.8310e-003	0.02
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.02
tblVehicleEF	SBUS	3.6000e-005	2.6000e-005
tblVehicleEF	SBUS	3.6660e-003	0.02
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.8100e-003	2.7230e-003
tblVehicleEF	SBUS	0.04	0.02
tblVehicleEF	SBUS	3.3000e-005	2.4000e-005
tblVehicleEF	SBUS	4.8600e-004	0.11
tblVehicleEF	SBUS	3.8720e-003	5.9570e-003
tblVehicleEF	SBUS	0.15	0.53
tblVehicleEF	SBUS	0.11	0.07
tblVehicleEF	SBUS	6.3630e-003	0.14
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	3.2360e-003	0.02
tblVehicleEF	SBUS	0.01	9.0790e-003
tblVehicleEF	SBUS	4.8600e-004	0.11

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	SBUS	3.8720e-003	5.9570e-003
tblVehicleEF	SBUS	0.21	0.86
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	6.3630e-003	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.03	0.20
tblVehicleEF	SBUS	7.6590e-003	0.03
tblVehicleEF	SBUS	2.9980e-003	3.5710e-003
tblVehicleEF	SBUS	1.50	6.71
tblVehicleEF	SBUS	0.59	1.34
tblVehicleEF	SBUS	0.47	0.57
tblVehicleEF	SBUS	315.91	2,191.16
tblVehicleEF	SBUS	1,067.69	1,071.53
tblVehicleEF	SBUS	2.29	2.33
tblVehicleEF	SBUS	0.05	0.34
tblVehicleEF	SBUS	0.15	0.15
tblVehicleEF	SBUS	2.2480e-003	1.8230e-003
tblVehicleEF	SBUS	3.67	26.46
tblVehicleEF	SBUS	6.57	5.32
tblVehicleEF	SBUS	0.73	0.35
tblVehicleEF	SBUS	5.5100e-003	0.04
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	3.6000e-005	2.8000e-005
tblVehicleEF	SBUS	5.2720e-003	0.04
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.8100e-003	2.7500e-003
tblVehicleEF	SBUS	0.04	0.02

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	SBUS	3.3000e-005	2.6000e-005
tblVehicleEF	SBUS	3.4300e-004	0.13
tblVehicleEF	SBUS	4.0120e-003	8.5790e-003
tblVehicleEF	SBUS	0.15	0.52
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	9.6140e-003	0.20
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.9970e-003	0.02
tblVehicleEF	SBUS	3.4300e-004	0.13
tblVehicleEF	SBUS	4.0120e-003	8.5790e-003
tblVehicleEF	SBUS	0.21	0.82
tblVehicleEF	SBUS	0.13	0.16
tblVehicleEF	SBUS	9.6140e-003	0.20
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	UBUS	4.89	2.27
tblVehicleEF	UBUS	0.02	5.3340e-003
tblVehicleEF	UBUS	38.17	29.02
tblVehicleEF	UBUS	1.23	0.76
tblVehicleEF	UBUS	1,897.59	1,072.80
tblVehicleEF	UBUS	13.87	5.22
tblVehicleEF	UBUS	0.31	0.20
tblVehicleEF	UBUS	0.01	7.7200e-003
tblVehicleEF	UBUS	0.41	0.16
tblVehicleEF	UBUS	0.13	0.05
tblVehicleEF	UBUS	0.07	0.10
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1030e-003	3.0700e-004
tblVehicleEF	UBUS	1.7700e-004	2.6000e-005
tblVehicleEF	UBUS	0.03	0.03

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9470e-003	2.8900e-004
tblVehicleEF	UBUS	1.6300e-004	2.4000e-005
tblVehicleEF	UBUS	4.7400e-004	0.06
tblVehicleEF	UBUS	5.1760e-003	4.5170e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	7.8400e-004	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	3.7080e-003	9.5100e-004
tblVehicleEF	UBUS	1.3700e-004	5.2000e-005
tblVehicleEF	UBUS	4.7400e-004	0.06
tblVehicleEF	UBUS	5.1760e-003	4.5170e-003
tblVehicleEF	UBUS	5.00	2.32
tblVehicleEF	UBUS	7.8400e-004	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	4.89	2.29
tblVehicleEF	UBUS	0.01	5.2980e-003
tblVehicleEF	UBUS	38.17	29.21
tblVehicleEF	UBUS	1.06	0.75
tblVehicleEF	UBUS	1,897.60	1,072.31
tblVehicleEF	UBUS	13.58	5.21
tblVehicleEF	UBUS	0.31	0.20
tblVehicleEF	UBUS	0.01	7.7000e-003
tblVehicleEF	UBUS	0.40	0.15
tblVehicleEF	UBUS	0.12	0.05
tblVehicleEF	UBUS	0.07	0.10
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1030e-003	3.0800e-004
tblVehicleEF	UBUS	1.7700e-004	2.6000e-005

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9470e-003	2.9000e-004
tblVehicleEF	UBUS	1.6300e-004	2.4000e-005
tblVehicleEF	UBUS	6.8100e-004	0.06
tblVehicleEF	UBUS	5.6350e-003	4.5490e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	7.1600e-004	0.01
tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	3.7080e-003	9.5100e-004
tblVehicleEF	UBUS	1.3400e-004	5.2000e-005
tblVehicleEF	UBUS	6.8100e-004	0.06
tblVehicleEF	UBUS	5.6350e-003	4.5490e-003
tblVehicleEF	UBUS	5.00	2.34
tblVehicleEF	UBUS	7.1600e-004	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	4.89	2.14
tblVehicleEF	UBUS	0.02	8.1080e-003
tblVehicleEF	UBUS	38.17	30.34
tblVehicleEF	UBUS	1.31	0.80
tblVehicleEF	UBUS	1,897.59	1,438.99
tblVehicleEF	UBUS	14.00	5.83
tblVehicleEF	UBUS	0.31	0.27
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.41	0.32
tblVehicleEF	UBUS	0.13	0.08
tblVehicleEF	UBUS	0.07	0.11
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1030e-003	2.9200e-004

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	UBUS	1.7700e-004	2.1000e-005
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9470e-003	2.7500e-004
tblVehicleEF	UBUS	1.6300e-004	1.9000e-005
tblVehicleEF	UBUS	4.4100e-004	0.09
tblVehicleEF	UBUS	6.0090e-003	8.2650e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	9.5000e-004	0.01
tblVehicleEF	UBUS	0.06	0.03
tblVehicleEF	UBUS	3.7080e-003	1.0580e-003
tblVehicleEF	UBUS	1.3900e-004	5.8000e-005
tblVehicleEF	UBUS	4.4100e-004	0.09
tblVehicleEF	UBUS	6.0090e-003	8.2650e-003
tblVehicleEF	UBUS	5.00	2.19
tblVehicleEF	UBUS	9.5000e-004	0.01
tblVehicleEF	UBUS	0.07	0.03

2.0 Emissions Summary

NASSCO - Phase 1 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.8601	15.1987	15.4492	0.0637	0.1170	0.5617	0.6787	0.0314	0.5338	0.5651	0.0000	6,134.3985	6,134.3985	1.3317	0.0228	6,174.4834
2024	1.7969	14.0456	15.3169	0.0637	0.1170	0.5151	0.6321	0.0314	0.4885	0.5198	0.0000	6,134.9088	6,134.9088	1.3320	0.0223	6,174.8626
Maximum	**1.8601**	**15.1987**	**15.4492**	**0.0637**	**0.1170**	**0.5617**	**0.6787**	**0.0314**	**0.5338**	**0.5651**	**0.0000**	**6,134.9088**	**6,134.9088**	**1.3320**	**0.0228**	**6,174.8626**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	0.7768	3.9298	25.5379	0.0637	0.1170	0.1207	0.2377	0.0314	0.1178	0.1491	0.0000	6,134.3985	6,134.3985	1.3317	0.0228	6,174.4834
2024	0.7730	3.8665	25.5261	0.0637	0.1170	0.1198	0.2368	0.0314	0.1170	0.1483	0.0000	6,134.9088	6,134.9088	1.3320	0.0223	6,174.8626
Maximum	**0.7768**	**3.9298**	**25.5379**	**0.0637**	**0.1170**	**0.1207**	**0.2377**	**0.0314**	**0.1178**	**0.1491**	**0.0000**	**6,134.9088**	**6,134.9088**	**1.3320**	**0.0228**	**6,174.8626**

NASSCO - Phase 1 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	57.62	73.34	-65.97	0.00	0.00	77.67	63.80	0.00	77.04	72.58	0.00	0.00	0.00	0.00	0.00	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.0444	1.3000e-004	0.0148	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0319	0.0319	8.0000e-005		0.0340
Energy	0.0496	0.4508	0.3787	2.7000e-003		0.0343	0.0343		0.0343	0.0343		540.9926	540.9926	0.0104	9.9200e-003	544.2074
Mobile	5.9499	3.3180	24.6529	0.0567	5.2781	0.0417	5.3198	1.3153	0.0390	1.3543		5,789.2219	5,789.2219	0.3135	0.2587	5,874.1480
Total	**10.0439**	**3.7690**	**25.0464**	**0.0594**	**5.2781**	**0.0760**	**5.3541**	**1.3153**	**0.0733**	**1.3886**		**6,330.2464**	**6,330.2464**	**0.3240**	**0.2686**	**6,418.3894**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.0444	1.3000e-004	0.0148	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0319	0.0319	8.0000e-005		0.0340
Energy	0.0496	0.4508	0.3787	2.7000e-003		0.0343	0.0343		0.0343	0.0343		540.9926	540.9926	0.0104	9.9200e-003	544.2074
Mobile	5.9499	3.3180	24.6529	0.0567	5.2781	0.0417	5.3198	1.3153	0.0390	1.3543		5,789.2219	5,789.2219	0.3135	0.2587	5,874.1480
Total	**10.0439**	**3.7690**	**25.0464**	**0.0594**	**5.2781**	**0.0760**	**5.3541**	**1.3153**	**0.0733**	**1.3886**		**6,330.2464**	**6,330.2464**	**0.3240**	**0.2686**	**6,418.3894**

NASSCO - Phase 1 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Lot 20	Building Construction	1/2/2023	10/16/2023	7	288	
2	Dry Dock Infrastructure	Building Construction	10/17/2023	9/16/2024	7	336	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Lot 20	Air Compressors	1	8.00	78	0.48
Lot 20	Bore/Drill Rigs	1	4.00	595	0.50
Lot 20	Bore/Drill Rigs	1	4.00	595	0.50
Lot 20	Cranes	1	8.00	282	0.29
Lot 20	Crushing/Proc. Equipment	1	8.00	10	0.78
Lot 20	Excavators	1	4.00	242	0.38
Lot 20	Off-Highway Trucks	1	2.00	385	0.38
Lot 20	Other Construction Equipment	1	4.00	595	0.50
Lot 20	Pumps	1	8.00	225	0.74

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Dry Dock Infrastructure	Air Compressors	1	8.00	78	0.48
Dry Dock Infrastructure	Bore/Drill Rigs	1	4.00	595	0.50
Dry Dock Infrastructure	Bore/Drill Rigs	1	4.00	595	0.50
Dry Dock Infrastructure	Cranes	1	8.00	282	0.29
Dry Dock Infrastructure	Crushing/Proc. Equipment	1	8.00	10	0.78
Dry Dock Infrastructure	Excavators	1	4.00	242	0.38
Dry Dock Infrastructure	Off-Highway Trucks	1	2.00	385	0.38
Dry Dock Infrastructure	Other Construction Equipment	1	4.00	595	0.50
Dry Dock Infrastructure	Pumps	1	8.00	225	0.74

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Lot 20	9	10.00	0.00	574.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Dry Dock Infrastructure	9	10.00	0.00	670.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

NASSCO - Phase 1 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Lot 20 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8282	14.9209	15.1376	0.0617		0.5590	0.5590		0.5313	0.5313		5,929.1702	5,929.1702	1.3230		5,962.2454
Total	**1.8282**	**14.9209**	**15.1376**	**0.0617**		**0.5590**	**0.5590**		**0.5313**	**0.5313**		**5,929.1702**	**5,929.1702**	**1.3230**		**5,962.2454**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.5100e-003	0.2607	0.0716	1.1900e-003	0.0349	2.2100e-003	0.0371	9.5500e-003	2.1200e-003	0.0117		131.7963	131.7963	6.6400e-003	0.0210	138.2081
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0273	0.0170	0.2400	7.3000e-004	0.0822	4.4000e-004	0.0826	0.0218	4.1000e-004	0.0222		73.3664	73.3664	1.9900e-003	1.8300e-003	73.9611
Total	**0.0318**	**0.2777**	**0.3116**	**1.9200e-003**	**0.1170**	**2.6500e-003**	**0.1197**	**0.0313**	**2.5300e-003**	**0.0339**		**205.1627**	**205.1627**	**8.6300e-003**	**0.0228**	**212.1692**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Lot 20 - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7449	3.6520	25.2262	0.0617		0.1180	0.1180		0.1153	0.1153	0.0000	5,929.1702	5,929.1702	1.3230		5,962.2454
Total	**0.7449**	**3.6520**	**25.2262**	**0.0617**		**0.1180**	**0.1180**		**0.1153**	**0.1153**	**0.0000**	**5,929.1702**	**5,929.1702**	**1.3230**		**5,962.2454**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.5100e-003	0.2607	0.0716	1.1900e-003	0.0349	2.2100e-003	0.0371	9.5500e-003	2.1200e-003	0.0117		131.7963	131.7963	6.6400e-003	0.0210	138.2081
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0273	0.0170	0.2400	7.3000e-004	0.0822	4.4000e-004	0.0826	0.0218	4.1000e-004	0.0222		73.3664	73.3664	1.9900e-003	1.8300e-003	73.9611
Total	**0.0318**	**0.2777**	**0.3116**	**1.9200e-003**	**0.1170**	**2.6500e-003**	**0.1197**	**0.0313**	**2.5300e-003**	**0.0339**		**205.1627**	**205.1627**	**8.6300e-003**	**0.0228**	**212.1692**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Dry Dock Infrastructure - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8282	14.9209	15.1376	0.0617		0.5590	0.5590		0.5313	0.5313		5,929.1702	5,929.1702	1.3230		5,962.2454
Total	**1.8282**	**14.9209**	**15.1376**	**0.0617**		**0.5590**	**0.5590**		**0.5313**	**0.5313**		**5,929.1702**	**5,929.1702**	**1.3230**		**5,962.2454**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.5200e-003	0.2609	0.0717	1.1900e-003	0.0349	2.2100e-003	0.0371	9.5600e-003	2.1200e-003	0.0117		131.8619	131.8619	6.6500e-003	0.0210	138.2769
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0273	0.0170	0.2400	7.3000e-004	0.0822	4.4000e-004	0.0826	0.0218	4.1000e-004	0.0222		73.3664	73.3664	1.9900e-003	1.8300e-003	73.9611
Total	**0.0319**	**0.2778**	**0.3117**	**1.9200e-003**	**0.1170**	**2.6500e-003**	**0.1197**	**0.0314**	**2.5300e-003**	**0.0339**		**205.2283**	**205.2283**	**8.6400e-003**	**0.0228**	**212.2380**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Dry Dock Infrastructure - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7449	3.6520	25.2262	0.0617		0.1180	0.1180		0.1153	0.1153	0.0000	5,929.1702	5,929.1702	1.3230		5,962.2454
Total	**0.7449**	**3.6520**	**25.2262**	**0.0617**		**0.1180**	**0.1180**		**0.1153**	**0.1153**	**0.0000**	**5,929.1702**	**5,929.1702**	**1.3230**		**5,962.2454**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.5200e-003	0.2609	0.0717	1.1900e-003	0.0349	2.2100e-003	0.0371	9.5600e-003	2.1200e-003	0.0117		131.8619	131.8619	6.6500e-003	0.0210	138.2769
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0273	0.0170	0.2400	7.3000e-004	0.0822	4.4000e-004	0.0826	0.0218	4.1000e-004	0.0222		73.3664	73.3664	1.9900e-003	1.8300e-003	73.9611
Total	**0.0319**	**0.2778**	**0.3117**	**1.9200e-003**	**0.1170**	**2.6500e-003**	**0.1197**	**0.0314**	**2.5300e-003**	**0.0339**		**205.2283**	**205.2283**	**8.6400e-003**	**0.0228**	**212.2380**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Dry Dock Infrastructure - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7668	13.7718	15.0203	0.0618		0.5125	0.5125		0.4859	0.4859		5,934.4124	5,934.4124	1.3234		5,967.4970
Total	**1.7668**	**13.7718**	**15.0203**	**0.0618**		**0.5125**	**0.5125**		**0.4859**	**0.4859**		**5,934.4124**	**5,934.4124**	**1.3234**		**5,967.4970**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.4600e-003	0.2586	0.0727	1.1700e-003	0.0349	2.2300e-003	0.0371	9.5600e-003	2.1300e-003	0.0117		129.5406	129.5406	6.8500e-003	0.0206	135.8552
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0257	0.0153	0.2239	7.0000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.9000e-004	0.0222		70.9559	70.9559	1.8100e-003	1.7100e-003	71.5104
Total	**0.0301**	**0.2738**	**0.2965**	**1.8700e-003**	**0.1170**	**2.6500e-003**	**0.1197**	**0.0314**	**2.5200e-003**	**0.0339**		**200.4964**	**200.4964**	**8.6600e-003**	**0.0223**	**207.3657**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Dry Dock Infrastructure - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7429	3.5926	25.2296	0.0618		0.1171	0.1171		0.1144	0.1144	0.0000	5,934.4124	5,934.4124	1.3234		5,967.4970
Total	**0.7429**	**3.5926**	**25.2296**	**0.0618**		**0.1171**	**0.1171**		**0.1144**	**0.1144**	**0.0000**	**5,934.4124**	**5,934.4124**	**1.3234**		**5,967.4970**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.4600e-003	0.2586	0.0727	1.1700e-003	0.0349	2.2300e-003	0.0371	9.5600e-003	2.1300e-003	0.0117		129.5406	129.5406	6.8500e-003	0.0206	135.8552
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0257	0.0153	0.2239	7.0000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.9000e-004	0.0222		70.9559	70.9559	1.8100e-003	1.7100e-003	71.5104
Total	**0.0301**	**0.2738**	**0.2965**	**1.8700e-003**	**0.1170**	**2.6500e-003**	**0.1197**	**0.0314**	**2.5200e-003**	**0.0339**		**200.4964**	**200.4964**	**8.6600e-003**	**0.0223**	**207.3657**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.9499	3.3180	24.6529	0.0567	5.2781	0.0417	5.3198	1.3153	0.0390	1.3543		5,789.2219	5,789.2219	0.3135	0.2587	5,874.1480
Unmitigated	5.9499	3.3180	24.6529	0.0567	5.2781	0.0417	5.3198	1.3153	0.0390	1.3543		5,789.2219	5,789.2219	0.3135	0.2587	5,874.1480

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	572.60	935.39	741.61	1,893,517	1,893,517
Total	572.60	935.39	741.61	1,893,517	1,893,517

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0496	0.4508	0.3787	2.7000e-003		0.0343	0.0343		0.0343	0.0343		540.9926	540.9926	0.0104	9.9200e-003	544.2074
NaturalGas Unmitigated	0.0496	0.4508	0.3787	2.7000e-003		0.0343	0.0343		0.0343	0.0343		540.9926	540.9926	0.0104	9.9200e-003	544.2074

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	4598.44	0.0496	0.4508	0.3787	2.7000e-003		0.0343	0.0343		0.0343	0.0343		540.9926	540.9926	0.0104	9.9200e-003	544.2074
Total		**0.0496**	**0.4508**	**0.3787**	**2.7000e-003**		**0.0343**	**0.0343**		**0.0343**	**0.0343**		**540.9926**	**540.9926**	**0.0104**	**9.9200e-003**	**544.2074**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	4.59844	0.0496	0.4508	0.3787	2.7000e-003		0.0343	0.0343		0.0343	0.0343		540.9926	540.9926	0.0104	9.9200e-003	544.2074
Total		**0.0496**	**0.4508**	**0.3787**	**2.7000e-003**		**0.0343**	**0.0343**		**0.0343**	**0.0343**		**540.9926**	**540.9926**	**0.0104**	**9.9200e-003**	**544.2074**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.0444	1.3000e-004	0.0148	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0319	0.0319	8.0000e-005		0.0340
Unmitigated	4.0444	1.3000e-004	0.0148	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0319	0.0319	8.0000e-005		0.0340

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.9251					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.1179					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3700e-003	1.3000e-004	0.0148	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0319	0.0319	8.0000e-005		0.0340
Total	**4.0444**	**1.3000e-004**	**0.0148**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**		**0.0319**	**0.0319**	**8.0000e-005**		**0.0340**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.9251					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.1179					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3700e-003	1.3000e-004	0.0148	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0319	0.0319	8.0000e-005		0.0340
Total	**4.0444**	**1.3000e-004**	**0.0148**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**		**0.0319**	**0.0319**	**8.0000e-005**		**0.0340**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	12.60	1000sqft	0.29	12,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2026
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Repair Complex Wharf includes approximately 12,600 square feet of timber deck planks, timber stringers, and timber pile caps.

Construction Phase - Client provided information. Phase 2 (Sept 17, 2024 - July 9, 2025): Repair/improvements to the Repair Complex Wharf.

Off-road Equipment - Client supplied equipment list

Off-road Equipment - Client Provided Data.

Trips and VMT - 2 haul truck trips per day per client. Most materials will be transported via water access.

Vehicle Trips -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use -

Construction Off-road Equipment Mitigation - Mitigation: At least 90% of engines Tier 4.

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	100.00	296.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblOffRoadEquipment	HorsePower	231.00	282.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	85.00	10.00
tblOffRoadEquipment	HorsePower	158.00	242.00
tblOffRoadEquipment	HorsePower	402.00	385.00
tblOffRoadEquipment	HorsePower	172.00	595.00
tblOffRoadEquipment	HorsePower	84.00	225.00
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	UsageHours	4.00	8.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblTripsAndVMT	HaulingTripNumber	0.00	546.00
tblTripsAndVMT	VendorTripNumber	2.00	0.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblVehicleEF	HHD	0.03	0.71
tblVehicleEF	HHD	0.08	0.06
tblVehicleEF	HHD	6.62	76.55
tblVehicleEF	HHD	0.52	0.50
tblVehicleEF	HHD	7.8570e-003	2.5080e-003
tblVehicleEF	HHD	1,056.67	11,481.16
tblVehicleEF	HHD	1,354.33	1,449.81
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	0.17	1.82
tblVehicleEF	HHD	0.22	0.23
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	5.60	63.27
tblVehicleEF	HHD	2.55	1.66
tblVehicleEF	HHD	2.37	2.66
tblVehicleEF	HHD	2.7180e-003	0.03
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	2.6000e-003	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8710e-003	8.8370e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	3.0000e-006	3.0070e-003
tblVehicleEF	HHD	1.4200e-004	4.2000e-005
tblVehicleEF	HHD	0.44	5.14
tblVehicleEF	HHD	0.03	0.02

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	HHD	6.0000e-005	1.5500e-004
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	9.7530e-003	0.11
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	3.0000e-006	3.0070e-003
tblVehicleEF	HHD	1.4200e-004	4.2000e-005
tblVehicleEF	HHD	0.51	6.33
tblVehicleEF	HHD	0.11	0.08
tblVehicleEF	HHD	6.0000e-005	1.5500e-004
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.74
tblVehicleEF	HHD	0.08	0.06
tblVehicleEF	HHD	6.53	76.53
tblVehicleEF	HHD	0.52	0.52
tblVehicleEF	HHD	7.3850e-003	2.2820e-003
tblVehicleEF	HHD	1,044.54	11,332.25
tblVehicleEF	HHD	1,354.33	1,433.35
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	0.17	1.80
tblVehicleEF	HHD	0.22	0.23
tblVehicleEF	HHD	5.35	62.43
tblVehicleEF	HHD	2.46	1.59
tblVehicleEF	HHD	2.37	2.67
tblVehicleEF	HHD	2.3780e-003	0.03
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	HHD	2.2750e-003	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8710e-003	8.8380e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	4.0000e-006	2.5580e-003
tblVehicleEF	HHD	1.4600e-004	3.4000e-005
tblVehicleEF	HHD	0.47	5.14
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	5.8000e-005	1.3900e-004
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	9.6410e-003	0.10
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	4.0000e-006	2.5580e-003
tblVehicleEF	HHD	1.4600e-004	3.4000e-005
tblVehicleEF	HHD	0.54	6.36
tblVehicleEF	HHD	0.11	0.08
tblVehicleEF	HHD	5.8000e-005	1.3900e-004
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.80
tblVehicleEF	HHD	0.08	0.08
tblVehicleEF	HHD	6.75	80.34
tblVehicleEF	HHD	0.52	0.57
tblVehicleEF	HHD	8.0660e-003	5.0770e-003
tblVehicleEF	HHD	1,073.41	13,127.44
tblVehicleEF	HHD	1,354.33	1,652.70
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	0.17	2.08

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	HHD	0.22	0.26
tblVehicleEF	HHD	1.0000e-006	8.0000e-006
tblVehicleEF	HHD	5.95	70.64
tblVehicleEF	HHD	2.54	2.06
tblVehicleEF	HHD	2.37	2.75
tblVehicleEF	HHD	3.1870e-003	0.04
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	3.0490e-003	0.04
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8710e-003	8.8310e-003
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	2.0000e-006	8.0720e-003
tblVehicleEF	HHD	1.5800e-004	1.1600e-004
tblVehicleEF	HHD	0.41	4.92
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	6.6000e-005	3.1900e-004
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	HHD	9.9090e-003	0.12
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	2.0000e-006	8.0720e-003
tblVehicleEF	HHD	1.5800e-004	1.1600e-004
tblVehicleEF	HHD	0.47	6.17
tblVehicleEF	HHD	0.11	0.11
tblVehicleEF	HHD	6.6000e-005	3.1900e-004
tblVehicleEF	HHD	3.0000e-006	1.0000e-006

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDA	1.4500e-003	1.9870e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.45	0.57
tblVehicleEF	LDA	1.85	2.34
tblVehicleEF	LDA	238.22	252.96
tblVehicleEF	LDA	48.60	60.27
tblVehicleEF	LDA	3.5940e-003	3.7030e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.14	0.20
tblVehicleEF	LDA	0.04	7.0230e-003
tblVehicleEF	LDA	1.3240e-003	1.2570e-003
tblVehicleEF	LDA	1.6070e-003	1.6670e-003
tblVehicleEF	LDA	0.02	2.4580e-003
tblVehicleEF	LDA	1.2200e-003	1.1560e-003
tblVehicleEF	LDA	1.4770e-003	1.5330e-003
tblVehicleEF	LDA	0.03	1.20
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	5.1340e-003	7.1680e-003
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.16	0.23
tblVehicleEF	LDA	2.2680e-003	2.5010e-003
tblVehicleEF	LDA	4.6300e-004	5.9600e-004
tblVehicleEF	LDA	0.03	1.20
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	7.4530e-003	0.01
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.17	0.25
tblVehicleEF	LDA	1.5800e-003	1.9740e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.53	2.29
tblVehicleEF	LDA	251.40	253.65
tblVehicleEF	LDA	48.01	60.06
tblVehicleEF	LDA	3.3860e-003	3.6470e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.13	0.20
tblVehicleEF	LDA	0.04	7.0210e-003
tblVehicleEF	LDA	1.3240e-003	1.2510e-003
tblVehicleEF	LDA	1.6070e-003	1.6610e-003
tblVehicleEF	LDA	0.02	2.4570e-003
tblVehicleEF	LDA	1.2200e-003	1.1520e-003
tblVehicleEF	LDA	1.4770e-003	1.5270e-003
tblVehicleEF	LDA	0.05	1.22
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	5.5230e-003	7.0860e-003
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.14	0.23
tblVehicleEF	LDA	2.3930e-003	2.5070e-003
tblVehicleEF	LDA	4.5700e-004	5.9400e-004
tblVehicleEF	LDA	0.05	1.22
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	8.0200e-003	0.01
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.15	0.25
tblVehicleEF	LDA	1.4190e-003	2.8490e-003
tblVehicleEF	LDA	0.04	0.07

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDA	0.44	0.70
tblVehicleEF	LDA	1.99	3.25
tblVehicleEF	LDA	235.83	281.69
tblVehicleEF	LDA	48.85	68.09
tblVehicleEF	LDA	3.6170e-003	4.6970e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	0.15	0.25
tblVehicleEF	LDA	0.04	7.1270e-003
tblVehicleEF	LDA	1.3240e-003	1.6660e-003
tblVehicleEF	LDA	1.6070e-003	2.0740e-003
tblVehicleEF	LDA	0.02	2.4940e-003
tblVehicleEF	LDA	1.2200e-003	1.5340e-003
tblVehicleEF	LDA	1.4770e-003	1.9070e-003
tblVehicleEF	LDA	0.02	1.35
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	5.0490e-003	0.01
tblVehicleEF	LDA	0.03	0.22
tblVehicleEF	LDA	0.16	0.33
tblVehicleEF	LDA	2.2450e-003	2.7840e-003
tblVehicleEF	LDA	4.6500e-004	6.7300e-004
tblVehicleEF	LDA	0.02	1.35
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	7.3290e-003	0.02
tblVehicleEF	LDA	0.03	0.22
tblVehicleEF	LDA	0.18	0.36
tblVehicleEF	LDT1	3.9870e-003	7.4770e-003
tblVehicleEF	LDT1	0.06	0.10
tblVehicleEF	LDT1	0.85	1.41

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT1	2.08	4.84
tblVehicleEF	LDT1	293.53	340.26
tblVehicleEF	LDT1	60.76	83.40
tblVehicleEF	LDT1	5.9770e-003	9.3350e-003
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.07	0.12
tblVehicleEF	LDT1	0.21	0.37
tblVehicleEF	LDT1	0.04	9.2390e-003
tblVehicleEF	LDT1	1.7290e-003	2.1880e-003
tblVehicleEF	LDT1	2.0790e-003	2.7210e-003
tblVehicleEF	LDT1	0.02	3.2340e-003
tblVehicleEF	LDT1	1.5910e-003	2.0130e-003
tblVehicleEF	LDT1	1.9110e-003	2.5020e-003
tblVehicleEF	LDT1	0.09	3.05
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.08	0.53
tblVehicleEF	LDT1	0.27	0.51
tblVehicleEF	LDT1	2.7950e-003	3.3640e-003
tblVehicleEF	LDT1	5.7800e-004	8.2400e-004
tblVehicleEF	LDT1	0.09	3.05
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.02	0.05
tblVehicleEF	LDT1	0.08	0.53
tblVehicleEF	LDT1	0.30	0.56
tblVehicleEF	LDT1	4.3050e-003	7.4210e-003
tblVehicleEF	LDT1	0.05	0.10
tblVehicleEF	LDT1	0.95	1.43
tblVehicleEF	LDT1	1.72	4.70

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT1	307.49	341.45
tblVehicleEF	LDT1	60.04	83.03
tblVehicleEF	LDT1	5.5760e-003	9.1450e-003
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.06	0.12
tblVehicleEF	LDT1	0.19	0.37
tblVehicleEF	LDT1	0.04	9.2400e-003
tblVehicleEF	LDT1	1.7290e-003	2.1720e-003
tblVehicleEF	LDT1	2.0790e-003	2.7020e-003
tblVehicleEF	LDT1	0.02	3.2340e-003
tblVehicleEF	LDT1	1.5910e-003	1.9980e-003
tblVehicleEF	LDT1	1.9110e-003	2.4850e-003
tblVehicleEF	LDT1	0.13	3.10
tblVehicleEF	LDT1	0.18	0.18
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.08	0.53
tblVehicleEF	LDT1	0.24	0.50
tblVehicleEF	LDT1	2.9270e-003	3.3760e-003
tblVehicleEF	LDT1	5.7200e-004	8.2100e-004
tblVehicleEF	LDT1	0.13	3.10
tblVehicleEF	LDT1	0.18	0.18
tblVehicleEF	LDT1	0.03	0.05
tblVehicleEF	LDT1	0.08	0.53
tblVehicleEF	LDT1	0.26	0.54
tblVehicleEF	LDT1	3.9100e-003	0.01
tblVehicleEF	LDT1	0.06	0.13
tblVehicleEF	LDT1	0.83	1.84
tblVehicleEF	LDT1	2.23	6.81
tblVehicleEF	LDT1	291.00	362.43

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT1	61.06	91.86
tblVehicleEF	LDT1	6.0270e-003	0.01
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.07	0.19
tblVehicleEF	LDT1	0.22	0.48
tblVehicleEF	LDT1	0.04	9.2870e-003
tblVehicleEF	LDT1	1.7290e-003	2.8810e-003
tblVehicleEF	LDT1	2.0790e-003	3.4250e-003
tblVehicleEF	LDT1	0.02	3.2500e-003
tblVehicleEF	LDT1	1.5910e-003	2.6510e-003
tblVehicleEF	LDT1	1.9110e-003	3.1490e-003
tblVehicleEF	LDT1	0.07	3.43
tblVehicleEF	LDT1	0.20	0.21
tblVehicleEF	LDT1	0.02	0.05
tblVehicleEF	LDT1	0.10	0.66
tblVehicleEF	LDT1	0.29	0.71
tblVehicleEF	LDT1	2.7710e-003	3.5830e-003
tblVehicleEF	LDT1	5.8100e-004	9.0800e-004
tblVehicleEF	LDT1	0.07	3.43
tblVehicleEF	LDT1	0.20	0.21
tblVehicleEF	LDT1	0.02	0.07
tblVehicleEF	LDT1	0.10	0.66
tblVehicleEF	LDT1	0.31	0.77
tblVehicleEF	LDT2	2.6880e-003	2.9450e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.65	0.75
tblVehicleEF	LDT2	2.41	2.95
tblVehicleEF	LDT2	304.89	343.90
tblVehicleEF	LDT2	63.25	80.72

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT2	5.0640e-003	5.3400e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.21	0.28
tblVehicleEF	LDT2	0.04	8.7990e-003
tblVehicleEF	LDT2	1.3830e-003	1.4140e-003
tblVehicleEF	LDT2	1.6120e-003	1.7750e-003
tblVehicleEF	LDT2	0.02	3.0800e-003
tblVehicleEF	LDT2	1.2730e-003	1.3010e-003
tblVehicleEF	LDT2	1.4820e-003	1.6320e-003
tblVehicleEF	LDT2	0.06	1.32
tblVehicleEF	LDT2	0.11	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.24	0.30
tblVehicleEF	LDT2	2.9030e-003	3.3990e-003
tblVehicleEF	LDT2	6.0200e-004	7.9800e-004
tblVehicleEF	LDT2	0.06	1.32
tblVehicleEF	LDT2	0.11	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.26	0.33
tblVehicleEF	LDT2	2.9160e-003	2.9320e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.73	0.76
tblVehicleEF	LDT2	1.99	2.88
tblVehicleEF	LDT2	318.02	344.65
tblVehicleEF	LDT2	62.46	80.46
tblVehicleEF	LDT2	4.7530e-003	5.2550e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.19	0.27
tblVehicleEF	LDT2	0.04	8.7980e-003
tblVehicleEF	LDT2	1.3830e-003	1.4100e-003
tblVehicleEF	LDT2	1.6120e-003	1.7710e-003
tblVehicleEF	LDT2	0.02	3.0790e-003
tblVehicleEF	LDT2	1.2730e-003	1.2970e-003
tblVehicleEF	LDT2	1.4820e-003	1.6280e-003
tblVehicleEF	LDT2	0.08	1.34
tblVehicleEF	LDT2	0.12	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.21	0.30
tblVehicleEF	LDT2	3.0280e-003	3.4070e-003
tblVehicleEF	LDT2	5.9500e-004	7.9500e-004
tblVehicleEF	LDT2	0.08	1.34
tblVehicleEF	LDT2	0.12	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.23	0.32
tblVehicleEF	LDT2	2.6330e-003	4.0080e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.64	0.90
tblVehicleEF	LDT2	2.59	4.00
tblVehicleEF	LDT2	302.52	375.58
tblVehicleEF	LDT2	63.59	90.06
tblVehicleEF	LDT2	5.1000e-003	6.9200e-003
tblVehicleEF	LDT2	0.03	0.04

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.22	0.37
tblVehicleEF	LDT2	0.04	8.8250e-003
tblVehicleEF	LDT2	1.3830e-003	1.7680e-003
tblVehicleEF	LDT2	1.6120e-003	2.1270e-003
tblVehicleEF	LDT2	0.02	3.0890e-003
tblVehicleEF	LDT2	1.2730e-003	1.6270e-003
tblVehicleEF	LDT2	1.4820e-003	1.9560e-003
tblVehicleEF	LDT2	0.04	1.45
tblVehicleEF	LDT2	0.12	0.09
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.24
tblVehicleEF	LDT2	0.25	0.42
tblVehicleEF	LDT2	2.8800e-003	3.7120e-003
tblVehicleEF	LDT2	6.0500e-004	8.9000e-004
tblVehicleEF	LDT2	0.04	1.45
tblVehicleEF	LDT2	0.12	0.09
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.24
tblVehicleEF	LDT2	0.27	0.46
tblVehicleEF	LHD1	4.2580e-003	0.06
tblVehicleEF	LHD1	7.1710e-003	6.3690e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.17	2.53
tblVehicleEF	LHD1	0.67	0.70
tblVehicleEF	LHD1	0.87	1.82
tblVehicleEF	LHD1	8.93	114.95
tblVehicleEF	LHD1	730.99	686.69
tblVehicleEF	LHD1	9.84	14.76

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD1	8.5000e-004	9.1300e-003
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.07	0.68
tblVehicleEF	LHD1	0.74	0.62
tblVehicleEF	LHD1	0.25	0.33
tblVehicleEF	LHD1	1.0050e-003	0.01
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.01	9.5540e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.1000e-004	1.6200e-004
tblVehicleEF	LHD1	9.6200e-004	9.5810e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5100e-003	2.3890e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	1.9300e-004	1.4900e-004
tblVehicleEF	LHD1	1.5270e-003	1.52
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.02	0.26
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.17	0.13
tblVehicleEF	LHD1	0.05	0.08
tblVehicleEF	LHD1	8.6000e-005	1.1170e-003
tblVehicleEF	LHD1	7.1170e-003	6.6900e-003
tblVehicleEF	LHD1	9.7000e-005	1.4600e-004
tblVehicleEF	LHD1	1.5270e-003	1.52
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.03	0.37
tblVehicleEF	LHD1	0.11	0.10

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD1	0.17	0.13
tblVehicleEF	LHD1	0.06	0.09
tblVehicleEF	LHD1	4.2670e-003	0.06
tblVehicleEF	LHD1	7.2660e-003	6.3150e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.17	2.53
tblVehicleEF	LHD1	0.68	0.70
tblVehicleEF	LHD1	0.83	1.82
tblVehicleEF	LHD1	8.93	114.85
tblVehicleEF	LHD1	731.00	685.89
tblVehicleEF	LHD1	9.76	14.74
tblVehicleEF	LHD1	8.5200e-004	9.1300e-003
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.07	0.67
tblVehicleEF	LHD1	0.72	0.61
tblVehicleEF	LHD1	0.23	0.33
tblVehicleEF	LHD1	1.0050e-003	0.01
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.01	9.5550e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	2.1000e-004	1.6000e-004
tblVehicleEF	LHD1	9.6200e-004	9.5850e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5100e-003	2.3890e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	1.9300e-004	1.4700e-004
tblVehicleEF	LHD1	2.2050e-003	1.54
tblVehicleEF	LHD1	0.06	0.02

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD1	0.02	0.26
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.16	0.13
tblVehicleEF	LHD1	0.05	0.08
tblVehicleEF	LHD1	8.6000e-005	1.1160e-003
tblVehicleEF	LHD1	7.1170e-003	6.6820e-003
tblVehicleEF	LHD1	9.7000e-005	1.4600e-004
tblVehicleEF	LHD1	2.2050e-003	1.54
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.03	0.37
tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.16	0.13
tblVehicleEF	LHD1	0.06	0.09
tblVehicleEF	LHD1	4.2540e-003	0.08
tblVehicleEF	LHD1	7.1280e-003	0.01
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.17	2.69
tblVehicleEF	LHD1	0.66	1.01
tblVehicleEF	LHD1	0.90	1.94
tblVehicleEF	LHD1	8.93	126.03
tblVehicleEF	LHD1	730.98	785.08
tblVehicleEF	LHD1	9.87	16.18
tblVehicleEF	LHD1	8.4900e-004	9.8600e-003
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.07	0.83
tblVehicleEF	LHD1	0.74	1.03
tblVehicleEF	LHD1	0.25	0.42
tblVehicleEF	LHD1	1.0050e-003	0.01

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.6600e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.1000e-004	2.3900e-004
tblVehicleEF	LHD1	9.6200e-004	9.9280e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5100e-003	2.4150e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.9300e-004	2.2000e-004
tblVehicleEF	LHD1	1.3910e-003	1.93
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.02	0.31
tblVehicleEF	LHD1	0.09	0.12
tblVehicleEF	LHD1	0.19	0.18
tblVehicleEF	LHD1	0.06	0.11
tblVehicleEF	LHD1	8.6000e-005	1.2250e-003
tblVehicleEF	LHD1	7.1170e-003	7.6540e-003
tblVehicleEF	LHD1	9.8000e-005	1.6000e-004
tblVehicleEF	LHD1	1.3910e-003	1.93
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.03	0.44
tblVehicleEF	LHD1	0.11	0.15
tblVehicleEF	LHD1	0.19	0.18
tblVehicleEF	LHD1	0.06	0.12
tblVehicleEF	LHD2	2.8750e-003	0.04
tblVehicleEF	LHD2	6.1200e-003	5.7410e-003
tblVehicleEF	LHD2	6.5120e-003	9.6360e-003
tblVehicleEF	LHD2	0.13	1.83
tblVehicleEF	LHD2	0.56	0.47

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	0.52	1.02
tblVehicleEF	LHD2	13.81	170.75
tblVehicleEF	LHD2	731.57	741.80
tblVehicleEF	LHD2	7.07	8.39
tblVehicleEF	LHD2	1.7550e-003	0.02
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.09	1.05
tblVehicleEF	LHD2	0.73	0.72
tblVehicleEF	LHD2	0.16	0.19
tblVehicleEF	LHD2	1.4510e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.1000e-004	6.9000e-005
tblVehicleEF	LHD2	1.3890e-003	0.02
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7020e-003	2.6390e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.0100e-004	6.4000e-005
tblVehicleEF	LHD2	7.5100e-004	0.83
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.01	0.19
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	0.07	0.06
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	1.3200e-004	1.6370e-003
tblVehicleEF	LHD2	7.0590e-003	7.1400e-003
tblVehicleEF	LHD2	7.0000e-005	8.3000e-005

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	7.5100e-004	0.83
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.26
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.07	0.06
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	2.8810e-003	0.04
tblVehicleEF	LHD2	6.1590e-003	5.7050e-003
tblVehicleEF	LHD2	6.2430e-003	9.5460e-003
tblVehicleEF	LHD2	0.13	1.83
tblVehicleEF	LHD2	0.57	0.47
tblVehicleEF	LHD2	0.49	1.02
tblVehicleEF	LHD2	13.81	170.68
tblVehicleEF	LHD2	731.57	741.19
tblVehicleEF	LHD2	7.02	8.36
tblVehicleEF	LHD2	1.7570e-003	0.02
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.09	1.05
tblVehicleEF	LHD2	0.70	0.71
tblVehicleEF	LHD2	0.15	0.19
tblVehicleEF	LHD2	1.4510e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.1000e-004	6.8000e-005
tblVehicleEF	LHD2	1.3890e-003	0.02
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7020e-003	2.6400e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.0100e-004	6.3000e-005
tblVehicleEF	LHD2	1.0870e-003	0.84
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.01	0.19
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	0.07	0.06
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	1.3200e-004	1.6360e-003
tblVehicleEF	LHD2	7.0600e-003	7.1340e-003
tblVehicleEF	LHD2	6.9000e-005	8.3000e-005
tblVehicleEF	LHD2	1.0870e-003	0.84
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.26
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.07	0.06
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	2.8730e-003	0.05
tblVehicleEF	LHD2	6.1030e-003	8.1630e-003
tblVehicleEF	LHD2	6.6320e-003	0.01
tblVehicleEF	LHD2	0.13	2.01
tblVehicleEF	LHD2	0.56	0.65
tblVehicleEF	LHD2	0.53	1.17
tblVehicleEF	LHD2	13.81	185.66
tblVehicleEF	LHD2	731.56	843.22
tblVehicleEF	LHD2	7.09	9.91
tblVehicleEF	LHD2	1.7550e-003	0.02
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.01	0.02

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	0.09	1.29
tblVehicleEF	LHD2	0.73	1.11
tblVehicleEF	LHD2	0.16	0.26
tblVehicleEF	LHD2	1.4510e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.3890e-003	0.02
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7020e-003	2.6710e-003
tblVehicleEF	LHD2	0.01	0.03
tblVehicleEF	LHD2	6.6500e-004	1.02
tblVehicleEF	LHD2	0.04	0.02
tblVehicleEF	LHD2	0.01	0.23
tblVehicleEF	LHD2	0.11	0.14
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.03	0.07
tblVehicleEF	LHD2	1.3200e-004	1.7810e-003
tblVehicleEF	LHD2	7.0590e-003	8.1260e-003
tblVehicleEF	LHD2	7.0000e-005	9.8000e-005
tblVehicleEF	LHD2	6.6500e-004	1.02
tblVehicleEF	LHD2	0.04	0.02
tblVehicleEF	LHD2	0.02	0.32
tblVehicleEF	LHD2	0.12	0.16
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.04	0.07
tblVehicleEF	MCY	0.35	0.20
tblVehicleEF	MCY	0.24	0.16
tblVehicleEF	MCY	19.58	13.05

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tblVehicleEF	MCY	8.68	7.68
tblVehicleEF	MCY	220.25	203.25
tblVehicleEF	MCY	59.63	45.52
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	7.1880e-003
tblVehicleEF	MCY	1.15	0.56
tblVehicleEF	MCY	0.27	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.2080e-003	2.4700e-003
tblVehicleEF	MCY	2.8670e-003	3.3630e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.0620e-003	2.3070e-003
tblVehicleEF	MCY	2.6920e-003	3.1550e-003
tblVehicleEF	MCY	0.94	4.15
tblVehicleEF	MCY	0.73	3.60
tblVehicleEF	MCY	2.38	1.27
tblVehicleEF	MCY	0.48	3.78
tblVehicleEF	MCY	1.83	1.21
tblVehicleEF	MCY	2.1800e-003	2.0090e-003
tblVehicleEF	MCY	5.9000e-004	4.5000e-004
tblVehicleEF	MCY	0.94	4.15
tblVehicleEF	MCY	0.73	3.60
tblVehicleEF	MCY	2.96	1.55
tblVehicleEF	MCY	0.48	3.78
tblVehicleEF	MCY	2.00	1.31
tblVehicleEF	MCY	0.34	0.19
tblVehicleEF	MCY	0.21	0.16
tblVehicleEF	MCY	18.68	13.00
tblVehicleEF	MCY	7.76	7.61

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MCY	218.59	203.17
tblVehicleEF	MCY	57.37	45.29
tblVehicleEF	MCY	0.06	0.04
tblVehicleEF	MCY	0.01	7.1420e-003
tblVehicleEF	MCY	1.04	0.56
tblVehicleEF	MCY	0.25	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.2080e-003	2.4710e-003
tblVehicleEF	MCY	2.8670e-003	3.3530e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.0620e-003	2.3090e-003
tblVehicleEF	MCY	2.6920e-003	3.1450e-003
tblVehicleEF	MCY	1.52	4.26
tblVehicleEF	MCY	0.83	3.61
tblVehicleEF	MCY	2.31	1.27
tblVehicleEF	MCY	0.44	3.77
tblVehicleEF	MCY	1.59	1.19
tblVehicleEF	MCY	2.1630e-003	2.0090e-003
tblVehicleEF	MCY	5.6800e-004	4.4800e-004
tblVehicleEF	MCY	1.52	4.26
tblVehicleEF	MCY	0.83	3.61
tblVehicleEF	MCY	2.88	1.54
tblVehicleEF	MCY	0.44	3.77
tblVehicleEF	MCY	1.73	1.30
tblVehicleEF	MCY	0.36	0.21
tblVehicleEF	MCY	0.25	0.19
tblVehicleEF	MCY	20.21	14.65
tblVehicleEF	MCY	9.15	8.20
tblVehicleEF	MCY	221.38	205.59

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MCY	60.75	50.21
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	8.5500e-003
tblVehicleEF	MCY	1.16	0.62
tblVehicleEF	MCY	0.27	0.15
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.2080e-003	2.3570e-003
tblVehicleEF	MCY	2.8670e-003	3.5430e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.0620e-003	2.2070e-003
tblVehicleEF	MCY	2.6920e-003	3.3360e-003
tblVehicleEF	MCY	0.86	4.02
tblVehicleEF	MCY	0.98	3.58
tblVehicleEF	MCY	2.42	1.44
tblVehicleEF	MCY	0.57	4.05
tblVehicleEF	MCY	1.95	1.43
tblVehicleEF	MCY	2.1910e-003	2.0320e-003
tblVehicleEF	MCY	6.0100e-004	4.9600e-004
tblVehicleEF	MCY	0.86	4.02
tblVehicleEF	MCY	0.98	3.58
tblVehicleEF	MCY	3.01	1.72
tblVehicleEF	MCY	0.57	4.05
tblVehicleEF	MCY	2.12	1.55
tblVehicleEF	MDV	2.8350e-003	3.5470e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.65	0.81
tblVehicleEF	MDV	2.57	3.14
tblVehicleEF	MDV	368.68	413.72
tblVehicleEF	MDV	76.06	96.88

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MDV	6.5620e-003	6.9070e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.05	0.07
tblVehicleEF	MDV	0.24	0.33
tblVehicleEF	MDV	0.04	8.8900e-003
tblVehicleEF	MDV	1.4050e-003	1.4410e-003
tblVehicleEF	MDV	1.6220e-003	1.7910e-003
tblVehicleEF	MDV	0.02	3.1120e-003
tblVehicleEF	MDV	1.2960e-003	1.3280e-003
tblVehicleEF	MDV	1.4910e-003	1.6460e-003
tblVehicleEF	MDV	0.06	1.59
tblVehicleEF	MDV	0.12	0.09
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.05	0.26
tblVehicleEF	MDV	0.28	0.38
tblVehicleEF	MDV	3.5090e-003	4.0870e-003
tblVehicleEF	MDV	7.2400e-004	9.5800e-004
tblVehicleEF	MDV	0.06	1.59
tblVehicleEF	MDV	0.12	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.05	0.26
tblVehicleEF	MDV	0.30	0.41
tblVehicleEF	MDV	3.0770e-003	3.5160e-003
tblVehicleEF	MDV	0.05	0.08
tblVehicleEF	MDV	0.73	0.82
tblVehicleEF	MDV	2.12	3.06
tblVehicleEF	MDV	381.80	414.37
tblVehicleEF	MDV	75.20	96.57
tblVehicleEF	MDV	6.2380e-003	6.7840e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.05	0.07
tblVehicleEF	MDV	0.22	0.33
tblVehicleEF	MDV	0.04	8.8890e-003
tblVehicleEF	MDV	1.4050e-003	1.4340e-003
tblVehicleEF	MDV	1.6220e-003	1.7810e-003
tblVehicleEF	MDV	0.02	3.1110e-003
tblVehicleEF	MDV	1.2960e-003	1.3220e-003
tblVehicleEF	MDV	1.4910e-003	1.6380e-003
tblVehicleEF	MDV	0.10	1.61
tblVehicleEF	MDV	0.13	0.09
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.05	0.26
tblVehicleEF	MDV	0.24	0.37
tblVehicleEF	MDV	3.6340e-003	4.0940e-003
tblVehicleEF	MDV	7.1600e-004	9.5500e-004
tblVehicleEF	MDV	0.10	1.61
tblVehicleEF	MDV	0.13	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.05	0.26
tblVehicleEF	MDV	0.26	0.40
tblVehicleEF	MDV	2.7770e-003	5.3930e-003
tblVehicleEF	MDV	0.06	0.11
tblVehicleEF	MDV	0.64	1.06
tblVehicleEF	MDV	2.77	4.42
tblVehicleEF	MDV	366.31	455.28
tblVehicleEF	MDV	76.43	108.53
tblVehicleEF	MDV	6.5990e-003	9.7720e-003
tblVehicleEF	MDV	0.03	0.04

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MDV	0.05	0.12
tblVehicleEF	MDV	0.25	0.48
tblVehicleEF	MDV	0.04	8.9880e-003
tblVehicleEF	MDV	1.4050e-003	1.8920e-003
tblVehicleEF	MDV	1.6220e-003	2.2530e-003
tblVehicleEF	MDV	0.02	3.1460e-003
tblVehicleEF	MDV	1.2960e-003	1.7460e-003
tblVehicleEF	MDV	1.4910e-003	2.0720e-003
tblVehicleEF	MDV	0.05	1.79
tblVehicleEF	MDV	0.13	0.11
tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.07	0.30
tblVehicleEF	MDV	0.29	0.57
tblVehicleEF	MDV	3.4870e-003	4.4980e-003
tblVehicleEF	MDV	7.2800e-004	1.0730e-003
tblVehicleEF	MDV	0.05	1.79
tblVehicleEF	MDV	0.13	0.11
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.07	0.30
tblVehicleEF	MDV	0.32	0.63
tblVehicleEF	MH	9.7290e-003	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.93	0.94
tblVehicleEF	MH	1.86	2.11
tblVehicleEF	MH	1,500.37	1,670.37
tblVehicleEF	MH	17.47	21.04
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.50	1.58

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MH	0.24	0.31
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.2900e-004	2.5800e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.2940e-003	3.3220e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.1100e-004	2.3800e-004
tblVehicleEF	MH	0.63	2.95
tblVehicleEF	MH	0.06	7.37
tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.01	0.17
tblVehicleEF	MH	0.09	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.7300e-004	2.0800e-004
tblVehicleEF	MH	0.63	2.95
tblVehicleEF	MH	0.06	7.37
tblVehicleEF	MH	0.09	0.10
tblVehicleEF	MH	0.01	0.17
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MH	9.9500e-003	9.9380e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.96	0.91
tblVehicleEF	MH	1.74	2.08
tblVehicleEF	MH	1,500.41	1,669.46
tblVehicleEF	MH	17.27	20.96
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MH	1.43	1.57
tblVehicleEF	MH	0.23	0.31
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.2900e-004	2.5500e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.2940e-003	3.3230e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.1100e-004	2.3500e-004
tblVehicleEF	MH	0.87	3.00
tblVehicleEF	MH	0.06	7.35
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.01	0.17
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.7100e-004	2.0700e-004
tblVehicleEF	MH	0.87	3.00
tblVehicleEF	MH	0.06	7.35
tblVehicleEF	MH	0.09	0.10
tblVehicleEF	MH	0.01	0.17
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MH	9.6330e-003	0.01
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.92	1.61
tblVehicleEF	MH	1.91	2.57
tblVehicleEF	MH	1,500.35	1,699.67
tblVehicleEF	MH	17.57	22.98
tblVehicleEF	MH	0.06	0.07

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.50	1.69
tblVehicleEF	MH	0.25	0.30
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	2.2900e-004	3.1900e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.2940e-003	3.2890e-003
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	2.1100e-004	2.9400e-004
tblVehicleEF	MH	0.63	3.41
tblVehicleEF	MH	0.07	9.37
tblVehicleEF	MH	0.07	0.10
tblVehicleEF	MH	0.02	0.22
tblVehicleEF	MH	0.09	0.12
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.7400e-004	2.2700e-004
tblVehicleEF	MH	0.63	3.41
tblVehicleEF	MH	0.07	9.37
tblVehicleEF	MH	0.09	0.13
tblVehicleEF	MH	0.02	0.22
tblVehicleEF	MH	0.10	0.13
tblVehicleEF	MHD	3.9580e-003	0.25
tblVehicleEF	MHD	1.5800e-003	0.01
tblVehicleEF	MHD	9.4840e-003	9.5600e-003
tblVehicleEF	MHD	0.41	8.81
tblVehicleEF	MHD	0.21	0.30
tblVehicleEF	MHD	1.04	1.07

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	74.87	1,724.30
tblVehicleEF	MHD	1,055.03	1,131.79
tblVehicleEF	MHD	9.63	9.53
tblVehicleEF	MHD	0.01	0.26
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	8.0040e-003	6.7900e-003
tblVehicleEF	MHD	0.43	8.99
tblVehicleEF	MHD	1.38	0.76
tblVehicleEF	MHD	1.67	1.17
tblVehicleEF	MHD	3.0700e-004	0.01
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	6.6930e-003	7.1540e-003
tblVehicleEF	MHD	1.1700e-004	1.1500e-004
tblVehicleEF	MHD	2.9400e-004	0.01
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.3960e-003	6.8340e-003
tblVehicleEF	MHD	1.0800e-004	1.0500e-004
tblVehicleEF	MHD	3.5100e-004	0.55
tblVehicleEF	MHD	0.02	6.3890e-003
tblVehicleEF	MHD	0.02	0.37
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	7.1000e-004	0.02
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.5000e-005	9.4000e-005
tblVehicleEF	MHD	3.5100e-004	0.55
tblVehicleEF	MHD	0.02	6.3890e-003
tblVehicleEF	MHD	0.03	0.68

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	3.7660e-003	0.25
tblVehicleEF	MHD	1.6120e-003	0.01
tblVehicleEF	MHD	9.0750e-003	9.4740e-003
tblVehicleEF	MHD	0.35	8.74
tblVehicleEF	MHD	0.21	0.29
tblVehicleEF	MHD	0.98	1.06
tblVehicleEF	MHD	74.86	1,721.96
tblVehicleEF	MHD	1,055.04	1,131.13
tblVehicleEF	MHD	9.52	9.48
tblVehicleEF	MHD	0.01	0.26
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	7.7690e-003	6.7670e-003
tblVehicleEF	MHD	0.42	8.89
tblVehicleEF	MHD	1.33	0.73
tblVehicleEF	MHD	1.66	1.18
tblVehicleEF	MHD	2.6200e-004	0.01
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	6.6930e-003	6.9530e-003
tblVehicleEF	MHD	1.1700e-004	1.1300e-004
tblVehicleEF	MHD	2.5100e-004	0.01
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.3960e-003	6.6410e-003
tblVehicleEF	MHD	1.0800e-004	1.0400e-004
tblVehicleEF	MHD	5.1600e-004	0.55
tblVehicleEF	MHD	0.02	6.3370e-003
tblVehicleEF	MHD	0.02	0.37

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	7.1000e-004	0.02
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.1600e-004	0.55
tblVehicleEF	MHD	0.02	6.3370e-003
tblVehicleEF	MHD	0.03	0.68
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	4.2350e-003	0.28
tblVehicleEF	MHD	1.5650e-003	0.02
tblVehicleEF	MHD	9.6460e-003	0.01
tblVehicleEF	MHD	0.49	11.28
tblVehicleEF	MHD	0.21	0.56
tblVehicleEF	MHD	1.07	1.58
tblVehicleEF	MHD	74.88	1,887.62
tblVehicleEF	MHD	1,055.03	1,285.82
tblVehicleEF	MHD	9.68	12.26
tblVehicleEF	MHD	0.01	0.28
tblVehicleEF	MHD	0.13	0.15
tblVehicleEF	MHD	8.1510e-003	8.5840e-003
tblVehicleEF	MHD	0.45	10.83
tblVehicleEF	MHD	1.38	1.19
tblVehicleEF	MHD	1.67	1.30
tblVehicleEF	MHD	3.6900e-004	0.03
tblVehicleEF	MHD	0.13	0.05
tblVehicleEF	MHD	6.6930e-003	0.01

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	1.1700e-004	1.5600e-004
tblVehicleEF	MHD	3.5300e-004	0.03
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.3960e-003	0.01
tblVehicleEF	MHD	1.0800e-004	1.4300e-004
tblVehicleEF	MHD	3.1400e-004	0.83
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.46
tblVehicleEF	MHD	0.01	0.05
tblVehicleEF	MHD	0.02	0.07
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	7.1000e-004	0.02
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.6000e-005	1.2100e-004
tblVehicleEF	MHD	3.1400e-004	0.83
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.03	0.82
tblVehicleEF	MHD	0.02	0.07
tblVehicleEF	MHD	0.02	0.07
tblVehicleEF	MHD	0.05	0.08
tblVehicleEF	OBUS	8.7420e-003	0.26
tblVehicleEF	OBUS	6.8350e-003	0.05
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.63	9.17
tblVehicleEF	OBUS	0.76	1.04
tblVehicleEF	OBUS	2.47	2.76
tblVehicleEF	OBUS	89.37	1,193.58
tblVehicleEF	OBUS	1,448.38	1,469.43
tblVehicleEF	OBUS	19.41	20.95

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	0.01	0.15
tblVehicleEF	OBUS	0.10	0.12
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.36	3.95
tblVehicleEF	OBUS	1.20	1.01
tblVehicleEF	OBUS	0.79	0.69
tblVehicleEF	OBUS	1.2200e-004	4.6030e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.7900e-003	0.02
tblVehicleEF	OBUS	2.4600e-004	2.3600e-004
tblVehicleEF	OBUS	1.1700e-004	4.3990e-003
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.4290e-003	0.02
tblVehicleEF	OBUS	2.2600e-004	2.1700e-004
tblVehicleEF	OBUS	1.8900e-003	2.46
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.83
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	0.12	0.13
tblVehicleEF	OBUS	8.5100e-004	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.9200e-004	2.0700e-004
tblVehicleEF	OBUS	1.8900e-003	2.46
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.07	1.22
tblVehicleEF	OBUS	0.05	0.13
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	0.13	0.14

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	8.8350e-003	0.26
tblVehicleEF	OBUS	7.0170e-003	0.05
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.63	9.20
tblVehicleEF	OBUS	0.78	1.03
tblVehicleEF	OBUS	2.31	2.74
tblVehicleEF	OBUS	88.36	1,193.76
tblVehicleEF	OBUS	1,448.41	1,468.06
tblVehicleEF	OBUS	19.14	20.88
tblVehicleEF	OBUS	0.01	0.15
tblVehicleEF	OBUS	0.10	0.12
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.34	3.91
tblVehicleEF	OBUS	1.14	0.99
tblVehicleEF	OBUS	0.77	0.69
tblVehicleEF	OBUS	1.0800e-004	4.5380e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.7900e-003	0.02
tblVehicleEF	OBUS	2.4600e-004	2.3500e-004
tblVehicleEF	OBUS	1.0400e-004	4.3370e-003
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.4290e-003	0.02
tblVehicleEF	OBUS	2.2600e-004	2.1600e-004
tblVehicleEF	OBUS	2.6560e-003	2.51
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.83
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	0.11	0.13

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	8.4100e-004	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.8900e-004	2.0600e-004
tblVehicleEF	OBUS	2.6560e-003	2.51
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.07	1.22
tblVehicleEF	OBUS	0.06	0.13
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	0.12	0.14
tblVehicleEF	OBUS	8.6320e-003	0.26
tblVehicleEF	OBUS	6.7550e-003	0.05
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.64	8.66
tblVehicleEF	OBUS	0.75	1.54
tblVehicleEF	OBUS	2.54	3.36
tblVehicleEF	OBUS	90.77	1,099.60
tblVehicleEF	OBUS	1,448.37	1,620.27
tblVehicleEF	OBUS	19.53	24.35
tblVehicleEF	OBUS	0.01	0.13
tblVehicleEF	OBUS	0.10	0.13
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.38	3.99
tblVehicleEF	OBUS	1.20	1.19
tblVehicleEF	OBUS	0.79	0.69
tblVehicleEF	OBUS	1.4100e-004	6.0400e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.7900e-003	0.02
tblVehicleEF	OBUS	2.4600e-004	2.7700e-004
tblVehicleEF	OBUS	1.3500e-004	5.7740e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.4290e-003	0.02
tblVehicleEF	OBUS	2.2600e-004	2.5500e-004
tblVehicleEF	OBUS	1.8230e-003	2.53
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.80
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.10	0.11
tblVehicleEF	OBUS	0.12	0.16
tblVehicleEF	OBUS	8.6400e-004	0.01
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	1.9300e-004	2.4100e-004
tblVehicleEF	OBUS	1.8230e-003	2.53
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.07	1.20
tblVehicleEF	OBUS	0.05	0.17
tblVehicleEF	OBUS	0.10	0.11
tblVehicleEF	OBUS	0.13	0.17
tblVehicleEF	SBUS	0.03	0.24
tblVehicleEF	SBUS	6.7050e-003	0.03
tblVehicleEF	SBUS	2.8650e-003	2.9830e-003
tblVehicleEF	SBUS	1.54	7.19
tblVehicleEF	SBUS	0.51	0.81
tblVehicleEF	SBUS	0.41	0.40
tblVehicleEF	SBUS	329.08	2,099.51
tblVehicleEF	SBUS	1,051.95	960.38
tblVehicleEF	SBUS	2.28	2.07
tblVehicleEF	SBUS	0.05	0.32
tblVehicleEF	SBUS	0.15	0.13

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	2.3850e-003	2.0080e-003
tblVehicleEF	SBUS	3.68	21.13
tblVehicleEF	SBUS	6.20	3.27
tblVehicleEF	SBUS	0.79	0.42
tblVehicleEF	SBUS	4.2070e-003	0.02
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.02
tblVehicleEF	SBUS	3.7000e-005	2.6000e-005
tblVehicleEF	SBUS	4.0250e-003	0.02
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.7990e-003	2.7230e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	3.4000e-005	2.4000e-005
tblVehicleEF	SBUS	2.4800e-004	0.10
tblVehicleEF	SBUS	2.7270e-003	5.9700e-003
tblVehicleEF	SBUS	0.16	0.53
tblVehicleEF	SBUS	0.10	0.07
tblVehicleEF	SBUS	5.0980e-003	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	3.1230e-003	0.02
tblVehicleEF	SBUS	0.01	9.0850e-003
tblVehicleEF	SBUS	2.3000e-005	2.0000e-005
tblVehicleEF	SBUS	2.4800e-004	0.10
tblVehicleEF	SBUS	2.7270e-003	5.9700e-003
tblVehicleEF	SBUS	0.22	0.86
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	5.0980e-003	0.14
tblVehicleEF	SBUS	0.02	0.02

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	0.03	0.24
tblVehicleEF	SBUS	6.7740e-003	0.03
tblVehicleEF	SBUS	2.4930e-003	2.9490e-003
tblVehicleEF	SBUS	1.49	7.18
tblVehicleEF	SBUS	0.51	0.81
tblVehicleEF	SBUS	0.32	0.39
tblVehicleEF	SBUS	339.04	2,104.57
tblVehicleEF	SBUS	1,051.96	959.76
tblVehicleEF	SBUS	2.13	2.05
tblVehicleEF	SBUS	0.05	0.32
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	2.2890e-003	2.0090e-003
tblVehicleEF	SBUS	3.77	21.12
tblVehicleEF	SBUS	5.98	3.23
tblVehicleEF	SBUS	0.79	0.42
tblVehicleEF	SBUS	3.5540e-003	0.02
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.02
tblVehicleEF	SBUS	3.7000e-005	2.6000e-005
tblVehicleEF	SBUS	3.4000e-003	0.02
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.7990e-003	2.7230e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	3.4000e-005	2.4000e-005
tblVehicleEF	SBUS	3.5400e-004	0.11
tblVehicleEF	SBUS	2.8050e-003	5.9570e-003
tblVehicleEF	SBUS	0.16	0.53
tblVehicleEF	SBUS	0.10	0.07

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	4.4360e-003	0.14
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	3.2170e-003	0.02
tblVehicleEF	SBUS	0.01	9.0790e-003
tblVehicleEF	SBUS	2.1000e-005	2.0000e-005
tblVehicleEF	SBUS	3.5400e-004	0.11
tblVehicleEF	SBUS	2.8050e-003	5.9570e-003
tblVehicleEF	SBUS	0.22	0.86
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	4.4360e-003	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.03	0.20
tblVehicleEF	SBUS	6.6730e-003	0.03
tblVehicleEF	SBUS	3.0490e-003	3.5710e-003
tblVehicleEF	SBUS	1.59	6.71
tblVehicleEF	SBUS	0.50	1.34
tblVehicleEF	SBUS	0.45	0.57
tblVehicleEF	SBUS	315.32	2,191.16
tblVehicleEF	SBUS	1,051.94	1,071.53
tblVehicleEF	SBUS	2.35	2.33
tblVehicleEF	SBUS	0.05	0.34
tblVehicleEF	SBUS	0.15	0.15
tblVehicleEF	SBUS	2.4480e-003	1.8230e-003
tblVehicleEF	SBUS	3.56	26.46
tblVehicleEF	SBUS	6.18	5.32
tblVehicleEF	SBUS	0.79	0.35
tblVehicleEF	SBUS	5.1090e-003	0.04
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	3.7000e-005	2.8000e-005
tblVehicleEF	SBUS	4.8880e-003	0.04
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.7990e-003	2.7500e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	3.4000e-005	2.6000e-005
tblVehicleEF	SBUS	2.3700e-004	0.13
tblVehicleEF	SBUS	2.8760e-003	8.5790e-003
tblVehicleEF	SBUS	0.16	0.52
tblVehicleEF	SBUS	0.10	0.11
tblVehicleEF	SBUS	6.5520e-003	0.20
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.9930e-003	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.3700e-004	0.13
tblVehicleEF	SBUS	2.8760e-003	8.5790e-003
tblVehicleEF	SBUS	0.22	0.82
tblVehicleEF	SBUS	0.12	0.16
tblVehicleEF	SBUS	6.5520e-003	0.20
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	UBUS	4.89	2.27
tblVehicleEF	UBUS	0.02	5.3340e-003
tblVehicleEF	UBUS	38.17	29.02
tblVehicleEF	UBUS	1.22	0.76
tblVehicleEF	UBUS	1,896.29	1,072.80
tblVehicleEF	UBUS	13.82	5.22
tblVehicleEF	UBUS	0.31	0.20
tblVehicleEF	UBUS	0.01	7.7200e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	UBUS	0.41	0.16
tblVehicleEF	UBUS	0.13	0.05
tblVehicleEF	UBUS	0.07	0.10
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1030e-003	3.0700e-004
tblVehicleEF	UBUS	1.7700e-004	2.6000e-005
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9470e-003	2.8900e-004
tblVehicleEF	UBUS	1.6300e-004	2.4000e-005
tblVehicleEF	UBUS	5.5800e-004	0.06
tblVehicleEF	UBUS	6.6510e-003	4.5170e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	1.1160e-003	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	3.6950e-003	9.5100e-004
tblVehicleEF	UBUS	1.3700e-004	5.2000e-005
tblVehicleEF	UBUS	5.5800e-004	0.06
tblVehicleEF	UBUS	6.6510e-003	4.5170e-003
tblVehicleEF	UBUS	5.00	2.32
tblVehicleEF	UBUS	1.1160e-003	0.01
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	4.89	2.29
tblVehicleEF	UBUS	0.01	5.2980e-003
tblVehicleEF	UBUS	38.17	29.21
tblVehicleEF	UBUS	1.05	0.75
tblVehicleEF	UBUS	1,896.29	1,072.31
tblVehicleEF	UBUS	13.53	5.21
tblVehicleEF	UBUS	0.31	0.20

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	UBUS	0.01	7.7000e-003
tblVehicleEF	UBUS	0.40	0.15
tblVehicleEF	UBUS	0.13	0.05
tblVehicleEF	UBUS	0.07	0.10
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1030e-003	3.0800e-004
tblVehicleEF	UBUS	1.7700e-004	2.6000e-005
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9470e-003	2.9000e-004
tblVehicleEF	UBUS	1.6300e-004	2.4000e-005
tblVehicleEF	UBUS	7.9100e-004	0.06
tblVehicleEF	UBUS	7.1380e-003	4.5490e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	1.0150e-003	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	3.6950e-003	9.5100e-004
tblVehicleEF	UBUS	1.3400e-004	5.2000e-005
tblVehicleEF	UBUS	7.9100e-004	0.06
tblVehicleEF	UBUS	7.1380e-003	4.5490e-003
tblVehicleEF	UBUS	5.00	2.34
tblVehicleEF	UBUS	1.0150e-003	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	4.89	2.14
tblVehicleEF	UBUS	0.02	8.1080e-003
tblVehicleEF	UBUS	38.17	30.34
tblVehicleEF	UBUS	1.30	0.80
tblVehicleEF	UBUS	1,896.29	1,438.99
tblVehicleEF	UBUS	13.95	5.83

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	UBUS	0.31	0.27
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.41	0.32
tblVehicleEF	UBUS	0.14	0.08
tblVehicleEF	UBUS	0.07	0.11
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1030e-003	2.9200e-004
tblVehicleEF	UBUS	1.7700e-004	2.1000e-005
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9470e-003	2.7500e-004
tblVehicleEF	UBUS	1.6300e-004	1.9000e-005
tblVehicleEF	UBUS	5.0900e-004	0.09
tblVehicleEF	UBUS	7.5380e-003	8.2650e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	1.3590e-003	0.01
tblVehicleEF	UBUS	0.06	0.03
tblVehicleEF	UBUS	3.6950e-003	1.0580e-003
tblVehicleEF	UBUS	1.3800e-004	5.8000e-005
tblVehicleEF	UBUS	5.0900e-004	0.09
tblVehicleEF	UBUS	7.5380e-003	8.2650e-003
tblVehicleEF	UBUS	5.00	2.19
tblVehicleEF	UBUS	1.3590e-003	0.01
tblVehicleEF	UBUS	0.07	0.03

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.1180	0.9677	1.1385	3.8200e-003	5.9200e-003	0.0384	0.0443	1.5900e-003	0.0361	0.0377	0.0000	334.1097	334.1097	0.0769	1.0100e-003	336.3308
2025	0.1991	1.5614	2.0206	6.8500e-003	0.0106	0.0595	0.0701	2.8500e-003	0.0559	0.0587	0.0000	599.0161	599.0161	0.1376	1.7600e-003	602.9811
Maximum	**0.1991**	**1.5614**	**2.0206**	**6.8500e-003**	**0.0106**	**0.0595**	**0.0701**	**2.8500e-003**	**0.0559**	**0.0587**	**0.0000**	**599.0161**	**599.0161**	**0.1376**	**1.7600e-003**	**602.9811**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0785	0.5442	1.5801	3.8200e-003	5.9200e-003	0.0203	0.0262	1.5900e-003	0.0194	0.0210	0.0000	334.1093	334.1093	0.0769	1.0100e-003	336.3304
2025	0.1347	0.9021	2.8287	6.8500e-003	0.0106	0.0315	0.0422	2.8500e-003	0.0302	0.0331	0.0000	599.0154	599.0154	0.1376	1.7600e-003	602.9804
Maximum	**0.1347**	**0.9021**	**2.8287**	**6.8500e-003**	**0.0106**	**0.0315**	**0.0422**	**2.8500e-003**	**0.0302**	**0.0331**	**0.0000**	**599.0154**	**599.0154**	**0.1376**	**1.7600e-003**	**602.9804**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**32.77**	**42.81**	**-39.56**	**0.00**	**0.00**	**47.06**	**40.26**	**0.00**	**46.10**	**43.99**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**9-17-2024**	**12-16-2024**	0.9321	0.5346
2	**12-17-2024**	**3-16-2025**	0.8487	0.4975
3	**3-17-2025**	**6-16-2025**	0.8521	0.5017
4	**6-17-2025**	**9-16-2025**	0.2130	0.1254
		Highest	0.9321	0.5346

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0638	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3000e-004	2.3000e-004	0.0000	0.0000	2.4000e-004
Energy	7.8000e-004	7.1200e-003	5.9800e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	32.9904	32.9904	1.6900e-003	3.3000e-004	33.1307
Mobile	0.0632	0.0368	0.2681	6.2000e-004	0.0561	4.6000e-004	0.0566	0.0140	4.3000e-004	0.0144	0.0000	57.1058	57.1058	3.1100e-003	2.5800e-003	57.9530
Waste						0.0000	0.0000		0.0000	0.0000	3.1707	0.0000	3.1707	0.1874	0.0000	7.8553
Water						0.0000	0.0000		0.0000	0.0000	0.9244	9.2927	10.2171	0.0955	2.3100e-003	13.2935
Total	**0.1278**	**0.0439**	**0.2742**	**6.6000e-004**	**0.0561**	**1.0000e-003**	**0.0571**	**0.0140**	**9.7000e-004**	**0.0150**	**4.0951**	**99.3891**	**103.4842**	**0.2877**	**5.2200e-003**	**112.2327**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0638	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3000e-004	2.3000e-004	0.0000	0.0000	2.4000e-004
Energy	7.8000e-004	7.1200e-003	5.9800e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	32.9904	32.9904	1.6900e-003	3.3000e-004	33.1307
Mobile	0.0632	0.0368	0.2681	6.2000e-004	0.0561	4.6000e-004	0.0566	0.0140	4.3000e-004	0.0144	0.0000	57.1058	57.1058	3.1100e-003	2.5800e-003	57.9530
Waste						0.0000	0.0000		0.0000	0.0000	3.1707	0.0000	3.1707	0.1874	0.0000	7.8553
Water						0.0000	0.0000		0.0000	0.0000	0.9244	9.2927	10.2171	0.0955	2.3100e-003	13.2935
Total	**0.1278**	**0.0439**	**0.2742**	**6.6000e-004**	**0.0561**	**1.0000e-003**	**0.0571**	**0.0140**	**9.7000e-004**	**0.0150**	**4.0951**	**99.3891**	**103.4842**	**0.2877**	**5.2200e-003**	**112.2327**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Repair Complex Wharf	Building Construction	9/17/2024	7/9/2025	7	296	

Acres of Grading (Site Preparation Phase): 0

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Repair Complex Wharf	Air Compressors	1	8.00	78	0.48
Repair Complex Wharf	Bore/Drill Rigs	1	4.00	595	0.50
Repair Complex Wharf	Bore/Drill Rigs	1	4.00	595	0.50
Repair Complex Wharf	Cranes	1	8.00	282	0.29
Repair Complex Wharf	Crushing/Proc. Equipment	1	8.00	10	0.78
Repair Complex Wharf	Excavators	1	4.00	242	0.38
Repair Complex Wharf	Forklifts	2	6.00	89	0.20
Repair Complex Wharf	Off-Highway Trucks	1	2.00	385	0.38
Repair Complex Wharf	Other Construction Equipment	1	4.00	595	0.50
Repair Complex Wharf	Pumps	1	8.00	225	0.74
Repair Complex Wharf	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Repair Complex Wharf	13	10.00	0.00	546.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Repair Complex Wharf - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1164	0.9537	1.1236	3.7300e-003		0.0383	0.0383		0.0360	0.0360	0.0000	325.0258	325.0258	0.0765	0.0000	326.9375
Total	**0.1164**	**0.9537**	**1.1236**	**3.7300e-003**		**0.0383**	**0.0383**		**0.0360**	**0.0360**	**0.0000**	**325.0258**	**325.0258**	**0.0765**	**0.0000**	**326.9375**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1000e-004	0.0132	3.5800e-003	6.0000e-005	1.6700e-003	1.1000e-004	1.7800e-003	4.6000e-004	1.0000e-004	5.6000e-004	0.0000	5.7640	5.7640	3.0000e-004	9.2000e-004	6.0450
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3500e-003	8.9000e-004	0.0113	4.0000e-005	4.2500e-003	2.0000e-005	4.2700e-003	1.1300e-003	2.0000e-005	1.1500e-003	0.0000	3.3199	3.3199	9.0000e-005	9.0000e-005	3.3483
Total	**1.5600e-003**	**0.0140**	**0.0149**	**1.0000e-004**	**5.9200e-003**	**1.3000e-004**	**6.0500e-003**	**1.5900e-003**	**1.2000e-004**	**1.7100e-003**	**0.0000**	**9.0839**	**9.0839**	**3.9000e-004**	**1.0100e-003**	**9.3933**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Repair Complex Wharf - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0769	0.5302	1.5652	3.7300e-003		0.0201	0.0201		0.0192	0.0192	0.0000	325.0254	325.0254	0.0765	0.0000	326.9371
Total	**0.0769**	**0.5302**	**1.5652**	**3.7300e-003**		**0.0201**	**0.0201**		**0.0192**	**0.0192**	**0.0000**	**325.0254**	**325.0254**	**0.0765**	**0.0000**	**326.9371**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1000e-004	0.0132	3.5800e-003	6.0000e-005	1.6700e-003	1.1000e-004	1.7800e-003	4.6000e-004	1.0000e-004	5.6000e-004	0.0000	5.7640	5.7640	3.0000e-004	9.2000e-004	6.0450
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3500e-003	8.9000e-004	0.0113	4.0000e-005	4.2500e-003	2.0000e-005	4.2700e-003	1.1300e-003	2.0000e-005	1.1500e-003	0.0000	3.3199	3.3199	9.0000e-005	9.0000e-005	3.3483
Total	**1.5600e-003**	**0.0140**	**0.0149**	**1.0000e-004**	**5.9200e-003**	**1.3000e-004**	**6.0500e-003**	**1.5900e-003**	**1.2000e-004**	**1.7100e-003**	**0.0000**	**9.0839**	**9.0839**	**3.9000e-004**	**1.0100e-003**	**9.3933**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Repair Complex Wharf - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1965	1.5367	1.9950	6.6900e-003		0.0592	0.0592		0.0557	0.0557	0.0000	583.0884	583.0884	0.1369	0.0000	586.5112
Total	**0.1965**	**1.5367**	**1.9950**	**6.6900e-003**		**0.0592**	**0.0592**		**0.0557**	**0.0557**	**0.0000**	**583.0884**	**583.0884**	**0.1369**	**0.0000**	**586.5112**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8000e-004	0.0233	6.5100e-003	1.0000e-004	3.0000e-003	2.0000e-004	3.2000e-003	8.2000e-004	1.9000e-004	1.0100e-003	0.0000	10.1222	10.1222	5.6000e-004	1.6100e-003	10.6167
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2800e-003	1.4500e-003	0.0191	6.0000e-005	7.6200e-003	4.0000e-005	7.6600e-003	2.0200e-003	4.0000e-005	2.0600e-003	0.0000	5.8055	5.8055	1.5000e-004	1.5000e-004	5.8532
Total	**2.6600e-003**	**0.0247**	**0.0256**	**1.6000e-004**	**0.0106**	**2.4000e-004**	**0.0109**	**2.8400e-003**	**2.3000e-004**	**3.0700e-003**	**0.0000**	**15.9277**	**15.9277**	**7.1000e-004**	**1.7600e-003**	**16.4699**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Repair Complex Wharf - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1320	0.8774	2.8031	6.6900e-003		0.0313	0.0313		0.0300	0.0300	0.0000	583.0877	583.0877	0.1369	0.0000	586.5105
Total	**0.1320**	**0.8774**	**2.8031**	**6.6900e-003**		**0.0313**	**0.0313**		**0.0300**	**0.0300**	**0.0000**	**583.0877**	**583.0877**	**0.1369**	**0.0000**	**586.5105**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8000e-004	0.0233	6.5100e-003	1.0000e-004	3.0000e-003	2.0000e-004	3.2000e-003	8.2000e-004	1.9000e-004	1.0100e-003	0.0000	10.1222	10.1222	5.6000e-004	1.6100e-003	10.6167
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2800e-003	1.4500e-003	0.0191	6.0000e-005	7.6200e-003	4.0000e-005	7.6600e-003	2.0200e-003	4.0000e-005	2.0600e-003	0.0000	5.8055	5.8055	1.5000e-004	1.5000e-004	5.8532
Total	**2.6600e-003**	**0.0247**	**0.0256**	**1.6000e-004**	**0.0106**	**2.4000e-004**	**0.0109**	**2.8400e-003**	**2.3000e-004**	**3.0700e-003**	**0.0000**	**15.9277**	**15.9277**	**7.1000e-004**	**1.7600e-003**	**16.4699**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0632	0.0368	0.2681	6.2000e-004	0.0561	4.6000e-004	0.0566	0.0140	4.3000e-004	0.0144	0.0000	57.1058	57.1058	3.1100e-003	2.5800e-003	57.9530
Unmitigated	0.0632	0.0368	0.2681	6.2000e-004	0.0561	4.6000e-004	0.0566	0.0140	4.3000e-004	0.0144	0.0000	57.1058	57.1058	3.1100e-003	2.5800e-003	57.9530

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	49.52	80.89	64.13	163,750	163,750
Total	49.52	80.89	64.13	163,750	163,750

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	25.2445	25.2445	1.5400e-003	1.9000e-004	25.3388
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	25.2445	25.2445	1.5400e-003	1.9000e-004	25.3388
NaturalGas Mitigated	7.8000e-004	7.1200e-003	5.9800e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	7.7459	7.7459	1.5000e-004	1.4000e-004	7.7919
NaturalGas Unmitigated	7.8000e-004	7.1200e-003	5.9800e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	7.7459	7.7459	1.5000e-004	1.4000e-004	7.7919

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Heavy Industry	145152	7.8000e-004	7.1200e-003	5.9800e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	7.7459	7.7459	1.5000e-004	1.4000e-004	7.7919
Total		**7.8000e-004**	**7.1200e-003**	**5.9800e-003**	**4.0000e-005**		**5.4000e-004**	**5.4000e-004**		**5.4000e-004**	**5.4000e-004**	**0.0000**	**7.7459**	**7.7459**	**1.5000e-004**	**1.4000e-004**	**7.7919**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Heavy Industry	145152	7.8000e-004	7.1200e-003	5.9800e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	7.7459	7.7459	1.5000e-004	1.4000e-004	7.7919
Total		**7.8000e-004**	**7.1200e-003**	**5.9800e-003**	**4.0000e-005**		**5.4000e-004**	**5.4000e-004**		**5.4000e-004**	**5.4000e-004**	**0.0000**	**7.7459**	**7.7459**	**1.5000e-004**	**1.4000e-004**	**7.7919**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	103068	25.2445	1.5400e-003	1.9000e-004	25.3388
Total		**25.2445**	**1.5400e-003**	**1.9000e-004**	**25.3388**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	103068	25.2445	1.5400e-003	1.9000e-004	25.3388
Total		**25.2445**	**1.5400e-003**	**1.9000e-004**	**25.3388**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0638	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3000e-004	2.3000e-004	0.0000	0.0000	2.4000e-004
Unmitigated	0.0638	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3000e-004	2.3000e-004	0.0000	0.0000	2.4000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0492					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3000e-004	2.3000e-004	0.0000	0.0000	2.4000e-004
Total	**0.0638**	**0.0000**	**1.2000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.3000e-004**	**2.3000e-004**	**0.0000**	**0.0000**	**2.4000e-004**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0492					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3000e-004	2.3000e-004	0.0000	0.0000	2.4000e-004
Total	**0.0638**	**0.0000**	**1.2000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.3000e-004**	**2.3000e-004**	**0.0000**	**0.0000**	**2.4000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	10.2171	0.0955	2.3100e-003	13.2935
Unmitigated	10.2171	0.0955	2.3100e-003	13.2935

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	2.91375 / 0	10.2171	0.0955	2.3100e-003	13.2935
Total		**10.2171**	**0.0955**	**2.3100e-003**	**13.2935**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	2.91375 / 0	10.2171	0.0955	2.3100e-003	13.2935
Total		**10.2171**	**0.0955**	**2.3100e-003**	**13.2935**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.1707	0.1874	0.0000	7.8553
Unmitigated	3.1707	0.1874	0.0000	7.8553

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	15.62	3.1707	0.1874	0.0000	7.8553
Total		**3.1707**	**0.1874**	**0.0000**	**7.8553**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	15.62	3.1707	0.1874	0.0000	7.8553
Total		**3.1707**	**0.1874**	**0.0000**	**7.8553**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

NASSCO - Phase 2 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

NASSCO - Phase 2

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	12.60	1000sqft	0.29	12,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2026
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Repair Complex Wharf includes approximately 12,600 square feet of timber deck planks, timber stringers, and timber pile caps.

Construction Phase - Client provided information. Phase 2 (Sept 17, 2024 - July 9, 2025): Repair/improvements to the Repair Complex Wharf.

Off-road Equipment - Client supplied equipment list

Off-road Equipment - Client Provided Data.

Trips and VMT - 2 haul truck trips per day per client. Most materials will be transported via water access.

Vehicle Trips -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use -

Construction Off-road Equipment Mitigation - Mitigation: At least 90% of engines Tier 4.

NASSCO - Phase 2 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	100.00	296.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblOffRoadEquipment	HorsePower	231.00	282.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	85.00	10.00
tblOffRoadEquipment	HorsePower	158.00	242.00
tblOffRoadEquipment	HorsePower	402.00	385.00
tblOffRoadEquipment	HorsePower	172.00	595.00
tblOffRoadEquipment	HorsePower	84.00	225.00
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	UsageHours	4.00	8.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblTripsAndVMT	HaulingTripNumber	0.00	546.00
tblTripsAndVMT	VendorTripNumber	2.00	0.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblVehicleEF	HHD	0.03	0.71
tblVehicleEF	HHD	0.08	0.06
tblVehicleEF	HHD	6.62	76.55
tblVehicleEF	HHD	0.52	0.50
tblVehicleEF	HHD	7.8570e-003	2.5080e-003
tblVehicleEF	HHD	1,056.67	11,481.16
tblVehicleEF	HHD	1,354.33	1,449.81
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	0.17	1.82
tblVehicleEF	HHD	0.22	0.23
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	5.60	63.27
tblVehicleEF	HHD	2.55	1.66
tblVehicleEF	HHD	2.37	2.66
tblVehicleEF	HHD	2.7180e-003	0.03
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	2.6000e-003	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8710e-003	8.8370e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	3.0000e-006	3.0070e-003
tblVehicleEF	HHD	1.4200e-004	4.2000e-005
tblVehicleEF	HHD	0.44	5.14
tblVehicleEF	HHD	0.03	0.02

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	HHD	6.0000e-005	1.5500e-004
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	9.7530e-003	0.11
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	3.0000e-006	3.0070e-003
tblVehicleEF	HHD	1.4200e-004	4.2000e-005
tblVehicleEF	HHD	0.51	6.33
tblVehicleEF	HHD	0.11	0.08
tblVehicleEF	HHD	6.0000e-005	1.5500e-004
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.74
tblVehicleEF	HHD	0.08	0.06
tblVehicleEF	HHD	6.53	76.53
tblVehicleEF	HHD	0.52	0.52
tblVehicleEF	HHD	7.3850e-003	2.2820e-003
tblVehicleEF	HHD	1,044.54	11,332.25
tblVehicleEF	HHD	1,354.33	1,433.35
tblVehicleEF	HHD	0.08	0.02
tblVehicleEF	HHD	0.17	1.80
tblVehicleEF	HHD	0.22	0.23
tblVehicleEF	HHD	5.35	62.43
tblVehicleEF	HHD	2.46	1.59
tblVehicleEF	HHD	2.37	2.67
tblVehicleEF	HHD	2.3780e-003	0.03
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	HHD	2.2750e-003	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8710e-003	8.8380e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	4.0000e-006	2.5580e-003
tblVehicleEF	HHD	1.4600e-004	3.4000e-005
tblVehicleEF	HHD	0.47	5.14
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	5.8000e-005	1.3900e-004
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	9.6410e-003	0.10
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	4.0000e-006	2.5580e-003
tblVehicleEF	HHD	1.4600e-004	3.4000e-005
tblVehicleEF	HHD	0.54	6.36
tblVehicleEF	HHD	0.11	0.08
tblVehicleEF	HHD	5.8000e-005	1.3900e-004
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.80
tblVehicleEF	HHD	0.08	0.08
tblVehicleEF	HHD	6.75	80.34
tblVehicleEF	HHD	0.52	0.57
tblVehicleEF	HHD	8.0660e-003	5.0770e-003
tblVehicleEF	HHD	1,073.41	13,127.44
tblVehicleEF	HHD	1,354.33	1,652.70
tblVehicleEF	HHD	0.08	0.05
tblVehicleEF	HHD	0.17	2.08

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	HHD	0.22	0.26
tblVehicleEF	HHD	1.0000e-006	8.0000e-006
tblVehicleEF	HHD	5.95	70.64
tblVehicleEF	HHD	2.54	2.06
tblVehicleEF	HHD	2.37	2.75
tblVehicleEF	HHD	3.1870e-003	0.04
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	3.0490e-003	0.04
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8710e-003	8.8310e-003
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	2.0000e-006	8.0720e-003
tblVehicleEF	HHD	1.5800e-004	1.1600e-004
tblVehicleEF	HHD	0.41	4.92
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	6.6000e-005	3.1900e-004
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	HHD	9.9090e-003	0.12
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	2.0000e-006	8.0720e-003
tblVehicleEF	HHD	1.5800e-004	1.1600e-004
tblVehicleEF	HHD	0.47	6.17
tblVehicleEF	HHD	0.11	0.11
tblVehicleEF	HHD	6.6000e-005	3.1900e-004
tblVehicleEF	HHD	3.0000e-006	1.0000e-006

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDA	1.4500e-003	1.9870e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.45	0.57
tblVehicleEF	LDA	1.85	2.34
tblVehicleEF	LDA	238.22	252.96
tblVehicleEF	LDA	48.60	60.27
tblVehicleEF	LDA	3.5940e-003	3.7030e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.14	0.20
tblVehicleEF	LDA	0.04	7.0230e-003
tblVehicleEF	LDA	1.3240e-003	1.2570e-003
tblVehicleEF	LDA	1.6070e-003	1.6670e-003
tblVehicleEF	LDA	0.02	2.4580e-003
tblVehicleEF	LDA	1.2200e-003	1.1560e-003
tblVehicleEF	LDA	1.4770e-003	1.5330e-003
tblVehicleEF	LDA	0.03	1.20
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	5.1340e-003	7.1680e-003
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.16	0.23
tblVehicleEF	LDA	2.2680e-003	2.5010e-003
tblVehicleEF	LDA	4.6300e-004	5.9600e-004
tblVehicleEF	LDA	0.03	1.20
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	7.4530e-003	0.01
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.17	0.25
tblVehicleEF	LDA	1.5800e-003	1.9740e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.53	2.29
tblVehicleEF	LDA	251.40	253.65
tblVehicleEF	LDA	48.01	60.06
tblVehicleEF	LDA	3.3860e-003	3.6470e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.13	0.20
tblVehicleEF	LDA	0.04	7.0210e-003
tblVehicleEF	LDA	1.3240e-003	1.2510e-003
tblVehicleEF	LDA	1.6070e-003	1.6610e-003
tblVehicleEF	LDA	0.02	2.4570e-003
tblVehicleEF	LDA	1.2200e-003	1.1520e-003
tblVehicleEF	LDA	1.4770e-003	1.5270e-003
tblVehicleEF	LDA	0.05	1.22
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	5.5230e-003	7.0860e-003
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.14	0.23
tblVehicleEF	LDA	2.3930e-003	2.5070e-003
tblVehicleEF	LDA	4.5700e-004	5.9400e-004
tblVehicleEF	LDA	0.05	1.22
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	8.0200e-003	0.01
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.15	0.25
tblVehicleEF	LDA	1.4190e-003	2.8490e-003
tblVehicleEF	LDA	0.04	0.07

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDA	0.44	0.70
tblVehicleEF	LDA	1.99	3.25
tblVehicleEF	LDA	235.83	281.69
tblVehicleEF	LDA	48.85	68.09
tblVehicleEF	LDA	3.6170e-003	4.6970e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	0.15	0.25
tblVehicleEF	LDA	0.04	7.1270e-003
tblVehicleEF	LDA	1.3240e-003	1.6660e-003
tblVehicleEF	LDA	1.6070e-003	2.0740e-003
tblVehicleEF	LDA	0.02	2.4940e-003
tblVehicleEF	LDA	1.2200e-003	1.5340e-003
tblVehicleEF	LDA	1.4770e-003	1.9070e-003
tblVehicleEF	LDA	0.02	1.35
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	5.0490e-003	0.01
tblVehicleEF	LDA	0.03	0.22
tblVehicleEF	LDA	0.16	0.33
tblVehicleEF	LDA	2.2450e-003	2.7840e-003
tblVehicleEF	LDA	4.6500e-004	6.7300e-004
tblVehicleEF	LDA	0.02	1.35
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	7.3290e-003	0.02
tblVehicleEF	LDA	0.03	0.22
tblVehicleEF	LDA	0.18	0.36
tblVehicleEF	LDT1	3.9870e-003	7.4770e-003
tblVehicleEF	LDT1	0.06	0.10
tblVehicleEF	LDT1	0.85	1.41

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT1	2.08	4.84
tblVehicleEF	LDT1	293.53	340.26
tblVehicleEF	LDT1	60.76	83.40
tblVehicleEF	LDT1	5.9770e-003	9.3350e-003
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.07	0.12
tblVehicleEF	LDT1	0.21	0.37
tblVehicleEF	LDT1	0.04	9.2390e-003
tblVehicleEF	LDT1	1.7290e-003	2.1880e-003
tblVehicleEF	LDT1	2.0790e-003	2.7210e-003
tblVehicleEF	LDT1	0.02	3.2340e-003
tblVehicleEF	LDT1	1.5910e-003	2.0130e-003
tblVehicleEF	LDT1	1.9110e-003	2.5020e-003
tblVehicleEF	LDT1	0.09	3.05
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.08	0.53
tblVehicleEF	LDT1	0.27	0.51
tblVehicleEF	LDT1	2.7950e-003	3.3640e-003
tblVehicleEF	LDT1	5.7800e-004	8.2400e-004
tblVehicleEF	LDT1	0.09	3.05
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.02	0.05
tblVehicleEF	LDT1	0.08	0.53
tblVehicleEF	LDT1	0.30	0.56
tblVehicleEF	LDT1	4.3050e-003	7.4210e-003
tblVehicleEF	LDT1	0.05	0.10
tblVehicleEF	LDT1	0.95	1.43
tblVehicleEF	LDT1	1.72	4.70

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT1	307.49	341.45
tblVehicleEF	LDT1	60.04	83.03
tblVehicleEF	LDT1	5.5760e-003	9.1450e-003
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.06	0.12
tblVehicleEF	LDT1	0.19	0.37
tblVehicleEF	LDT1	0.04	9.2400e-003
tblVehicleEF	LDT1	1.7290e-003	2.1720e-003
tblVehicleEF	LDT1	2.0790e-003	2.7020e-003
tblVehicleEF	LDT1	0.02	3.2340e-003
tblVehicleEF	LDT1	1.5910e-003	1.9980e-003
tblVehicleEF	LDT1	1.9110e-003	2.4850e-003
tblVehicleEF	LDT1	0.13	3.10
tblVehicleEF	LDT1	0.18	0.18
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.08	0.53
tblVehicleEF	LDT1	0.24	0.50
tblVehicleEF	LDT1	2.9270e-003	3.3760e-003
tblVehicleEF	LDT1	5.7200e-004	8.2100e-004
tblVehicleEF	LDT1	0.13	3.10
tblVehicleEF	LDT1	0.18	0.18
tblVehicleEF	LDT1	0.03	0.05
tblVehicleEF	LDT1	0.08	0.53
tblVehicleEF	LDT1	0.26	0.54
tblVehicleEF	LDT1	3.9100e-003	0.01
tblVehicleEF	LDT1	0.06	0.13
tblVehicleEF	LDT1	0.83	1.84
tblVehicleEF	LDT1	2.23	6.81
tblVehicleEF	LDT1	291.00	362.43

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT1	61.06	91.86
tblVehicleEF	LDT1	6.0270e-003	0.01
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.07	0.19
tblVehicleEF	LDT1	0.22	0.48
tblVehicleEF	LDT1	0.04	9.2870e-003
tblVehicleEF	LDT1	1.7290e-003	2.8810e-003
tblVehicleEF	LDT1	2.0790e-003	3.4250e-003
tblVehicleEF	LDT1	0.02	3.2500e-003
tblVehicleEF	LDT1	1.5910e-003	2.6510e-003
tblVehicleEF	LDT1	1.9110e-003	3.1490e-003
tblVehicleEF	LDT1	0.07	3.43
tblVehicleEF	LDT1	0.20	0.21
tblVehicleEF	LDT1	0.02	0.05
tblVehicleEF	LDT1	0.10	0.66
tblVehicleEF	LDT1	0.29	0.71
tblVehicleEF	LDT1	2.7710e-003	3.5830e-003
tblVehicleEF	LDT1	5.8100e-004	9.0800e-004
tblVehicleEF	LDT1	0.07	3.43
tblVehicleEF	LDT1	0.20	0.21
tblVehicleEF	LDT1	0.02	0.07
tblVehicleEF	LDT1	0.10	0.66
tblVehicleEF	LDT1	0.31	0.77
tblVehicleEF	LDT2	2.6880e-003	2.9450e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.65	0.75
tblVehicleEF	LDT2	2.41	2.95
tblVehicleEF	LDT2	304.89	343.90
tblVehicleEF	LDT2	63.25	80.72

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT2	5.0640e-003	5.3400e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.21	0.28
tblVehicleEF	LDT2	0.04	8.7990e-003
tblVehicleEF	LDT2	1.3830e-003	1.4140e-003
tblVehicleEF	LDT2	1.6120e-003	1.7750e-003
tblVehicleEF	LDT2	0.02	3.0800e-003
tblVehicleEF	LDT2	1.2730e-003	1.3010e-003
tblVehicleEF	LDT2	1.4820e-003	1.6320e-003
tblVehicleEF	LDT2	0.06	1.32
tblVehicleEF	LDT2	0.11	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.24	0.30
tblVehicleEF	LDT2	2.9030e-003	3.3990e-003
tblVehicleEF	LDT2	6.0200e-004	7.9800e-004
tblVehicleEF	LDT2	0.06	1.32
tblVehicleEF	LDT2	0.11	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.26	0.33
tblVehicleEF	LDT2	2.9160e-003	2.9320e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.73	0.76
tblVehicleEF	LDT2	1.99	2.88
tblVehicleEF	LDT2	318.02	344.65
tblVehicleEF	LDT2	62.46	80.46
tblVehicleEF	LDT2	4.7530e-003	5.2550e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.19	0.27
tblVehicleEF	LDT2	0.04	8.7980e-003
tblVehicleEF	LDT2	1.3830e-003	1.4100e-003
tblVehicleEF	LDT2	1.6120e-003	1.7710e-003
tblVehicleEF	LDT2	0.02	3.0790e-003
tblVehicleEF	LDT2	1.2730e-003	1.2970e-003
tblVehicleEF	LDT2	1.4820e-003	1.6280e-003
tblVehicleEF	LDT2	0.08	1.34
tblVehicleEF	LDT2	0.12	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.21	0.30
tblVehicleEF	LDT2	3.0280e-003	3.4070e-003
tblVehicleEF	LDT2	5.9500e-004	7.9500e-004
tblVehicleEF	LDT2	0.08	1.34
tblVehicleEF	LDT2	0.12	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.23	0.32
tblVehicleEF	LDT2	2.6330e-003	4.0080e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.64	0.90
tblVehicleEF	LDT2	2.59	4.00
tblVehicleEF	LDT2	302.52	375.58
tblVehicleEF	LDT2	63.59	90.06
tblVehicleEF	LDT2	5.1000e-003	6.9200e-003
tblVehicleEF	LDT2	0.03	0.04

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tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.22	0.37
tblVehicleEF	LDT2	0.04	8.8250e-003
tblVehicleEF	LDT2	1.3830e-003	1.7680e-003
tblVehicleEF	LDT2	1.6120e-003	2.1270e-003
tblVehicleEF	LDT2	0.02	3.0890e-003
tblVehicleEF	LDT2	1.2730e-003	1.6270e-003
tblVehicleEF	LDT2	1.4820e-003	1.9560e-003
tblVehicleEF	LDT2	0.04	1.45
tblVehicleEF	LDT2	0.12	0.09
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.24
tblVehicleEF	LDT2	0.25	0.42
tblVehicleEF	LDT2	2.8800e-003	3.7120e-003
tblVehicleEF	LDT2	6.0500e-004	8.9000e-004
tblVehicleEF	LDT2	0.04	1.45
tblVehicleEF	LDT2	0.12	0.09
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.24
tblVehicleEF	LDT2	0.27	0.46
tblVehicleEF	LHD1	4.2580e-003	0.06
tblVehicleEF	LHD1	7.1710e-003	6.3690e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.17	2.53
tblVehicleEF	LHD1	0.67	0.70
tblVehicleEF	LHD1	0.87	1.82
tblVehicleEF	LHD1	8.93	114.95
tblVehicleEF	LHD1	730.99	686.69
tblVehicleEF	LHD1	9.84	14.76

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD1	8.5000e-004	9.1300e-003
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.07	0.68
tblVehicleEF	LHD1	0.74	0.62
tblVehicleEF	LHD1	0.25	0.33
tblVehicleEF	LHD1	1.0050e-003	0.01
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.01	9.5540e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.1000e-004	1.6200e-004
tblVehicleEF	LHD1	9.6200e-004	9.5810e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5100e-003	2.3890e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	1.9300e-004	1.4900e-004
tblVehicleEF	LHD1	1.5270e-003	1.52
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.02	0.26
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.17	0.13
tblVehicleEF	LHD1	0.05	0.08
tblVehicleEF	LHD1	8.6000e-005	1.1170e-003
tblVehicleEF	LHD1	7.1170e-003	6.6900e-003
tblVehicleEF	LHD1	9.7000e-005	1.4600e-004
tblVehicleEF	LHD1	1.5270e-003	1.52
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.03	0.37
tblVehicleEF	LHD1	0.11	0.10

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD1	0.17	0.13
tblVehicleEF	LHD1	0.06	0.09
tblVehicleEF	LHD1	4.2670e-003	0.06
tblVehicleEF	LHD1	7.2660e-003	6.3150e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.17	2.53
tblVehicleEF	LHD1	0.68	0.70
tblVehicleEF	LHD1	0.83	1.82
tblVehicleEF	LHD1	8.93	114.85
tblVehicleEF	LHD1	731.00	685.89
tblVehicleEF	LHD1	9.76	14.74
tblVehicleEF	LHD1	8.5200e-004	9.1300e-003
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.07	0.67
tblVehicleEF	LHD1	0.72	0.61
tblVehicleEF	LHD1	0.23	0.33
tblVehicleEF	LHD1	1.0050e-003	0.01
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.01	9.5550e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	2.1000e-004	1.6000e-004
tblVehicleEF	LHD1	9.6200e-004	9.5850e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5100e-003	2.3890e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	1.9300e-004	1.4700e-004
tblVehicleEF	LHD1	2.2050e-003	1.54
tblVehicleEF	LHD1	0.06	0.02

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD1	0.02	0.26
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.16	0.13
tblVehicleEF	LHD1	0.05	0.08
tblVehicleEF	LHD1	8.6000e-005	1.1160e-003
tblVehicleEF	LHD1	7.1170e-003	6.6820e-003
tblVehicleEF	LHD1	9.7000e-005	1.4600e-004
tblVehicleEF	LHD1	2.2050e-003	1.54
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.03	0.37
tblVehicleEF	LHD1	0.11	0.10
tblVehicleEF	LHD1	0.16	0.13
tblVehicleEF	LHD1	0.06	0.09
tblVehicleEF	LHD1	4.2540e-003	0.08
tblVehicleEF	LHD1	7.1280e-003	0.01
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.17	2.69
tblVehicleEF	LHD1	0.66	1.01
tblVehicleEF	LHD1	0.90	1.94
tblVehicleEF	LHD1	8.93	126.03
tblVehicleEF	LHD1	730.98	785.08
tblVehicleEF	LHD1	9.87	16.18
tblVehicleEF	LHD1	8.4900e-004	9.8600e-003
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.07	0.83
tblVehicleEF	LHD1	0.74	1.03
tblVehicleEF	LHD1	0.25	0.42
tblVehicleEF	LHD1	1.0050e-003	0.01

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.6600e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.1000e-004	2.3900e-004
tblVehicleEF	LHD1	9.6200e-004	9.9280e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5100e-003	2.4150e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	1.9300e-004	2.2000e-004
tblVehicleEF	LHD1	1.3910e-003	1.93
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.02	0.31
tblVehicleEF	LHD1	0.09	0.12
tblVehicleEF	LHD1	0.19	0.18
tblVehicleEF	LHD1	0.06	0.11
tblVehicleEF	LHD1	8.6000e-005	1.2250e-003
tblVehicleEF	LHD1	7.1170e-003	7.6540e-003
tblVehicleEF	LHD1	9.8000e-005	1.6000e-004
tblVehicleEF	LHD1	1.3910e-003	1.93
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.03	0.44
tblVehicleEF	LHD1	0.11	0.15
tblVehicleEF	LHD1	0.19	0.18
tblVehicleEF	LHD1	0.06	0.12
tblVehicleEF	LHD2	2.8750e-003	0.04
tblVehicleEF	LHD2	6.1200e-003	5.7410e-003
tblVehicleEF	LHD2	6.5120e-003	9.6360e-003
tblVehicleEF	LHD2	0.13	1.83
tblVehicleEF	LHD2	0.56	0.47

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	0.52	1.02
tblVehicleEF	LHD2	13.81	170.75
tblVehicleEF	LHD2	731.57	741.80
tblVehicleEF	LHD2	7.07	8.39
tblVehicleEF	LHD2	1.7550e-003	0.02
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.09	1.05
tblVehicleEF	LHD2	0.73	0.72
tblVehicleEF	LHD2	0.16	0.19
tblVehicleEF	LHD2	1.4510e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.1000e-004	6.9000e-005
tblVehicleEF	LHD2	1.3890e-003	0.02
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7020e-003	2.6390e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.0100e-004	6.4000e-005
tblVehicleEF	LHD2	7.5100e-004	0.83
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.01	0.19
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	0.07	0.06
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	1.3200e-004	1.6370e-003
tblVehicleEF	LHD2	7.0590e-003	7.1400e-003
tblVehicleEF	LHD2	7.0000e-005	8.3000e-005

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	7.5100e-004	0.83
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.26
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.07	0.06
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	2.8810e-003	0.04
tblVehicleEF	LHD2	6.1590e-003	5.7050e-003
tblVehicleEF	LHD2	6.2430e-003	9.5460e-003
tblVehicleEF	LHD2	0.13	1.83
tblVehicleEF	LHD2	0.57	0.47
tblVehicleEF	LHD2	0.49	1.02
tblVehicleEF	LHD2	13.81	170.68
tblVehicleEF	LHD2	731.57	741.19
tblVehicleEF	LHD2	7.02	8.36
tblVehicleEF	LHD2	1.7570e-003	0.02
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.09	1.05
tblVehicleEF	LHD2	0.70	0.71
tblVehicleEF	LHD2	0.15	0.19
tblVehicleEF	LHD2	1.4510e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.1000e-004	6.8000e-005
tblVehicleEF	LHD2	1.3890e-003	0.02
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7020e-003	2.6400e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.0100e-004	6.3000e-005
tblVehicleEF	LHD2	1.0870e-003	0.84
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.01	0.19
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	0.07	0.06
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	1.3200e-004	1.6360e-003
tblVehicleEF	LHD2	7.0600e-003	7.1340e-003
tblVehicleEF	LHD2	6.9000e-005	8.3000e-005
tblVehicleEF	LHD2	1.0870e-003	0.84
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.26
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.07	0.06
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	2.8730e-003	0.05
tblVehicleEF	LHD2	6.1030e-003	8.1630e-003
tblVehicleEF	LHD2	6.6320e-003	0.01
tblVehicleEF	LHD2	0.13	2.01
tblVehicleEF	LHD2	0.56	0.65
tblVehicleEF	LHD2	0.53	1.17
tblVehicleEF	LHD2	13.81	185.66
tblVehicleEF	LHD2	731.56	843.22
tblVehicleEF	LHD2	7.09	9.91
tblVehicleEF	LHD2	1.7550e-003	0.02
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.01	0.02

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	0.09	1.29
tblVehicleEF	LHD2	0.73	1.11
tblVehicleEF	LHD2	0.16	0.26
tblVehicleEF	LHD2	1.4510e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.3890e-003	0.02
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7020e-003	2.6710e-003
tblVehicleEF	LHD2	0.01	0.03
tblVehicleEF	LHD2	6.6500e-004	1.02
tblVehicleEF	LHD2	0.04	0.02
tblVehicleEF	LHD2	0.01	0.23
tblVehicleEF	LHD2	0.11	0.14
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.03	0.07
tblVehicleEF	LHD2	1.3200e-004	1.7810e-003
tblVehicleEF	LHD2	7.0590e-003	8.1260e-003
tblVehicleEF	LHD2	7.0000e-005	9.8000e-005
tblVehicleEF	LHD2	6.6500e-004	1.02
tblVehicleEF	LHD2	0.04	0.02
tblVehicleEF	LHD2	0.02	0.32
tblVehicleEF	LHD2	0.12	0.16
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.04	0.07
tblVehicleEF	MCY	0.35	0.20
tblVehicleEF	MCY	0.24	0.16
tblVehicleEF	MCY	19.58	13.05

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MCY	8.68	7.68
tblVehicleEF	MCY	220.25	203.25
tblVehicleEF	MCY	59.63	45.52
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	7.1880e-003
tblVehicleEF	MCY	1.15	0.56
tblVehicleEF	MCY	0.27	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.2080e-003	2.4700e-003
tblVehicleEF	MCY	2.8670e-003	3.3630e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.0620e-003	2.3070e-003
tblVehicleEF	MCY	2.6920e-003	3.1550e-003
tblVehicleEF	MCY	0.94	4.15
tblVehicleEF	MCY	0.73	3.60
tblVehicleEF	MCY	2.38	1.27
tblVehicleEF	MCY	0.48	3.78
tblVehicleEF	MCY	1.83	1.21
tblVehicleEF	MCY	2.1800e-003	2.0090e-003
tblVehicleEF	MCY	5.9000e-004	4.5000e-004
tblVehicleEF	MCY	0.94	4.15
tblVehicleEF	MCY	0.73	3.60
tblVehicleEF	MCY	2.96	1.55
tblVehicleEF	MCY	0.48	3.78
tblVehicleEF	MCY	2.00	1.31
tblVehicleEF	MCY	0.34	0.19
tblVehicleEF	MCY	0.21	0.16
tblVehicleEF	MCY	18.68	13.00
tblVehicleEF	MCY	7.76	7.61

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MCY	218.59	203.17
tblVehicleEF	MCY	57.37	45.29
tblVehicleEF	MCY	0.06	0.04
tblVehicleEF	MCY	0.01	7.1420e-003
tblVehicleEF	MCY	1.04	0.56
tblVehicleEF	MCY	0.25	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.2080e-003	2.4710e-003
tblVehicleEF	MCY	2.8670e-003	3.3530e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.0620e-003	2.3090e-003
tblVehicleEF	MCY	2.6920e-003	3.1450e-003
tblVehicleEF	MCY	1.52	4.26
tblVehicleEF	MCY	0.83	3.61
tblVehicleEF	MCY	2.31	1.27
tblVehicleEF	MCY	0.44	3.77
tblVehicleEF	MCY	1.59	1.19
tblVehicleEF	MCY	2.1630e-003	2.0090e-003
tblVehicleEF	MCY	5.6800e-004	4.4800e-004
tblVehicleEF	MCY	1.52	4.26
tblVehicleEF	MCY	0.83	3.61
tblVehicleEF	MCY	2.88	1.54
tblVehicleEF	MCY	0.44	3.77
tblVehicleEF	MCY	1.73	1.30
tblVehicleEF	MCY	0.36	0.21
tblVehicleEF	MCY	0.25	0.19
tblVehicleEF	MCY	20.21	14.65
tblVehicleEF	MCY	9.15	8.20
tblVehicleEF	MCY	221.38	205.59

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MCY	60.75	50.21
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	8.5500e-003
tblVehicleEF	MCY	1.16	0.62
tblVehicleEF	MCY	0.27	0.15
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.2080e-003	2.3570e-003
tblVehicleEF	MCY	2.8670e-003	3.5430e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.0620e-003	2.2070e-003
tblVehicleEF	MCY	2.6920e-003	3.3360e-003
tblVehicleEF	MCY	0.86	4.02
tblVehicleEF	MCY	0.98	3.58
tblVehicleEF	MCY	2.42	1.44
tblVehicleEF	MCY	0.57	4.05
tblVehicleEF	MCY	1.95	1.43
tblVehicleEF	MCY	2.1910e-003	2.0320e-003
tblVehicleEF	MCY	6.0100e-004	4.9600e-004
tblVehicleEF	MCY	0.86	4.02
tblVehicleEF	MCY	0.98	3.58
tblVehicleEF	MCY	3.01	1.72
tblVehicleEF	MCY	0.57	4.05
tblVehicleEF	MCY	2.12	1.55
tblVehicleEF	MDV	2.8350e-003	3.5470e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.65	0.81
tblVehicleEF	MDV	2.57	3.14
tblVehicleEF	MDV	368.68	413.72
tblVehicleEF	MDV	76.06	96.88

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MDV	6.5620e-003	6.9070e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.05	0.07
tblVehicleEF	MDV	0.24	0.33
tblVehicleEF	MDV	0.04	8.8900e-003
tblVehicleEF	MDV	1.4050e-003	1.4410e-003
tblVehicleEF	MDV	1.6220e-003	1.7910e-003
tblVehicleEF	MDV	0.02	3.1120e-003
tblVehicleEF	MDV	1.2960e-003	1.3280e-003
tblVehicleEF	MDV	1.4910e-003	1.6460e-003
tblVehicleEF	MDV	0.06	1.59
tblVehicleEF	MDV	0.12	0.09
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.05	0.26
tblVehicleEF	MDV	0.28	0.38
tblVehicleEF	MDV	3.5090e-003	4.0870e-003
tblVehicleEF	MDV	7.2400e-004	9.5800e-004
tblVehicleEF	MDV	0.06	1.59
tblVehicleEF	MDV	0.12	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.05	0.26
tblVehicleEF	MDV	0.30	0.41
tblVehicleEF	MDV	3.0770e-003	3.5160e-003
tblVehicleEF	MDV	0.05	0.08
tblVehicleEF	MDV	0.73	0.82
tblVehicleEF	MDV	2.12	3.06
tblVehicleEF	MDV	381.80	414.37
tblVehicleEF	MDV	75.20	96.57
tblVehicleEF	MDV	6.2380e-003	6.7840e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.05	0.07
tblVehicleEF	MDV	0.22	0.33
tblVehicleEF	MDV	0.04	8.8890e-003
tblVehicleEF	MDV	1.4050e-003	1.4340e-003
tblVehicleEF	MDV	1.6220e-003	1.7810e-003
tblVehicleEF	MDV	0.02	3.1110e-003
tblVehicleEF	MDV	1.2960e-003	1.3220e-003
tblVehicleEF	MDV	1.4910e-003	1.6380e-003
tblVehicleEF	MDV	0.10	1.61
tblVehicleEF	MDV	0.13	0.09
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.05	0.26
tblVehicleEF	MDV	0.24	0.37
tblVehicleEF	MDV	3.6340e-003	4.0940e-003
tblVehicleEF	MDV	7.1600e-004	9.5500e-004
tblVehicleEF	MDV	0.10	1.61
tblVehicleEF	MDV	0.13	0.09
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.05	0.26
tblVehicleEF	MDV	0.26	0.40
tblVehicleEF	MDV	2.7770e-003	5.3930e-003
tblVehicleEF	MDV	0.06	0.11
tblVehicleEF	MDV	0.64	1.06
tblVehicleEF	MDV	2.77	4.42
tblVehicleEF	MDV	366.31	455.28
tblVehicleEF	MDV	76.43	108.53
tblVehicleEF	MDV	6.5990e-003	9.7720e-003
tblVehicleEF	MDV	0.03	0.04

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MDV	0.05	0.12
tblVehicleEF	MDV	0.25	0.48
tblVehicleEF	MDV	0.04	8.9880e-003
tblVehicleEF	MDV	1.4050e-003	1.8920e-003
tblVehicleEF	MDV	1.6220e-003	2.2530e-003
tblVehicleEF	MDV	0.02	3.1460e-003
tblVehicleEF	MDV	1.2960e-003	1.7460e-003
tblVehicleEF	MDV	1.4910e-003	2.0720e-003
tblVehicleEF	MDV	0.05	1.79
tblVehicleEF	MDV	0.13	0.11
tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.07	0.30
tblVehicleEF	MDV	0.29	0.57
tblVehicleEF	MDV	3.4870e-003	4.4980e-003
tblVehicleEF	MDV	7.2800e-004	1.0730e-003
tblVehicleEF	MDV	0.05	1.79
tblVehicleEF	MDV	0.13	0.11
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.07	0.30
tblVehicleEF	MDV	0.32	0.63
tblVehicleEF	MH	9.7290e-003	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.93	0.94
tblVehicleEF	MH	1.86	2.11
tblVehicleEF	MH	1,500.37	1,670.37
tblVehicleEF	MH	17.47	21.04
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.50	1.58

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MH	0.24	0.31
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.2900e-004	2.5800e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.2940e-003	3.3220e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.1100e-004	2.3800e-004
tblVehicleEF	MH	0.63	2.95
tblVehicleEF	MH	0.06	7.37
tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.01	0.17
tblVehicleEF	MH	0.09	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.7300e-004	2.0800e-004
tblVehicleEF	MH	0.63	2.95
tblVehicleEF	MH	0.06	7.37
tblVehicleEF	MH	0.09	0.10
tblVehicleEF	MH	0.01	0.17
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MH	9.9500e-003	9.9380e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.96	0.91
tblVehicleEF	MH	1.74	2.08
tblVehicleEF	MH	1,500.41	1,669.46
tblVehicleEF	MH	17.27	20.96
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MH	1.43	1.57
tblVehicleEF	MH	0.23	0.31
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.2900e-004	2.5500e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.2940e-003	3.3230e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.1100e-004	2.3500e-004
tblVehicleEF	MH	0.87	3.00
tblVehicleEF	MH	0.06	7.35
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.01	0.17
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.7100e-004	2.0700e-004
tblVehicleEF	MH	0.87	3.00
tblVehicleEF	MH	0.06	7.35
tblVehicleEF	MH	0.09	0.10
tblVehicleEF	MH	0.01	0.17
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MH	9.6330e-003	0.01
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.92	1.61
tblVehicleEF	MH	1.91	2.57
tblVehicleEF	MH	1,500.35	1,699.67
tblVehicleEF	MH	17.57	22.98
tblVehicleEF	MH	0.06	0.07

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.50	1.69
tblVehicleEF	MH	0.25	0.30
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	2.2900e-004	3.1900e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.2940e-003	3.2890e-003
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	2.1100e-004	2.9400e-004
tblVehicleEF	MH	0.63	3.41
tblVehicleEF	MH	0.07	9.37
tblVehicleEF	MH	0.07	0.10
tblVehicleEF	MH	0.02	0.22
tblVehicleEF	MH	0.09	0.12
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.7400e-004	2.2700e-004
tblVehicleEF	MH	0.63	3.41
tblVehicleEF	MH	0.07	9.37
tblVehicleEF	MH	0.09	0.13
tblVehicleEF	MH	0.02	0.22
tblVehicleEF	MH	0.10	0.13
tblVehicleEF	MHD	3.9580e-003	0.25
tblVehicleEF	MHD	1.5800e-003	0.01
tblVehicleEF	MHD	9.4840e-003	9.5600e-003
tblVehicleEF	MHD	0.41	8.81
tblVehicleEF	MHD	0.21	0.30
tblVehicleEF	MHD	1.04	1.07

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	74.87	1,724.30
tblVehicleEF	MHD	1,055.03	1,131.79
tblVehicleEF	MHD	9.63	9.53
tblVehicleEF	MHD	0.01	0.26
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	8.0040e-003	6.7900e-003
tblVehicleEF	MHD	0.43	8.99
tblVehicleEF	MHD	1.38	0.76
tblVehicleEF	MHD	1.67	1.17
tblVehicleEF	MHD	3.0700e-004	0.01
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	6.6930e-003	7.1540e-003
tblVehicleEF	MHD	1.1700e-004	1.1500e-004
tblVehicleEF	MHD	2.9400e-004	0.01
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.3960e-003	6.8340e-003
tblVehicleEF	MHD	1.0800e-004	1.0500e-004
tblVehicleEF	MHD	3.5100e-004	0.55
tblVehicleEF	MHD	0.02	6.3890e-003
tblVehicleEF	MHD	0.02	0.37
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	7.1000e-004	0.02
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.5000e-005	9.4000e-005
tblVehicleEF	MHD	3.5100e-004	0.55
tblVehicleEF	MHD	0.02	6.3890e-003
tblVehicleEF	MHD	0.03	0.68

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	3.7660e-003	0.25
tblVehicleEF	MHD	1.6120e-003	0.01
tblVehicleEF	MHD	9.0750e-003	9.4740e-003
tblVehicleEF	MHD	0.35	8.74
tblVehicleEF	MHD	0.21	0.29
tblVehicleEF	MHD	0.98	1.06
tblVehicleEF	MHD	74.86	1,721.96
tblVehicleEF	MHD	1,055.04	1,131.13
tblVehicleEF	MHD	9.52	9.48
tblVehicleEF	MHD	0.01	0.26
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	7.7690e-003	6.7670e-003
tblVehicleEF	MHD	0.42	8.89
tblVehicleEF	MHD	1.33	0.73
tblVehicleEF	MHD	1.66	1.18
tblVehicleEF	MHD	2.6200e-004	0.01
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	6.6930e-003	6.9530e-003
tblVehicleEF	MHD	1.1700e-004	1.1300e-004
tblVehicleEF	MHD	2.5100e-004	0.01
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.3960e-003	6.6410e-003
tblVehicleEF	MHD	1.0800e-004	1.0400e-004
tblVehicleEF	MHD	5.1600e-004	0.55
tblVehicleEF	MHD	0.02	6.3370e-003
tblVehicleEF	MHD	0.02	0.37

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	7.1000e-004	0.02
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.1600e-004	0.55
tblVehicleEF	MHD	0.02	6.3370e-003
tblVehicleEF	MHD	0.03	0.68
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	4.2350e-003	0.28
tblVehicleEF	MHD	1.5650e-003	0.02
tblVehicleEF	MHD	9.6460e-003	0.01
tblVehicleEF	MHD	0.49	11.28
tblVehicleEF	MHD	0.21	0.56
tblVehicleEF	MHD	1.07	1.58
tblVehicleEF	MHD	74.88	1,887.62
tblVehicleEF	MHD	1,055.03	1,285.82
tblVehicleEF	MHD	9.68	12.26
tblVehicleEF	MHD	0.01	0.28
tblVehicleEF	MHD	0.13	0.15
tblVehicleEF	MHD	8.1510e-003	8.5840e-003
tblVehicleEF	MHD	0.45	10.83
tblVehicleEF	MHD	1.38	1.19
tblVehicleEF	MHD	1.67	1.30
tblVehicleEF	MHD	3.6900e-004	0.03
tblVehicleEF	MHD	0.13	0.05
tblVehicleEF	MHD	6.6930e-003	0.01

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	1.1700e-004	1.5600e-004
tblVehicleEF	MHD	3.5300e-004	0.03
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.3960e-003	0.01
tblVehicleEF	MHD	1.0800e-004	1.4300e-004
tblVehicleEF	MHD	3.1400e-004	0.83
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.46
tblVehicleEF	MHD	0.01	0.05
tblVehicleEF	MHD	0.02	0.07
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	7.1000e-004	0.02
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.6000e-005	1.2100e-004
tblVehicleEF	MHD	3.1400e-004	0.83
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.03	0.82
tblVehicleEF	MHD	0.02	0.07
tblVehicleEF	MHD	0.02	0.07
tblVehicleEF	MHD	0.05	0.08
tblVehicleEF	OBUS	8.7420e-003	0.26
tblVehicleEF	OBUS	6.8350e-003	0.05
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.63	9.17
tblVehicleEF	OBUS	0.76	1.04
tblVehicleEF	OBUS	2.47	2.76
tblVehicleEF	OBUS	89.37	1,193.58
tblVehicleEF	OBUS	1,448.38	1,469.43
tblVehicleEF	OBUS	19.41	20.95

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	0.01	0.15
tblVehicleEF	OBUS	0.10	0.12
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.36	3.95
tblVehicleEF	OBUS	1.20	1.01
tblVehicleEF	OBUS	0.79	0.69
tblVehicleEF	OBUS	1.2200e-004	4.6030e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.7900e-003	0.02
tblVehicleEF	OBUS	2.4600e-004	2.3600e-004
tblVehicleEF	OBUS	1.1700e-004	4.3990e-003
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.4290e-003	0.02
tblVehicleEF	OBUS	2.2600e-004	2.1700e-004
tblVehicleEF	OBUS	1.8900e-003	2.46
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.83
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	0.12	0.13
tblVehicleEF	OBUS	8.5100e-004	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.9200e-004	2.0700e-004
tblVehicleEF	OBUS	1.8900e-003	2.46
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.07	1.22
tblVehicleEF	OBUS	0.05	0.13
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	0.13	0.14

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	8.8350e-003	0.26
tblVehicleEF	OBUS	7.0170e-003	0.05
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.63	9.20
tblVehicleEF	OBUS	0.78	1.03
tblVehicleEF	OBUS	2.31	2.74
tblVehicleEF	OBUS	88.36	1,193.76
tblVehicleEF	OBUS	1,448.41	1,468.06
tblVehicleEF	OBUS	19.14	20.88
tblVehicleEF	OBUS	0.01	0.15
tblVehicleEF	OBUS	0.10	0.12
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.34	3.91
tblVehicleEF	OBUS	1.14	0.99
tblVehicleEF	OBUS	0.77	0.69
tblVehicleEF	OBUS	1.0800e-004	4.5380e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.7900e-003	0.02
tblVehicleEF	OBUS	2.4600e-004	2.3500e-004
tblVehicleEF	OBUS	1.0400e-004	4.3370e-003
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.4290e-003	0.02
tblVehicleEF	OBUS	2.2600e-004	2.1600e-004
tblVehicleEF	OBUS	2.6560e-003	2.51
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.83
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	0.11	0.13

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	8.4100e-004	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.8900e-004	2.0600e-004
tblVehicleEF	OBUS	2.6560e-003	2.51
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.07	1.22
tblVehicleEF	OBUS	0.06	0.13
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	0.12	0.14
tblVehicleEF	OBUS	8.6320e-003	0.26
tblVehicleEF	OBUS	6.7550e-003	0.05
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.64	8.66
tblVehicleEF	OBUS	0.75	1.54
tblVehicleEF	OBUS	2.54	3.36
tblVehicleEF	OBUS	90.77	1,099.60
tblVehicleEF	OBUS	1,448.37	1,620.27
tblVehicleEF	OBUS	19.53	24.35
tblVehicleEF	OBUS	0.01	0.13
tblVehicleEF	OBUS	0.10	0.13
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.38	3.99
tblVehicleEF	OBUS	1.20	1.19
tblVehicleEF	OBUS	0.79	0.69
tblVehicleEF	OBUS	1.4100e-004	6.0400e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.7900e-003	0.02
tblVehicleEF	OBUS	2.4600e-004	2.7700e-004
tblVehicleEF	OBUS	1.3500e-004	5.7740e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.4290e-003	0.02
tblVehicleEF	OBUS	2.2600e-004	2.5500e-004
tblVehicleEF	OBUS	1.8230e-003	2.53
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.80
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.10	0.11
tblVehicleEF	OBUS	0.12	0.16
tblVehicleEF	OBUS	8.6400e-004	0.01
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	1.9300e-004	2.4100e-004
tblVehicleEF	OBUS	1.8230e-003	2.53
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.07	1.20
tblVehicleEF	OBUS	0.05	0.17
tblVehicleEF	OBUS	0.10	0.11
tblVehicleEF	OBUS	0.13	0.17
tblVehicleEF	SBUS	0.03	0.24
tblVehicleEF	SBUS	6.7050e-003	0.03
tblVehicleEF	SBUS	2.8650e-003	2.9830e-003
tblVehicleEF	SBUS	1.54	7.19
tblVehicleEF	SBUS	0.51	0.81
tblVehicleEF	SBUS	0.41	0.40
tblVehicleEF	SBUS	329.08	2,099.51
tblVehicleEF	SBUS	1,051.95	960.38
tblVehicleEF	SBUS	2.28	2.07
tblVehicleEF	SBUS	0.05	0.32
tblVehicleEF	SBUS	0.15	0.13

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	2.3850e-003	2.0080e-003
tblVehicleEF	SBUS	3.68	21.13
tblVehicleEF	SBUS	6.20	3.27
tblVehicleEF	SBUS	0.79	0.42
tblVehicleEF	SBUS	4.2070e-003	0.02
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.02
tblVehicleEF	SBUS	3.7000e-005	2.6000e-005
tblVehicleEF	SBUS	4.0250e-003	0.02
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.7990e-003	2.7230e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	3.4000e-005	2.4000e-005
tblVehicleEF	SBUS	2.4800e-004	0.10
tblVehicleEF	SBUS	2.7270e-003	5.9700e-003
tblVehicleEF	SBUS	0.16	0.53
tblVehicleEF	SBUS	0.10	0.07
tblVehicleEF	SBUS	5.0980e-003	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	3.1230e-003	0.02
tblVehicleEF	SBUS	0.01	9.0850e-003
tblVehicleEF	SBUS	2.3000e-005	2.0000e-005
tblVehicleEF	SBUS	2.4800e-004	0.10
tblVehicleEF	SBUS	2.7270e-003	5.9700e-003
tblVehicleEF	SBUS	0.22	0.86
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	5.0980e-003	0.14
tblVehicleEF	SBUS	0.02	0.02

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	0.03	0.24
tblVehicleEF	SBUS	6.7740e-003	0.03
tblVehicleEF	SBUS	2.4930e-003	2.9490e-003
tblVehicleEF	SBUS	1.49	7.18
tblVehicleEF	SBUS	0.51	0.81
tblVehicleEF	SBUS	0.32	0.39
tblVehicleEF	SBUS	339.04	2,104.57
tblVehicleEF	SBUS	1,051.96	959.76
tblVehicleEF	SBUS	2.13	2.05
tblVehicleEF	SBUS	0.05	0.32
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	2.2890e-003	2.0090e-003
tblVehicleEF	SBUS	3.77	21.12
tblVehicleEF	SBUS	5.98	3.23
tblVehicleEF	SBUS	0.79	0.42
tblVehicleEF	SBUS	3.5540e-003	0.02
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.02
tblVehicleEF	SBUS	3.7000e-005	2.6000e-005
tblVehicleEF	SBUS	3.4000e-003	0.02
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.7990e-003	2.7230e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	3.4000e-005	2.4000e-005
tblVehicleEF	SBUS	3.5400e-004	0.11
tblVehicleEF	SBUS	2.8050e-003	5.9570e-003
tblVehicleEF	SBUS	0.16	0.53
tblVehicleEF	SBUS	0.10	0.07

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	4.4360e-003	0.14
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	3.2170e-003	0.02
tblVehicleEF	SBUS	0.01	9.0790e-003
tblVehicleEF	SBUS	2.1000e-005	2.0000e-005
tblVehicleEF	SBUS	3.5400e-004	0.11
tblVehicleEF	SBUS	2.8050e-003	5.9570e-003
tblVehicleEF	SBUS	0.22	0.86
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	4.4360e-003	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.03	0.20
tblVehicleEF	SBUS	6.6730e-003	0.03
tblVehicleEF	SBUS	3.0490e-003	3.5710e-003
tblVehicleEF	SBUS	1.59	6.71
tblVehicleEF	SBUS	0.50	1.34
tblVehicleEF	SBUS	0.45	0.57
tblVehicleEF	SBUS	315.32	2,191.16
tblVehicleEF	SBUS	1,051.94	1,071.53
tblVehicleEF	SBUS	2.35	2.33
tblVehicleEF	SBUS	0.05	0.34
tblVehicleEF	SBUS	0.15	0.15
tblVehicleEF	SBUS	2.4480e-003	1.8230e-003
tblVehicleEF	SBUS	3.56	26.46
tblVehicleEF	SBUS	6.18	5.32
tblVehicleEF	SBUS	0.79	0.35
tblVehicleEF	SBUS	5.1090e-003	0.04
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	3.7000e-005	2.8000e-005
tblVehicleEF	SBUS	4.8880e-003	0.04
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.7990e-003	2.7500e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	3.4000e-005	2.6000e-005
tblVehicleEF	SBUS	2.3700e-004	0.13
tblVehicleEF	SBUS	2.8760e-003	8.5790e-003
tblVehicleEF	SBUS	0.16	0.52
tblVehicleEF	SBUS	0.10	0.11
tblVehicleEF	SBUS	6.5520e-003	0.20
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.9930e-003	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.3700e-004	0.13
tblVehicleEF	SBUS	2.8760e-003	8.5790e-003
tblVehicleEF	SBUS	0.22	0.82
tblVehicleEF	SBUS	0.12	0.16
tblVehicleEF	SBUS	6.5520e-003	0.20
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	UBUS	4.89	2.27
tblVehicleEF	UBUS	0.02	5.3340e-003
tblVehicleEF	UBUS	38.17	29.02
tblVehicleEF	UBUS	1.22	0.76
tblVehicleEF	UBUS	1,896.29	1,072.80
tblVehicleEF	UBUS	13.82	5.22
tblVehicleEF	UBUS	0.31	0.20
tblVehicleEF	UBUS	0.01	7.7200e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	UBUS	0.41	0.16
tblVehicleEF	UBUS	0.13	0.05
tblVehicleEF	UBUS	0.07	0.10
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1030e-003	3.0700e-004
tblVehicleEF	UBUS	1.7700e-004	2.6000e-005
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9470e-003	2.8900e-004
tblVehicleEF	UBUS	1.6300e-004	2.4000e-005
tblVehicleEF	UBUS	5.5800e-004	0.06
tblVehicleEF	UBUS	6.6510e-003	4.5170e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	1.1160e-003	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	3.6950e-003	9.5100e-004
tblVehicleEF	UBUS	1.3700e-004	5.2000e-005
tblVehicleEF	UBUS	5.5800e-004	0.06
tblVehicleEF	UBUS	6.6510e-003	4.5170e-003
tblVehicleEF	UBUS	5.00	2.32
tblVehicleEF	UBUS	1.1160e-003	0.01
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	4.89	2.29
tblVehicleEF	UBUS	0.01	5.2980e-003
tblVehicleEF	UBUS	38.17	29.21
tblVehicleEF	UBUS	1.05	0.75
tblVehicleEF	UBUS	1,896.29	1,072.31
tblVehicleEF	UBUS	13.53	5.21
tblVehicleEF	UBUS	0.31	0.20

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	UBUS	0.01	7.7000e-003
tblVehicleEF	UBUS	0.40	0.15
tblVehicleEF	UBUS	0.13	0.05
tblVehicleEF	UBUS	0.07	0.10
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1030e-003	3.0800e-004
tblVehicleEF	UBUS	1.7700e-004	2.6000e-005
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9470e-003	2.9000e-004
tblVehicleEF	UBUS	1.6300e-004	2.4000e-005
tblVehicleEF	UBUS	7.9100e-004	0.06
tblVehicleEF	UBUS	7.1380e-003	4.5490e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	1.0150e-003	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	3.6950e-003	9.5100e-004
tblVehicleEF	UBUS	1.3400e-004	5.2000e-005
tblVehicleEF	UBUS	7.9100e-004	0.06
tblVehicleEF	UBUS	7.1380e-003	4.5490e-003
tblVehicleEF	UBUS	5.00	2.34
tblVehicleEF	UBUS	1.0150e-003	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	4.89	2.14
tblVehicleEF	UBUS	0.02	8.1080e-003
tblVehicleEF	UBUS	38.17	30.34
tblVehicleEF	UBUS	1.30	0.80
tblVehicleEF	UBUS	1,896.29	1,438.99
tblVehicleEF	UBUS	13.95	5.83

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	UBUS	0.31	0.27
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.41	0.32
tblVehicleEF	UBUS	0.14	0.08
tblVehicleEF	UBUS	0.07	0.11
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1030e-003	2.9200e-004
tblVehicleEF	UBUS	1.7700e-004	2.1000e-005
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9470e-003	2.7500e-004
tblVehicleEF	UBUS	1.6300e-004	1.9000e-005
tblVehicleEF	UBUS	5.0900e-004	0.09
tblVehicleEF	UBUS	7.5380e-003	8.2650e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	1.3590e-003	0.01
tblVehicleEF	UBUS	0.06	0.03
tblVehicleEF	UBUS	3.6950e-003	1.0580e-003
tblVehicleEF	UBUS	1.3800e-004	5.8000e-005
tblVehicleEF	UBUS	5.0900e-004	0.09
tblVehicleEF	UBUS	7.5380e-003	8.2650e-003
tblVehicleEF	UBUS	5.00	2.19
tblVehicleEF	UBUS	1.3590e-003	0.01
tblVehicleEF	UBUS	0.07	0.03

2.0 Emissions Summary

NASSCO - Phase 2 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	2.2258	18.2481	21.4926	0.0721	0.1144	0.7244	0.8388	0.0306	0.6810	0.7116	0.0000	6,952.2395	6,952.2395	1.5985	0.0208	6,998.3952
2025	2.0962	16.4256	21.2796	0.0721	0.1144	0.6259	0.7403	0.0306	0.5882	0.6189	0.0000	6,953.7775	6,953.7775	1.5968	0.0203	6,999.7487
Maximum	**2.2258**	**18.2481**	**21.4926**	**0.0721**	**0.1144**	**0.7244**	**0.8388**	**0.0306**	**0.6810**	**0.7116**	**0.0000**	**6,953.7775**	**6,953.7775**	**1.5985**	**0.0208**	**6,999.7487**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	1.4807	10.2573	29.8247	0.0721	0.1144	0.3822	0.4966	0.0306	0.3654	0.3960	0.0000	6,952.2395	6,952.2395	1.5985	0.0208	6,998.3952
2025	1.4181	9.4854	29.7857	0.0721	0.1144	0.3320	0.4464	0.0306	0.3180	0.3486	0.0000	6,953.7775	6,953.7775	1.5968	0.0203	6,999.7487
Maximum	**1.4807**	**10.2573**	**29.8247**	**0.0721**	**0.1144**	**0.3822**	**0.4966**	**0.0306**	**0.3654**	**0.3960**	**0.0000**	**6,953.7775**	**6,953.7775**	**1.5985**	**0.0208**	**6,999.7487**

NASSCO - Phase 2 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	32.93	43.06	-39.37	0.00	0.00	47.11	40.28	0.00	46.16	44.04	0.00	0.00	0.00	0.00	0.00	0.00

NASSCO - Phase 2 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3498	1.0000e-005	1.2800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.7600e-003	2.7600e-003	1.0000e-005		2.9400e-003
Energy	4.2900e-003	0.0390	0.0328	2.3000e-004		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003		46.7855	46.7855	9.0000e-004	8.6000e-004	47.0635
Mobile	0.5121	0.2866	2.1262	4.9000e-003	0.4564	3.5900e-003	0.4600	0.1137	3.3600e-003	0.1171		499.9598	499.9598	0.0271	0.0224	507.3027
Total	**0.8662**	**0.3256**	**2.1602**	**5.1300e-003**	**0.4564**	**6.5500e-003**	**0.4630**	**0.1137**	**6.3200e-003**	**0.1201**		**546.7481**	**546.7481**	**0.0280**	**0.0232**	**554.3691**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3498	1.0000e-005	1.2800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.7600e-003	2.7600e-003	1.0000e-005		2.9400e-003
Energy	4.2900e-003	0.0390	0.0328	2.3000e-004		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003		46.7855	46.7855	9.0000e-004	8.6000e-004	47.0635
Mobile	0.5121	0.2866	2.1262	4.9000e-003	0.4564	3.5900e-003	0.4600	0.1137	3.3600e-003	0.1171		499.9598	499.9598	0.0271	0.0224	507.3027
Total	**0.8662**	**0.3256**	**2.1602**	**5.1300e-003**	**0.4564**	**6.5500e-003**	**0.4630**	**0.1137**	**6.3200e-003**	**0.1201**		**546.7481**	**546.7481**	**0.0280**	**0.0232**	**554.3691**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Repair Complex Wharf	Building Construction	9/17/2024	7/9/2025	7	296	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Repair Complex Wharf	Air Compressors	1	8.00	78	0.48
Repair Complex Wharf	Bore/Drill Rigs	1	4.00	595	0.50
Repair Complex Wharf	Bore/Drill Rigs	1	4.00	595	0.50
Repair Complex Wharf	Cranes	1	8.00	282	0.29
Repair Complex Wharf	Crushing/Proc. Equipment	1	8.00	10	0.78
Repair Complex Wharf	Excavators	1	4.00	242	0.38
Repair Complex Wharf	Forklifts	2	6.00	89	0.20
Repair Complex Wharf	Off-Highway Trucks	1	2.00	385	0.38
Repair Complex Wharf	Other Construction Equipment	1	4.00	595	0.50
Repair Complex Wharf	Pumps	1	8.00	225	0.74

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Repair Complex Wharf	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Repair Complex Wharf	13	10.00	0.00	546.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Repair Complex Wharf - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1960	17.9936	21.2005	0.0703		0.7219	0.7219		0.6787	0.6787		6,759.9921	6,759.9921	1.5904		6,799.7519
Total	**2.1960**	**17.9936**	**21.2005**	**0.0703**		**0.7219**	**0.7219**		**0.6787**	**0.6787**		**6,759.9921**	**6,759.9921**	**1.5904**		**6,799.7519**

NASSCO - Phase 2 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Repair Complex Wharf - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.1300e-003	0.2392	0.0672	1.0800e-003	0.0323	2.0600e-003	0.0343	8.8400e-003	1.9700e-003	0.0108		119.8316	119.8316	6.3300e-003	0.0191	125.6730
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0257	0.0153	0.2249	7.0000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.9000e-004	0.0222		72.4158	72.4158	1.8100e-003	1.7100e-003	72.9704
Total	**0.0298**	**0.2545**	**0.2921**	**1.7800e-003**	**0.1144**	**2.4800e-003**	**0.1169**	**0.0306**	**2.3600e-003**	**0.0330**		**192.2473**	**192.2473**	**8.1400e-003**	**0.0208**	**198.6433**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4508	10.0028	29.5326	0.0703		0.3798	0.3798		0.3630	0.3630	0.0000	6,759.9921	6,759.9921	1.5904		6,799.7519
Total	**1.4508**	**10.0028**	**29.5326**	**0.0703**		**0.3798**	**0.3798**		**0.3630**	**0.3630**	**0.0000**	**6,759.9921**	**6,759.9921**	**1.5904**		**6,799.7519**

NASSCO - Phase 2 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Repair Complex Wharf - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.1300e-003	0.2392	0.0672	1.0800e-003	0.0323	2.0600e-003	0.0343	8.8400e-003	1.9700e-003	0.0108		119.8316	119.8316	6.3300e-003	0.0191	125.6730
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0257	0.0153	0.2249	7.0000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.9000e-004	0.0222		72.4158	72.4158	1.8100e-003	1.7100e-003	72.9704
Total	**0.0298**	**0.2545**	**0.2921**	**1.7800e-003**	**0.1144**	**2.4800e-003**	**0.1169**	**0.0306**	**2.3600e-003**	**0.0330**		**192.2473**	**192.2473**	**8.1400e-003**	**0.0208**	**198.6433**

3.2 Repair Complex Wharf - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0679	16.1758	21.0004	0.0704		0.6235	0.6235		0.5859	0.5859		6,765.7359	6,765.7359	1.5887		6,805.4522
Total	**2.0679**	**16.1758**	**21.0004**	**0.0704**		**0.6235**	**0.6235**		**0.5859**	**0.5859**		**6,765.7359**	**6,765.7359**	**1.5887**		**6,805.4522**

NASSCO - Phase 2 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Repair Complex Wharf - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.0800e-003	0.2360	0.0682	1.0600e-003	0.0323	2.0500e-003	0.0343	8.8400e-003	1.9600e-003	0.0108		117.4012	117.4012	6.5400e-003	0.0187	123.1368
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0242	0.0138	0.2110	6.8000e-004	0.0822	4.0000e-004	0.0826	0.0218	3.7000e-004	0.0222		70.6404	70.6404	1.6500e-003	1.6000e-003	71.1598
Total	**0.0283**	**0.2498**	**0.2791**	**1.7400e-003**	**0.1144**	**2.4500e-003**	**0.1169**	**0.0306**	**2.3300e-003**	**0.0330**		**188.0416**	**188.0416**	**8.1900e-003**	**0.0203**	**194.2965**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3898	9.2356	29.5065	0.0704		0.3295	0.3295		0.3156	0.3156	0.0000	6,765.7359	6,765.7359	1.5887		6,805.4522
Total	**1.3898**	**9.2356**	**29.5065**	**0.0704**		**0.3295**	**0.3295**		**0.3156**	**0.3156**	**0.0000**	**6,765.7359**	**6,765.7359**	**1.5887**		**6,805.4522**

NASSCO - Phase 2 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Repair Complex Wharf - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.0800e-003	0.2360	0.0682	1.0600e-003	0.0323	2.0500e-003	0.0343	8.8400e-003	1.9600e-003	0.0108		117.4012	117.4012	6.5400e-003	0.0187	123.1368
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0242	0.0138	0.2110	6.8000e-004	0.0822	4.0000e-004	0.0826	0.0218	3.7000e-004	0.0222		70.6404	70.6404	1.6500e-003	1.6000e-003	71.1598
Total	**0.0283**	**0.2498**	**0.2791**	**1.7400e-003**	**0.1144**	**2.4500e-003**	**0.1169**	**0.0306**	**2.3300e-003**	**0.0330**		**188.0416**	**188.0416**	**8.1900e-003**	**0.0203**	**194.2965**

NASSCO - Phase 2 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5121	0.2866	2.1262	4.9000e-003	0.4564	3.5900e-003	0.4600	0.1137	3.3600e-003	0.1171		499.9598	499.9598	0.0271	0.0224	507.3027
Unmitigated	0.5121	0.2866	2.1262	4.9000e-003	0.4564	3.5900e-003	0.4600	0.1137	3.3600e-003	0.1171		499.9598	499.9598	0.0271	0.0224	507.3027

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	49.52	80.89	64.13	163,750	163,750
Total	49.52	80.89	64.13	163,750	163,750

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.2900e-003	0.0390	0.0328	2.3000e-004		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003		46.7855	46.7855	9.0000e-004	8.6000e-004	47.0635
NaturalGas Unmitigated	4.2900e-003	0.0390	0.0328	2.3000e-004		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003		46.7855	46.7855	9.0000e-004	8.6000e-004	47.0635

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	397.677	4.2900e-003	0.0390	0.0328	2.3000e-004		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003		46.7855	46.7855	9.0000e-004	8.6000e-004	47.0635
Total		**4.2900e-003**	**0.0390**	**0.0328**	**2.3000e-004**		**2.9600e-003**	**2.9600e-003**		**2.9600e-003**	**2.9600e-003**		**46.7855**	**46.7855**	**9.0000e-004**	**8.6000e-004**	**47.0635**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	0.397677	4.2900e-003	0.0390	0.0328	2.3000e-004		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003		46.7855	46.7855	9.0000e-004	8.6000e-004	47.0635
Total		**4.2900e-003**	**0.0390**	**0.0328**	**2.3000e-004**		**2.9600e-003**	**2.9600e-003**		**2.9600e-003**	**2.9600e-003**		**46.7855**	**46.7855**	**9.0000e-004**	**8.6000e-004**	**47.0635**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3498	1.0000e-005	1.2800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.7600e-003	2.7600e-003	1.0000e-005		2.9400e-003
Unmitigated	0.3498	1.0000e-005	1.2800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.7600e-003	2.7600e-003	1.0000e-005		2.9400e-003

NASSCO - Phase 2 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0800					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2696					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2000e-004	1.0000e-005	1.2800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.7600e-003	2.7600e-003	1.0000e-005		2.9400e-003
Total	**0.3498**	**1.0000e-005**	**1.2800e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.7600e-003**	**2.7600e-003**	**1.0000e-005**		**2.9400e-003**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0800					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2696					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2000e-004	1.0000e-005	1.2800e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.7600e-003	2.7600e-003	1.0000e-005		2.9400e-003
Total	**0.3498**	**1.0000e-005**	**1.2800e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.7600e-003**	**2.7600e-003**	**1.0000e-005**		**2.9400e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

NASSCO - Phases 3 & 4

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	53.90	1000sqft	1.24	53,900.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2028
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Repairs to the quay wall toe of slope and failed revetment along Quay Wall throughout the NASSCO shipyard, 53,900 sq ft.

Construction Phase - Client provided information. Phase 3 (Jan 2, 2024 - Feb 29, 2024) and Phase 4 (Jan 2025 - Dec 2027): Repairs to the quay wall toe of slope and failed revetment along Quay Wall throughout the NASSCO shipyard.

Off-road Equipment - Client supplied equipment list

Off-road Equipment - client provided equipment list

Off-road Equipment - client provided equipment list

Trips and VMT - 2 haul truck trips per day per client. Most materials will be transported via water access.

Vehicle Trips -

Vehicle Emission Factors - EMFAC 2021 Emission Factors

Vehicle Emission Factors - EMFAC 2021 Emission Factors

Vehicle Emission Factors - EMFAC 2021 Emission Factors

NASSCO - Phases 3 & 4 - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Area Coating -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Mitigation: At least 90% Tier 4 engines.

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	200.00	59.00
tblConstructionPhase	NumDays	200.00	1,094.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	231.00	282.00
tblOffRoadEquipment	HorsePower	85.00	10.00
tblOffRoadEquipment	HorsePower	158.00	242.00
tblOffRoadEquipment	HorsePower	402.00	385.00
tblOffRoadEquipment	HorsePower	172.00	595.00
tblOffRoadEquipment	HorsePower	84.00	225.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	231.00	282.00
tblOffRoadEquipment	HorsePower	85.00	10.00
tblOffRoadEquipment	HorsePower	158.00	242.00
tblOffRoadEquipment	HorsePower	402.00	385.00
tblOffRoadEquipment	HorsePower	172.00	595.00
tblOffRoadEquipment	HorsePower	84.00	225.00
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	118.00
tblTripsAndVMT	HaulingTripNumber	0.00	2,188.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblTripsAndVMT	VendorTripNumber	9.00	0.00
tblTripsAndVMT	VendorTripNumber	9.00	0.00
tblTripsAndVMT	WorkerTripNumber	23.00	10.00
tblTripsAndVMT	WorkerTripNumber	23.00	10.00
tblVehicleEF	HHD	0.03	0.71
tblVehicleEF	HHD	0.09	0.06
tblVehicleEF	HHD	6.61	76.55
tblVehicleEF	HHD	0.54	0.50
tblVehicleEF	HHD	8.0490e-003	2.5080e-003
tblVehicleEF	HHD	1,014.58	11,481.16
tblVehicleEF	HHD	1,293.14	1,449.81
tblVehicleEF	HHD	0.07	0.02
tblVehicleEF	HHD	0.16	1.82
tblVehicleEF	HHD	0.21	0.23
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	5.53	63.27
tblVehicleEF	HHD	2.47	1.66
tblVehicleEF	HHD	2.37	2.66
tblVehicleEF	HHD	2.5260e-003	0.03
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	2.4170e-003	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8720e-003	8.8370e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.0000e-006	3.0070e-003
tblVehicleEF	HHD	1.0800e-004	4.2000e-005
tblVehicleEF	HHD	0.44	5.14

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	4.6000e-005	1.5500e-004
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	9.3450e-003	0.11
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	2.0000e-006	3.0070e-003
tblVehicleEF	HHD	1.0800e-004	4.2000e-005
tblVehicleEF	HHD	0.51	6.33
tblVehicleEF	HHD	0.11	0.08
tblVehicleEF	HHD	4.6000e-005	1.5500e-004
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.74
tblVehicleEF	HHD	0.09	0.06
tblVehicleEF	HHD	6.52	76.53
tblVehicleEF	HHD	0.54	0.52
tblVehicleEF	HHD	7.5650e-003	2.2820e-003
tblVehicleEF	HHD	1,002.69	11,332.25
tblVehicleEF	HHD	1,293.14	1,433.35
tblVehicleEF	HHD	0.07	0.02
tblVehicleEF	HHD	0.16	1.80
tblVehicleEF	HHD	0.21	0.23
tblVehicleEF	HHD	5.28	62.43
tblVehicleEF	HHD	2.38	1.59
tblVehicleEF	HHD	2.37	2.67
tblVehicleEF	HHD	2.2170e-003	0.03
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	2.1210e-003	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8720e-003	8.8380e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	3.0000e-006	2.5580e-003
tblVehicleEF	HHD	1.1100e-004	3.4000e-005
tblVehicleEF	HHD	0.47	5.14
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	4.4000e-005	1.3900e-004
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	9.2350e-003	0.10
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	3.0000e-006	2.5580e-003
tblVehicleEF	HHD	1.1100e-004	3.4000e-005
tblVehicleEF	HHD	0.54	6.36
tblVehicleEF	HHD	0.11	0.08
tblVehicleEF	HHD	4.4000e-005	1.3900e-004
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.80
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	6.73	80.34
tblVehicleEF	HHD	0.54	0.57
tblVehicleEF	HHD	8.2630e-003	5.0770e-003
tblVehicleEF	HHD	1,031.01	13,127.44
tblVehicleEF	HHD	1,293.13	1,652.70
tblVehicleEF	HHD	0.08	0.05

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	HHD	0.16	2.08
tblVehicleEF	HHD	0.21	0.26
tblVehicleEF	HHD	1.0000e-006	8.0000e-006
tblVehicleEF	HHD	5.88	70.64
tblVehicleEF	HHD	2.46	2.06
tblVehicleEF	HHD	2.37	2.75
tblVehicleEF	HHD	2.9540e-003	0.04
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	2.8260e-003	0.04
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8720e-003	8.8310e-003
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	2.0000e-006	8.0720e-003
tblVehicleEF	HHD	1.1700e-004	1.1600e-004
tblVehicleEF	HHD	0.41	4.92
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	5.0000e-005	3.1900e-004
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	HHD	9.4970e-003	0.12
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	2.0000e-006	8.0720e-003
tblVehicleEF	HHD	1.1700e-004	1.1600e-004
tblVehicleEF	HHD	0.47	6.17
tblVehicleEF	HHD	0.11	0.11
tblVehicleEF	HHD	5.0000e-005	3.1900e-004

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	LDA	1.2050e-003	1.9870e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.42	0.57
tblVehicleEF	LDA	1.73	2.34
tblVehicleEF	LDA	228.87	252.96
tblVehicleEF	LDA	46.63	60.27
tblVehicleEF	LDA	3.3570e-003	3.7030e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.13	0.20
tblVehicleEF	LDA	0.04	7.0230e-003
tblVehicleEF	LDA	1.1630e-003	1.2570e-003
tblVehicleEF	LDA	1.4530e-003	1.6670e-003
tblVehicleEF	LDA	0.02	2.4580e-003
tblVehicleEF	LDA	1.0700e-003	1.1560e-003
tblVehicleEF	LDA	1.3360e-003	1.5330e-003
tblVehicleEF	LDA	0.03	1.20
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	4.1310e-003	7.1680e-003
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.13	0.23
tblVehicleEF	LDA	2.1460e-003	2.5010e-003
tblVehicleEF	LDA	4.3700e-004	5.9600e-004
tblVehicleEF	LDA	0.03	1.20
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	5.9960e-003	0.01
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.15	0.25

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDA	1.3140e-003	1.9740e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.47	0.58
tblVehicleEF	LDA	1.43	2.29
tblVehicleEF	LDA	241.53	253.65
tblVehicleEF	LDA	46.08	60.06
tblVehicleEF	LDA	3.1640e-003	3.6470e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.12	0.20
tblVehicleEF	LDA	0.04	7.0210e-003
tblVehicleEF	LDA	1.1630e-003	1.2510e-003
tblVehicleEF	LDA	1.4530e-003	1.6610e-003
tblVehicleEF	LDA	0.02	2.4570e-003
tblVehicleEF	LDA	1.0700e-003	1.1520e-003
tblVehicleEF	LDA	1.3360e-003	1.5270e-003
tblVehicleEF	LDA	0.04	1.22
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	4.4440e-003	7.0860e-003
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.12	0.23
tblVehicleEF	LDA	2.2650e-003	2.5070e-003
tblVehicleEF	LDA	4.3200e-004	5.9400e-004
tblVehicleEF	LDA	0.04	1.22
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	6.4530e-003	0.01
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.13	0.25
tblVehicleEF	LDA	1.1790e-003	2.8490e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDA	0.03	0.07
tblVehicleEF	LDA	0.41	0.70
tblVehicleEF	LDA	1.86	3.25
tblVehicleEF	LDA	226.58	281.69
tblVehicleEF	LDA	46.86	68.09
tblVehicleEF	LDA	3.3780e-003	4.6970e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	0.14	0.25
tblVehicleEF	LDA	0.04	7.1270e-003
tblVehicleEF	LDA	1.1630e-003	1.6660e-003
tblVehicleEF	LDA	1.4530e-003	2.0740e-003
tblVehicleEF	LDA	0.02	2.4940e-003
tblVehicleEF	LDA	1.0700e-003	1.5340e-003
tblVehicleEF	LDA	1.3360e-003	1.9070e-003
tblVehicleEF	LDA	0.02	1.35
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	4.0620e-003	0.01
tblVehicleEF	LDA	0.03	0.22
tblVehicleEF	LDA	0.14	0.33
tblVehicleEF	LDA	2.1250e-003	2.7840e-003
tblVehicleEF	LDA	4.3900e-004	6.7300e-004
tblVehicleEF	LDA	0.02	1.35
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	5.8950e-003	0.02
tblVehicleEF	LDA	0.03	0.22
tblVehicleEF	LDA	0.15	0.36
tblVehicleEF	LDT1	3.1400e-003	7.4770e-003
tblVehicleEF	LDT1	0.05	0.10

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT1	0.72	1.41
tblVehicleEF	LDT1	1.94	4.84
tblVehicleEF	LDT1	283.24	340.26
tblVehicleEF	LDT1	58.55	83.40
tblVehicleEF	LDT1	5.1360e-003	9.3350e-003
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.06	0.12
tblVehicleEF	LDT1	0.19	0.37
tblVehicleEF	LDT1	0.04	9.2390e-003
tblVehicleEF	LDT1	1.4830e-003	2.1880e-003
tblVehicleEF	LDT1	1.8340e-003	2.7210e-003
tblVehicleEF	LDT1	0.02	3.2340e-003
tblVehicleEF	LDT1	1.3640e-003	2.0130e-003
tblVehicleEF	LDT1	1.6860e-003	2.5020e-003
tblVehicleEF	LDT1	0.07	3.05
tblVehicleEF	LDT1	0.15	0.18
tblVehicleEF	LDT1	0.01	0.03
tblVehicleEF	LDT1	0.07	0.53
tblVehicleEF	LDT1	0.23	0.51
tblVehicleEF	LDT1	2.6560e-003	3.3640e-003
tblVehicleEF	LDT1	5.4900e-004	8.2400e-004
tblVehicleEF	LDT1	0.07	3.05
tblVehicleEF	LDT1	0.15	0.18
tblVehicleEF	LDT1	0.02	0.05
tblVehicleEF	LDT1	0.07	0.53
tblVehicleEF	LDT1	0.25	0.56
tblVehicleEF	LDT1	3.3950e-003	7.4210e-003
tblVehicleEF	LDT1	0.04	0.10
tblVehicleEF	LDT1	0.81	1.43

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT1	1.60	4.70
tblVehicleEF	LDT1	296.67	341.45
tblVehicleEF	LDT1	57.89	83.03
tblVehicleEF	LDT1	4.7940e-003	9.1450e-003
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.05	0.12
tblVehicleEF	LDT1	0.17	0.37
tblVehicleEF	LDT1	0.04	9.2400e-003
tblVehicleEF	LDT1	1.4830e-003	2.1720e-003
tblVehicleEF	LDT1	1.8340e-003	2.7020e-003
tblVehicleEF	LDT1	0.02	3.2340e-003
tblVehicleEF	LDT1	1.3640e-003	1.9980e-003
tblVehicleEF	LDT1	1.6860e-003	2.4850e-003
tblVehicleEF	LDT1	0.11	3.10
tblVehicleEF	LDT1	0.16	0.18
tblVehicleEF	LDT1	0.01	0.03
tblVehicleEF	LDT1	0.07	0.53
tblVehicleEF	LDT1	0.20	0.50
tblVehicleEF	LDT1	2.7820e-003	3.3760e-003
tblVehicleEF	LDT1	5.4300e-004	8.2100e-004
tblVehicleEF	LDT1	0.11	3.10
tblVehicleEF	LDT1	0.16	0.18
tblVehicleEF	LDT1	0.02	0.05
tblVehicleEF	LDT1	0.07	0.53
tblVehicleEF	LDT1	0.22	0.54
tblVehicleEF	LDT1	3.0790e-003	0.01
tblVehicleEF	LDT1	0.05	0.13
tblVehicleEF	LDT1	0.71	1.84
tblVehicleEF	LDT1	2.08	6.81

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT1	280.81	362.43
tblVehicleEF	LDT1	58.82	91.86
tblVehicleEF	LDT1	5.1780e-003	0.01
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.06	0.19
tblVehicleEF	LDT1	0.20	0.48
tblVehicleEF	LDT1	0.04	9.2870e-003
tblVehicleEF	LDT1	1.4830e-003	2.8810e-003
tblVehicleEF	LDT1	1.8340e-003	3.4250e-003
tblVehicleEF	LDT1	0.02	3.2500e-003
tblVehicleEF	LDT1	1.3640e-003	2.6510e-003
tblVehicleEF	LDT1	1.6860e-003	3.1490e-003
tblVehicleEF	LDT1	0.06	3.43
tblVehicleEF	LDT1	0.17	0.21
tblVehicleEF	LDT1	0.01	0.05
tblVehicleEF	LDT1	0.09	0.66
tblVehicleEF	LDT1	0.24	0.71
tblVehicleEF	LDT1	2.6330e-003	3.5830e-003
tblVehicleEF	LDT1	5.5200e-004	9.0800e-004
tblVehicleEF	LDT1	0.06	3.43
tblVehicleEF	LDT1	0.17	0.21
tblVehicleEF	LDT1	0.02	0.07
tblVehicleEF	LDT1	0.09	0.66
tblVehicleEF	LDT1	0.26	0.77
tblVehicleEF	LDT2	2.2610e-003	2.9450e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.59	0.75
tblVehicleEF	LDT2	2.28	2.95
tblVehicleEF	LDT2	290.11	343.90

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT2	60.09	80.72
tblVehicleEF	LDT2	4.5370e-003	5.3400e-003
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.19	0.28
tblVehicleEF	LDT2	0.04	8.7990e-003
tblVehicleEF	LDT2	1.2510e-003	1.4140e-003
tblVehicleEF	LDT2	1.4850e-003	1.7750e-003
tblVehicleEF	LDT2	0.02	3.0800e-003
tblVehicleEF	LDT2	1.1520e-003	1.3010e-003
tblVehicleEF	LDT2	1.3650e-003	1.6320e-003
tblVehicleEF	LDT2	0.05	1.32
tblVehicleEF	LDT2	0.10	0.07
tblVehicleEF	LDT2	8.6700e-003	0.01
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.21	0.30
tblVehicleEF	LDT2	2.7200e-003	3.3990e-003
tblVehicleEF	LDT2	5.6300e-004	7.9800e-004
tblVehicleEF	LDT2	0.05	1.32
tblVehicleEF	LDT2	0.10	0.07
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.23	0.33
tblVehicleEF	LDT2	2.4540e-003	2.9320e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.66	0.76
tblVehicleEF	LDT2	1.88	2.88
tblVehicleEF	LDT2	302.56	344.65
tblVehicleEF	LDT2	59.34	80.46

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT2	4.2620e-003	5.2550e-003
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.17	0.27
tblVehicleEF	LDT2	0.04	8.7980e-003
tblVehicleEF	LDT2	1.2510e-003	1.4100e-003
tblVehicleEF	LDT2	1.4850e-003	1.7710e-003
tblVehicleEF	LDT2	0.02	3.0790e-003
tblVehicleEF	LDT2	1.1520e-003	1.2970e-003
tblVehicleEF	LDT2	1.3650e-003	1.6280e-003
tblVehicleEF	LDT2	0.08	1.34
tblVehicleEF	LDT2	0.11	0.07
tblVehicleEF	LDT2	9.3070e-003	0.01
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.18	0.30
tblVehicleEF	LDT2	2.8370e-003	3.4070e-003
tblVehicleEF	LDT2	5.5600e-004	7.9500e-004
tblVehicleEF	LDT2	0.08	1.34
tblVehicleEF	LDT2	0.11	0.07
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.20	0.32
tblVehicleEF	LDT2	2.2140e-003	4.0080e-003
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.58	0.90
tblVehicleEF	LDT2	2.45	4.00
tblVehicleEF	LDT2	287.86	375.58
tblVehicleEF	LDT2	60.40	90.06
tblVehicleEF	LDT2	4.5690e-003	6.9200e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.04	0.08
tblVehicleEF	LDT2	0.19	0.37
tblVehicleEF	LDT2	0.04	8.8250e-003
tblVehicleEF	LDT2	1.2510e-003	1.7680e-003
tblVehicleEF	LDT2	1.4850e-003	2.1270e-003
tblVehicleEF	LDT2	0.02	3.0890e-003
tblVehicleEF	LDT2	1.1520e-003	1.6270e-003
tblVehicleEF	LDT2	1.3650e-003	1.9560e-003
tblVehicleEF	LDT2	0.04	1.45
tblVehicleEF	LDT2	0.11	0.09
tblVehicleEF	LDT2	8.5290e-003	0.02
tblVehicleEF	LDT2	0.06	0.24
tblVehicleEF	LDT2	0.22	0.42
tblVehicleEF	LDT2	2.6990e-003	3.7120e-003
tblVehicleEF	LDT2	5.6600e-004	8.9000e-004
tblVehicleEF	LDT2	0.04	1.45
tblVehicleEF	LDT2	0.11	0.09
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.24
tblVehicleEF	LDT2	0.24	0.46
tblVehicleEF	LHD1	4.0280e-003	0.06
tblVehicleEF	LHD1	6.3290e-003	6.3690e-003
tblVehicleEF	LHD1	9.5670e-003	0.02
tblVehicleEF	LHD1	0.17	2.53
tblVehicleEF	LHD1	0.59	0.70
tblVehicleEF	LHD1	0.84	1.82
tblVehicleEF	LHD1	8.71	114.95
tblVehicleEF	LHD1	704.27	686.69

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD1	9.45	14.76
tblVehicleEF	LHD1	8.3800e-004	9.1300e-003
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.06	0.68
tblVehicleEF	LHD1	0.58	0.62
tblVehicleEF	LHD1	0.22	0.33
tblVehicleEF	LHD1	1.0230e-003	0.01
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.01	9.5540e-003
tblVehicleEF	LHD1	9.9110e-003	0.02
tblVehicleEF	LHD1	2.0100e-004	1.6200e-004
tblVehicleEF	LHD1	9.7800e-004	9.5810e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5160e-003	2.3890e-003
tblVehicleEF	LHD1	9.4420e-003	0.01
tblVehicleEF	LHD1	1.8500e-004	1.4900e-004
tblVehicleEF	LHD1	1.3880e-003	1.52
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.02	0.26
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.16	0.13
tblVehicleEF	LHD1	0.05	0.08
tblVehicleEF	LHD1	8.4000e-005	1.1170e-003
tblVehicleEF	LHD1	6.8550e-003	6.6900e-003
tblVehicleEF	LHD1	9.4000e-005	1.4600e-004
tblVehicleEF	LHD1	1.3880e-003	1.52
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.02	0.37

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.16	0.13
tblVehicleEF	LHD1	0.05	0.09
tblVehicleEF	LHD1	4.0360e-003	0.06
tblVehicleEF	LHD1	6.4000e-003	6.3150e-003
tblVehicleEF	LHD1	9.1700e-003	0.02
tblVehicleEF	LHD1	0.17	2.53
tblVehicleEF	LHD1	0.60	0.70
tblVehicleEF	LHD1	0.80	1.82
tblVehicleEF	LHD1	8.71	114.85
tblVehicleEF	LHD1	704.28	685.89
tblVehicleEF	LHD1	9.37	14.74
tblVehicleEF	LHD1	8.4000e-004	9.1300e-003
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.06	0.67
tblVehicleEF	LHD1	0.56	0.61
tblVehicleEF	LHD1	0.21	0.33
tblVehicleEF	LHD1	1.0230e-003	0.01
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.01	9.5550e-003
tblVehicleEF	LHD1	9.9110e-003	0.01
tblVehicleEF	LHD1	2.0100e-004	1.6000e-004
tblVehicleEF	LHD1	9.7800e-004	9.5850e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5160e-003	2.3890e-003
tblVehicleEF	LHD1	9.4420e-003	0.01
tblVehicleEF	LHD1	1.8500e-004	1.4700e-004
tblVehicleEF	LHD1	2.0050e-003	1.54

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.02	0.26
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.16	0.13
tblVehicleEF	LHD1	0.05	0.08
tblVehicleEF	LHD1	8.4000e-005	1.1160e-003
tblVehicleEF	LHD1	6.8550e-003	6.6820e-003
tblVehicleEF	LHD1	9.3000e-005	1.4600e-004
tblVehicleEF	LHD1	2.0050e-003	1.54
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.02	0.37
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.16	0.13
tblVehicleEF	LHD1	0.05	0.09
tblVehicleEF	LHD1	4.0240e-003	0.08
tblVehicleEF	LHD1	6.2980e-003	0.01
tblVehicleEF	LHD1	9.7450e-003	0.02
tblVehicleEF	LHD1	0.17	2.69
tblVehicleEF	LHD1	0.59	1.01
tblVehicleEF	LHD1	0.86	1.94
tblVehicleEF	LHD1	8.71	126.03
tblVehicleEF	LHD1	704.26	785.08
tblVehicleEF	LHD1	9.48	16.18
tblVehicleEF	LHD1	8.3700e-004	9.8600e-003
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.06	0.83
tblVehicleEF	LHD1	0.58	1.03
tblVehicleEF	LHD1	0.23	0.42

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD1	1.0230e-003	0.01
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.6600e-003
tblVehicleEF	LHD1	9.9110e-003	0.02
tblVehicleEF	LHD1	2.0100e-004	2.3900e-004
tblVehicleEF	LHD1	9.7800e-004	9.9280e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5160e-003	2.4150e-003
tblVehicleEF	LHD1	9.4420e-003	0.02
tblVehicleEF	LHD1	1.8500e-004	2.2000e-004
tblVehicleEF	LHD1	1.2540e-003	1.93
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.02	0.31
tblVehicleEF	LHD1	0.09	0.12
tblVehicleEF	LHD1	0.18	0.18
tblVehicleEF	LHD1	0.05	0.11
tblVehicleEF	LHD1	8.4000e-005	1.2250e-003
tblVehicleEF	LHD1	6.8550e-003	7.6540e-003
tblVehicleEF	LHD1	9.4000e-005	1.6000e-004
tblVehicleEF	LHD1	1.2540e-003	1.93
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.02	0.44
tblVehicleEF	LHD1	0.10	0.15
tblVehicleEF	LHD1	0.18	0.18
tblVehicleEF	LHD1	0.05	0.12
tblVehicleEF	LHD2	2.7130e-003	0.04
tblVehicleEF	LHD2	5.6970e-003	5.7410e-003
tblVehicleEF	LHD2	5.6550e-003	9.6360e-003
tblVehicleEF	LHD2	0.13	1.83

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	0.53	0.47
tblVehicleEF	LHD2	0.49	1.02
tblVehicleEF	LHD2	13.49	170.75
tblVehicleEF	LHD2	705.79	741.80
tblVehicleEF	LHD2	6.73	8.39
tblVehicleEF	LHD2	1.7250e-003	0.02
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.09	1.05
tblVehicleEF	LHD2	0.58	0.72
tblVehicleEF	LHD2	0.14	0.19
tblVehicleEF	LHD2	1.4730e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.0500e-004	6.9000e-005
tblVehicleEF	LHD2	1.4090e-003	0.02
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7070e-003	2.6390e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.7000e-005	6.4000e-005
tblVehicleEF	LHD2	6.6900e-004	0.83
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.01	0.19
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	1.2900e-004	1.6370e-003
tblVehicleEF	LHD2	6.8090e-003	7.1400e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	6.7000e-005	8.3000e-005
tblVehicleEF	LHD2	6.6900e-004	0.83
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.26
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	2.7180e-003	0.04
tblVehicleEF	LHD2	5.7270e-003	5.7050e-003
tblVehicleEF	LHD2	5.4230e-003	9.5460e-003
tblVehicleEF	LHD2	0.13	1.83
tblVehicleEF	LHD2	0.53	0.47
tblVehicleEF	LHD2	0.46	1.02
tblVehicleEF	LHD2	13.49	170.68
tblVehicleEF	LHD2	705.79	741.19
tblVehicleEF	LHD2	6.69	8.36
tblVehicleEF	LHD2	1.7260e-003	0.02
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.09	1.05
tblVehicleEF	LHD2	0.56	0.71
tblVehicleEF	LHD2	0.13	0.19
tblVehicleEF	LHD2	1.4730e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.0500e-004	6.8000e-005
tblVehicleEF	LHD2	1.4090e-003	0.02
tblVehicleEF	LHD2	0.04	0.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	2.7070e-003	2.6400e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.7000e-005	6.3000e-005
tblVehicleEF	LHD2	9.6900e-004	0.84
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.01	0.19
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	1.2900e-004	1.6360e-003
tblVehicleEF	LHD2	6.8090e-003	7.1340e-003
tblVehicleEF	LHD2	6.6000e-005	8.3000e-005
tblVehicleEF	LHD2	9.6900e-004	0.84
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.26
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	2.7100e-003	0.05
tblVehicleEF	LHD2	5.6830e-003	8.1630e-003
tblVehicleEF	LHD2	5.7600e-003	0.01
tblVehicleEF	LHD2	0.13	2.01
tblVehicleEF	LHD2	0.53	0.65
tblVehicleEF	LHD2	0.50	1.17
tblVehicleEF	LHD2	13.49	185.66
tblVehicleEF	LHD2	705.79	843.22
tblVehicleEF	LHD2	6.75	9.91
tblVehicleEF	LHD2	1.7250e-003	0.02
tblVehicleEF	LHD2	0.06	0.08

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.09	1.29
tblVehicleEF	LHD2	0.58	1.11
tblVehicleEF	LHD2	0.14	0.26
tblVehicleEF	LHD2	1.4730e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.03
tblVehicleEF	LHD2	1.0500e-004	1.1000e-004
tblVehicleEF	LHD2	1.4090e-003	0.02
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7070e-003	2.6710e-003
tblVehicleEF	LHD2	0.01	0.03
tblVehicleEF	LHD2	9.7000e-005	1.0100e-004
tblVehicleEF	LHD2	5.8500e-004	1.02
tblVehicleEF	LHD2	0.03	0.02
tblVehicleEF	LHD2	0.01	0.23
tblVehicleEF	LHD2	0.10	0.14
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.03	0.07
tblVehicleEF	LHD2	1.2900e-004	1.7810e-003
tblVehicleEF	LHD2	6.8090e-003	8.1260e-003
tblVehicleEF	LHD2	6.7000e-005	9.8000e-005
tblVehicleEF	LHD2	5.8500e-004	1.02
tblVehicleEF	LHD2	0.03	0.02
tblVehicleEF	LHD2	0.02	0.32
tblVehicleEF	LHD2	0.12	0.16
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.03	0.07

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MCY	0.35	0.20
tblVehicleEF	MCY	0.24	0.16
tblVehicleEF	MCY	19.20	13.05
tblVehicleEF	MCY	8.73	7.68
tblVehicleEF	MCY	220.08	203.25
tblVehicleEF	MCY	59.15	45.52
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	7.1880e-003
tblVehicleEF	MCY	1.15	0.56
tblVehicleEF	MCY	0.27	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.2640e-003	2.4700e-003
tblVehicleEF	MCY	2.8110e-003	3.3630e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.1130e-003	2.3070e-003
tblVehicleEF	MCY	2.6350e-003	3.1550e-003
tblVehicleEF	MCY	0.95	4.15
tblVehicleEF	MCY	0.72	3.60
tblVehicleEF	MCY	2.36	1.27
tblVehicleEF	MCY	0.45	3.78
tblVehicleEF	MCY	1.82	1.21
tblVehicleEF	MCY	2.1780e-003	2.0090e-003
tblVehicleEF	MCY	5.8500e-004	4.5000e-004
tblVehicleEF	MCY	0.95	4.15
tblVehicleEF	MCY	0.72	3.60
tblVehicleEF	MCY	2.95	1.55
tblVehicleEF	MCY	0.45	3.78
tblVehicleEF	MCY	1.98	1.31
tblVehicleEF	MCY	0.34	0.19

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MCY	0.21	0.16
tblVehicleEF	MCY	18.34	13.00
tblVehicleEF	MCY	7.79	7.61
tblVehicleEF	MCY	218.49	203.17
tblVehicleEF	MCY	56.88	45.29
tblVehicleEF	MCY	0.06	0.04
tblVehicleEF	MCY	0.01	7.1420e-003
tblVehicleEF	MCY	1.03	0.56
tblVehicleEF	MCY	0.25	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.2640e-003	2.4710e-003
tblVehicleEF	MCY	2.8110e-003	3.3530e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.1130e-003	2.3090e-003
tblVehicleEF	MCY	2.6350e-003	3.1450e-003
tblVehicleEF	MCY	1.52	4.26
tblVehicleEF	MCY	0.82	3.61
tblVehicleEF	MCY	2.30	1.27
tblVehicleEF	MCY	0.41	3.77
tblVehicleEF	MCY	1.58	1.19
tblVehicleEF	MCY	2.1620e-003	2.0090e-003
tblVehicleEF	MCY	5.6300e-004	4.4800e-004
tblVehicleEF	MCY	1.52	4.26
tblVehicleEF	MCY	0.82	3.61
tblVehicleEF	MCY	2.87	1.54
tblVehicleEF	MCY	0.41	3.77
tblVehicleEF	MCY	1.72	1.30
tblVehicleEF	MCY	0.35	0.21
tblVehicleEF	MCY	0.25	0.19

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MCY	19.80	14.65
tblVehicleEF	MCY	9.20	8.20
tblVehicleEF	MCY	221.16	205.59
tblVehicleEF	MCY	60.27	50.21
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	8.5500e-003
tblVehicleEF	MCY	1.16	0.62
tblVehicleEF	MCY	0.27	0.15
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.2640e-003	2.3570e-003
tblVehicleEF	MCY	2.8110e-003	3.5430e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.1130e-003	2.2070e-003
tblVehicleEF	MCY	2.6350e-003	3.3360e-003
tblVehicleEF	MCY	0.86	4.02
tblVehicleEF	MCY	0.95	3.58
tblVehicleEF	MCY	2.39	1.44
tblVehicleEF	MCY	0.53	4.05
tblVehicleEF	MCY	1.93	1.43
tblVehicleEF	MCY	2.1890e-003	2.0320e-003
tblVehicleEF	MCY	5.9600e-004	4.9600e-004
tblVehicleEF	MCY	0.86	4.02
tblVehicleEF	MCY	0.95	3.58
tblVehicleEF	MCY	2.99	1.72
tblVehicleEF	MCY	0.53	4.05
tblVehicleEF	MCY	2.10	1.55
tblVehicleEF	MDV	2.2930e-003	3.5470e-003
tblVehicleEF	MDV	0.05	0.08
tblVehicleEF	MDV	0.58	0.81

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MDV	2.38	3.14
tblVehicleEF	MDV	350.42	413.72
tblVehicleEF	MDV	72.06	96.88
tblVehicleEF	MDV	5.8550e-003	6.9070e-003
tblVehicleEF	MDV	0.02	0.04
tblVehicleEF	MDV	0.04	0.07
tblVehicleEF	MDV	0.21	0.33
tblVehicleEF	MDV	0.04	8.8900e-003
tblVehicleEF	MDV	1.2450e-003	1.4410e-003
tblVehicleEF	MDV	1.4720e-003	1.7910e-003
tblVehicleEF	MDV	0.02	3.1120e-003
tblVehicleEF	MDV	1.1480e-003	1.3280e-003
tblVehicleEF	MDV	1.3540e-003	1.6460e-003
tblVehicleEF	MDV	0.06	1.59
tblVehicleEF	MDV	0.11	0.09
tblVehicleEF	MDV	8.9300e-003	0.01
tblVehicleEF	MDV	0.05	0.26
tblVehicleEF	MDV	0.23	0.38
tblVehicleEF	MDV	3.2860e-003	4.0870e-003
tblVehicleEF	MDV	6.7600e-004	9.5800e-004
tblVehicleEF	MDV	0.06	1.59
tblVehicleEF	MDV	0.11	0.09
tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.05	0.26
tblVehicleEF	MDV	0.25	0.41
tblVehicleEF	MDV	2.4900e-003	3.5160e-003
tblVehicleEF	MDV	0.04	0.08
tblVehicleEF	MDV	0.65	0.82
tblVehicleEF	MDV	1.96	3.06

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MDV	362.76	414.37
tblVehicleEF	MDV	71.27	96.57
tblVehicleEF	MDV	5.5780e-003	6.7840e-003
tblVehicleEF	MDV	0.02	0.04
tblVehicleEF	MDV	0.04	0.07
tblVehicleEF	MDV	0.19	0.33
tblVehicleEF	MDV	0.04	8.8890e-003
tblVehicleEF	MDV	1.2450e-003	1.4340e-003
tblVehicleEF	MDV	1.4720e-003	1.7810e-003
tblVehicleEF	MDV	0.02	3.1110e-003
tblVehicleEF	MDV	1.1480e-003	1.3220e-003
tblVehicleEF	MDV	1.3540e-003	1.6380e-003
tblVehicleEF	MDV	0.09	1.61
tblVehicleEF	MDV	0.12	0.09
tblVehicleEF	MDV	9.5770e-003	0.01
tblVehicleEF	MDV	0.05	0.26
tblVehicleEF	MDV	0.20	0.37
tblVehicleEF	MDV	3.4020e-003	4.0940e-003
tblVehicleEF	MDV	6.6800e-004	9.5500e-004
tblVehicleEF	MDV	0.09	1.61
tblVehicleEF	MDV	0.12	0.09
tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.05	0.26
tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MDV	2.2450e-003	5.3930e-003
tblVehicleEF	MDV	0.05	0.11
tblVehicleEF	MDV	0.57	1.06
tblVehicleEF	MDV	2.55	4.42
tblVehicleEF	MDV	348.19	455.28

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MDV	72.39	108.53
tblVehicleEF	MDV	5.8870e-003	9.7720e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.04	0.12
tblVehicleEF	MDV	0.21	0.48
tblVehicleEF	MDV	0.04	8.9880e-003
tblVehicleEF	MDV	1.2450e-003	1.8920e-003
tblVehicleEF	MDV	1.4720e-003	2.2530e-003
tblVehicleEF	MDV	0.02	3.1460e-003
tblVehicleEF	MDV	1.1480e-003	1.7460e-003
tblVehicleEF	MDV	1.3540e-003	2.0720e-003
tblVehicleEF	MDV	0.05	1.79
tblVehicleEF	MDV	0.12	0.11
tblVehicleEF	MDV	8.7880e-003	0.02
tblVehicleEF	MDV	0.06	0.30
tblVehicleEF	MDV	0.24	0.57
tblVehicleEF	MDV	3.2660e-003	4.4980e-003
tblVehicleEF	MDV	6.7900e-004	1.0730e-003
tblVehicleEF	MDV	0.05	1.79
tblVehicleEF	MDV	0.12	0.11
tblVehicleEF	MDV	0.01	0.03
tblVehicleEF	MDV	0.06	0.30
tblVehicleEF	MDV	0.27	0.63
tblVehicleEF	MH	7.7820e-003	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.66	0.94
tblVehicleEF	MH	1.73	2.11
tblVehicleEF	MH	1,447.81	1,670.37
tblVehicleEF	MH	16.60	21.04

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.41	1.58
tblVehicleEF	MH	0.25	0.31
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.1000e-004	2.5800e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.3020e-003	3.3220e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.9300e-004	2.3800e-004
tblVehicleEF	MH	0.53	2.95
tblVehicleEF	MH	0.05	7.37
tblVehicleEF	MH	0.06	0.08
tblVehicleEF	MH	0.01	0.17
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.6400e-004	2.0800e-004
tblVehicleEF	MH	0.53	2.95
tblVehicleEF	MH	0.05	7.37
tblVehicleEF	MH	0.07	0.10
tblVehicleEF	MH	0.01	0.17
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MH	7.9360e-003	9.9380e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.68	0.91
tblVehicleEF	MH	1.62	2.08
tblVehicleEF	MH	1,447.84	1,669.46

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MH	16.42	20.96
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.35	1.57
tblVehicleEF	MH	0.23	0.31
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.1000e-004	2.5500e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.3020e-003	3.3230e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.9300e-004	2.3500e-004
tblVehicleEF	MH	0.73	3.00
tblVehicleEF	MH	0.05	7.35
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.01	0.17
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.6200e-004	2.0700e-004
tblVehicleEF	MH	0.73	3.00
tblVehicleEF	MH	0.05	7.35
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	0.01	0.17
tblVehicleEF	MH	0.08	0.11
tblVehicleEF	MH	7.7150e-003	0.01
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.65	1.61
tblVehicleEF	MH	1.78	2.57

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MH	1,447.80	1,699.67
tblVehicleEF	MH	16.69	22.98
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.41	1.69
tblVehicleEF	MH	0.25	0.30
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	2.1000e-004	3.1900e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.3020e-003	3.2890e-003
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	1.9300e-004	2.9400e-004
tblVehicleEF	MH	0.52	3.41
tblVehicleEF	MH	0.06	9.37
tblVehicleEF	MH	0.06	0.10
tblVehicleEF	MH	0.01	0.22
tblVehicleEF	MH	0.08	0.12
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.6500e-004	2.2700e-004
tblVehicleEF	MH	0.52	3.41
tblVehicleEF	MH	0.06	9.37
tblVehicleEF	MH	0.07	0.13
tblVehicleEF	MH	0.01	0.22
tblVehicleEF	MH	0.09	0.13
tblVehicleEF	MHD	3.9100e-003	0.25
tblVehicleEF	MHD	1.2980e-003	0.01
tblVehicleEF	MHD	8.9060e-003	9.5600e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	0.41	8.81
tblVehicleEF	MHD	0.18	0.30
tblVehicleEF	MHD	0.94	1.07
tblVehicleEF	MHD	71.56	1,724.30
tblVehicleEF	MHD	1,019.18	1,131.79
tblVehicleEF	MHD	9.08	9.53
tblVehicleEF	MHD	0.01	0.26
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	7.8970e-003	6.7900e-003
tblVehicleEF	MHD	0.40	8.99
tblVehicleEF	MHD	1.37	0.76
tblVehicleEF	MHD	1.68	1.17
tblVehicleEF	MHD	2.3000e-004	0.01
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	6.6690e-003	7.1540e-003
tblVehicleEF	MHD	1.1200e-004	1.1500e-004
tblVehicleEF	MHD	2.2000e-004	0.01
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.3730e-003	6.8340e-003
tblVehicleEF	MHD	1.0300e-004	1.0500e-004
tblVehicleEF	MHD	3.1000e-004	0.55
tblVehicleEF	MHD	0.02	6.3890e-003
tblVehicleEF	MHD	0.02	0.37
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	6.7900e-004	0.02
tblVehicleEF	MHD	9.7340e-003	0.01
tblVehicleEF	MHD	9.0000e-005	9.4000e-005

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	3.1000e-004	0.55
tblVehicleEF	MHD	0.02	6.3890e-003
tblVehicleEF	MHD	0.03	0.68
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	3.7220e-003	0.25
tblVehicleEF	MHD	1.3230e-003	0.01
tblVehicleEF	MHD	8.5250e-003	9.4740e-003
tblVehicleEF	MHD	0.35	8.74
tblVehicleEF	MHD	0.18	0.29
tblVehicleEF	MHD	0.88	1.06
tblVehicleEF	MHD	71.39	1,721.96
tblVehicleEF	MHD	1,019.18	1,131.13
tblVehicleEF	MHD	8.98	9.48
tblVehicleEF	MHD	0.01	0.26
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	7.6630e-003	6.7670e-003
tblVehicleEF	MHD	0.39	8.89
tblVehicleEF	MHD	1.32	0.73
tblVehicleEF	MHD	1.67	1.18
tblVehicleEF	MHD	1.9700e-004	0.01
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	6.6690e-003	6.9530e-003
tblVehicleEF	MHD	1.1200e-004	1.1300e-004
tblVehicleEF	MHD	1.8900e-004	0.01
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.3730e-003	6.6410e-003
tblVehicleEF	MHD	1.0300e-004	1.0400e-004

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	4.5500e-004	0.55
tblVehicleEF	MHD	0.02	6.3370e-003
tblVehicleEF	MHD	0.02	0.37
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	6.7800e-004	0.02
tblVehicleEF	MHD	9.7340e-003	0.01
tblVehicleEF	MHD	8.9000e-005	9.4000e-005
tblVehicleEF	MHD	4.5500e-004	0.55
tblVehicleEF	MHD	0.02	6.3370e-003
tblVehicleEF	MHD	0.03	0.68
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	4.1820e-003	0.28
tblVehicleEF	MHD	1.2860e-003	0.02
tblVehicleEF	MHD	9.0550e-003	0.01
tblVehicleEF	MHD	0.49	11.28
tblVehicleEF	MHD	0.18	0.56
tblVehicleEF	MHD	0.96	1.58
tblVehicleEF	MHD	71.79	1,887.62
tblVehicleEF	MHD	1,019.18	1,285.82
tblVehicleEF	MHD	9.12	12.26
tblVehicleEF	MHD	0.01	0.28
tblVehicleEF	MHD	0.13	0.15
tblVehicleEF	MHD	8.0420e-003	8.5840e-003
tblVehicleEF	MHD	0.42	10.83
tblVehicleEF	MHD	1.36	1.19

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	1.68	1.30
tblVehicleEF	MHD	2.7500e-004	0.03
tblVehicleEF	MHD	0.13	0.05
tblVehicleEF	MHD	6.6690e-003	0.01
tblVehicleEF	MHD	1.1200e-004	1.5600e-004
tblVehicleEF	MHD	2.6300e-004	0.03
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.3730e-003	0.01
tblVehicleEF	MHD	1.0300e-004	1.4300e-004
tblVehicleEF	MHD	2.7300e-004	0.83
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.46
tblVehicleEF	MHD	0.01	0.05
tblVehicleEF	MHD	0.02	0.07
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	6.8100e-004	0.02
tblVehicleEF	MHD	9.7340e-003	0.01
tblVehicleEF	MHD	9.0000e-005	1.2100e-004
tblVehicleEF	MHD	2.7300e-004	0.83
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.03	0.82
tblVehicleEF	MHD	0.02	0.07
tblVehicleEF	MHD	0.02	0.07
tblVehicleEF	MHD	0.05	0.08
tblVehicleEF	OBUS	8.7760e-003	0.26
tblVehicleEF	OBUS	5.1760e-003	0.05
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.66	9.17
tblVehicleEF	OBUS	0.57	1.04

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	2.33	2.76
tblVehicleEF	OBUS	92.68	1,193.58
tblVehicleEF	OBUS	1,393.34	1,469.43
tblVehicleEF	OBUS	18.53	20.95
tblVehicleEF	OBUS	0.01	0.15
tblVehicleEF	OBUS	0.10	0.12
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.38	3.95
tblVehicleEF	OBUS	1.17	1.01
tblVehicleEF	OBUS	0.81	0.69
tblVehicleEF	OBUS	1.3200e-004	4.6030e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.9060e-003	0.02
tblVehicleEF	OBUS	2.3200e-004	2.3600e-004
tblVehicleEF	OBUS	1.2600e-004	4.3990e-003
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.5400e-003	0.02
tblVehicleEF	OBUS	2.1400e-004	2.1700e-004
tblVehicleEF	OBUS	1.7300e-003	2.46
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.83
tblVehicleEF	OBUS	0.03	0.07
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	8.8200e-004	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.8300e-004	2.0700e-004
tblVehicleEF	OBUS	1.7300e-003	2.46
tblVehicleEF	OBUS	0.03	0.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	0.07	1.22
tblVehicleEF	OBUS	0.04	0.13
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	0.12	0.14
tblVehicleEF	OBUS	8.8760e-003	0.26
tblVehicleEF	OBUS	5.3030e-003	0.05
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.66	9.20
tblVehicleEF	OBUS	0.58	1.03
tblVehicleEF	OBUS	2.18	2.74
tblVehicleEF	OBUS	91.62	1,193.76
tblVehicleEF	OBUS	1,393.36	1,468.06
tblVehicleEF	OBUS	18.28	20.88
tblVehicleEF	OBUS	0.01	0.15
tblVehicleEF	OBUS	0.10	0.12
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.37	3.91
tblVehicleEF	OBUS	1.11	0.99
tblVehicleEF	OBUS	0.80	0.69
tblVehicleEF	OBUS	1.1700e-004	4.5380e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.9060e-003	0.02
tblVehicleEF	OBUS	2.3200e-004	2.3500e-004
tblVehicleEF	OBUS	1.1200e-004	4.3370e-003
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.5400e-003	0.02
tblVehicleEF	OBUS	2.1400e-004	2.1600e-004
tblVehicleEF	OBUS	2.4310e-003	2.51
tblVehicleEF	OBUS	0.03	0.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	0.06	0.83
tblVehicleEF	OBUS	0.03	0.07
tblVehicleEF	OBUS	0.08	0.10
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	8.7100e-004	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.8100e-004	2.0600e-004
tblVehicleEF	OBUS	2.4310e-003	2.51
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.08	1.22
tblVehicleEF	OBUS	0.04	0.13
tblVehicleEF	OBUS	0.08	0.10
tblVehicleEF	OBUS	0.12	0.14
tblVehicleEF	OBUS	8.6570e-003	0.26
tblVehicleEF	OBUS	5.1200e-003	0.05
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.67	8.66
tblVehicleEF	OBUS	0.56	1.54
tblVehicleEF	OBUS	2.39	3.36
tblVehicleEF	OBUS	94.15	1,099.60
tblVehicleEF	OBUS	1,393.33	1,620.27
tblVehicleEF	OBUS	18.65	24.35
tblVehicleEF	OBUS	0.01	0.13
tblVehicleEF	OBUS	0.10	0.13
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.41	3.99
tblVehicleEF	OBUS	1.16	1.19
tblVehicleEF	OBUS	0.82	0.69
tblVehicleEF	OBUS	1.5200e-004	6.0400e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.9060e-003	0.02
tblVehicleEF	OBUS	2.3200e-004	2.7700e-004
tblVehicleEF	OBUS	1.4600e-004	5.7740e-003
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.5400e-003	0.02
tblVehicleEF	OBUS	2.1400e-004	2.5500e-004
tblVehicleEF	OBUS	1.6450e-003	2.53
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.80
tblVehicleEF	OBUS	0.03	0.09
tblVehicleEF	OBUS	0.09	0.11
tblVehicleEF	OBUS	0.11	0.16
tblVehicleEF	OBUS	8.9500e-004	0.01
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	1.8500e-004	2.4100e-004
tblVehicleEF	OBUS	1.6450e-003	2.53
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.07	1.20
tblVehicleEF	OBUS	0.04	0.17
tblVehicleEF	OBUS	0.09	0.11
tblVehicleEF	OBUS	0.12	0.17
tblVehicleEF	SBUS	0.04	0.24
tblVehicleEF	SBUS	5.8180e-003	0.03
tblVehicleEF	SBUS	3.2730e-003	2.9830e-003
tblVehicleEF	SBUS	1.80	7.19
tblVehicleEF	SBUS	0.44	0.81
tblVehicleEF	SBUS	0.46	0.40
tblVehicleEF	SBUS	325.60	2,099.51

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	1,014.66	960.38
tblVehicleEF	SBUS	2.63	2.07
tblVehicleEF	SBUS	0.05	0.32
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	2.8690e-003	2.0080e-003
tblVehicleEF	SBUS	3.36	21.13
tblVehicleEF	SBUS	5.26	3.27
tblVehicleEF	SBUS	0.94	0.42
tblVehicleEF	SBUS	3.4630e-003	0.02
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	4.4000e-005	2.6000e-005
tblVehicleEF	SBUS	3.3130e-003	0.02
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.7690e-003	2.7230e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	4.1000e-005	2.4000e-005
tblVehicleEF	SBUS	2.6800e-004	0.10
tblVehicleEF	SBUS	2.8790e-003	5.9700e-003
tblVehicleEF	SBUS	0.19	0.53
tblVehicleEF	SBUS	0.09	0.07
tblVehicleEF	SBUS	5.2140e-003	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	3.0920e-003	0.02
tblVehicleEF	SBUS	9.6660e-003	9.0850e-003
tblVehicleEF	SBUS	2.6000e-005	2.0000e-005
tblVehicleEF	SBUS	2.6800e-004	0.10
tblVehicleEF	SBUS	2.8790e-003	5.9700e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	0.26	0.86
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	5.2140e-003	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.04	0.24
tblVehicleEF	SBUS	5.8780e-003	0.03
tblVehicleEF	SBUS	2.8480e-003	2.9490e-003
tblVehicleEF	SBUS	1.76	7.18
tblVehicleEF	SBUS	0.45	0.81
tblVehicleEF	SBUS	0.36	0.39
tblVehicleEF	SBUS	333.94	2,104.57
tblVehicleEF	SBUS	1,014.67	959.76
tblVehicleEF	SBUS	2.47	2.05
tblVehicleEF	SBUS	0.05	0.32
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	2.7530e-003	2.0090e-003
tblVehicleEF	SBUS	3.43	21.12
tblVehicleEF	SBUS	5.07	3.23
tblVehicleEF	SBUS	0.94	0.42
tblVehicleEF	SBUS	2.9270e-003	0.02
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	4.4000e-005	2.6000e-005
tblVehicleEF	SBUS	2.8010e-003	0.02
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.7690e-003	2.7230e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	4.1000e-005	2.4000e-005

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	3.8200e-004	0.11
tblVehicleEF	SBUS	2.9390e-003	5.9570e-003
tblVehicleEF	SBUS	0.18	0.53
tblVehicleEF	SBUS	0.09	0.07
tblVehicleEF	SBUS	4.5590e-003	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	3.1710e-003	0.02
tblVehicleEF	SBUS	9.6660e-003	9.0790e-003
tblVehicleEF	SBUS	2.4000e-005	2.0000e-005
tblVehicleEF	SBUS	3.8200e-004	0.11
tblVehicleEF	SBUS	2.9390e-003	5.9570e-003
tblVehicleEF	SBUS	0.26	0.86
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	4.5590e-003	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.04	0.20
tblVehicleEF	SBUS	5.7900e-003	0.03
tblVehicleEF	SBUS	3.4830e-003	3.5710e-003
tblVehicleEF	SBUS	1.85	6.71
tblVehicleEF	SBUS	0.44	1.34
tblVehicleEF	SBUS	0.50	0.57
tblVehicleEF	SBUS	314.08	2,191.16
tblVehicleEF	SBUS	1,014.65	1,071.53
tblVehicleEF	SBUS	2.72	2.33
tblVehicleEF	SBUS	0.05	0.34
tblVehicleEF	SBUS	0.14	0.15
tblVehicleEF	SBUS	2.9450e-003	1.8230e-003
tblVehicleEF	SBUS	3.27	26.46
tblVehicleEF	SBUS	5.24	5.32

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	0.94	0.35
tblVehicleEF	SBUS	4.2020e-003	0.04
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.4000e-005	2.8000e-005
tblVehicleEF	SBUS	4.0200e-003	0.04
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.7690e-003	2.7500e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	4.1000e-005	2.6000e-005
tblVehicleEF	SBUS	2.4600e-004	0.13
tblVehicleEF	SBUS	2.9910e-003	8.5790e-003
tblVehicleEF	SBUS	0.19	0.52
tblVehicleEF	SBUS	0.09	0.11
tblVehicleEF	SBUS	6.6480e-003	0.20
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.9830e-003	0.02
tblVehicleEF	SBUS	9.6660e-003	0.01
tblVehicleEF	SBUS	2.7000e-005	2.3000e-005
tblVehicleEF	SBUS	2.4600e-004	0.13
tblVehicleEF	SBUS	2.9910e-003	8.5790e-003
tblVehicleEF	SBUS	0.26	0.82
tblVehicleEF	SBUS	0.11	0.16
tblVehicleEF	SBUS	6.6480e-003	0.20
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	UBUS	4.89	2.27
tblVehicleEF	UBUS	0.02	5.3340e-003
tblVehicleEF	UBUS	38.17	29.02

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	UBUS	1.20	0.76
tblVehicleEF	UBUS	1,887.51	1,072.80
tblVehicleEF	UBUS	13.52	5.22
tblVehicleEF	UBUS	0.31	0.20
tblVehicleEF	UBUS	0.01	7.7200e-003
tblVehicleEF	UBUS	0.41	0.16
tblVehicleEF	UBUS	0.13	0.05
tblVehicleEF	UBUS	0.07	0.10
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1070e-003	3.0700e-004
tblVehicleEF	UBUS	1.7900e-004	2.6000e-005
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9510e-003	2.8900e-004
tblVehicleEF	UBUS	1.6400e-004	2.4000e-005
tblVehicleEF	UBUS	6.7700e-004	0.06
tblVehicleEF	UBUS	8.8370e-003	4.5170e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	1.6190e-003	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	3.6080e-003	9.5100e-004
tblVehicleEF	UBUS	1.3400e-004	5.2000e-005
tblVehicleEF	UBUS	6.7700e-004	0.06
tblVehicleEF	UBUS	8.8370e-003	4.5170e-003
tblVehicleEF	UBUS	5.00	2.32
tblVehicleEF	UBUS	1.6190e-003	0.01
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	4.89	2.29
tblVehicleEF	UBUS	0.01	5.2980e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	UBUS	38.17	29.21
tblVehicleEF	UBUS	1.04	0.75
tblVehicleEF	UBUS	1,887.51	1,072.31
tblVehicleEF	UBUS	13.24	5.21
tblVehicleEF	UBUS	0.31	0.20
tblVehicleEF	UBUS	0.01	7.7000e-003
tblVehicleEF	UBUS	0.41	0.15
tblVehicleEF	UBUS	0.13	0.05
tblVehicleEF	UBUS	0.07	0.10
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1070e-003	3.0800e-004
tblVehicleEF	UBUS	1.7900e-004	2.6000e-005
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9510e-003	2.9000e-004
tblVehicleEF	UBUS	1.6400e-004	2.4000e-005
tblVehicleEF	UBUS	9.4400e-004	0.06
tblVehicleEF	UBUS	9.3670e-003	4.5490e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	1.4660e-003	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	3.6080e-003	9.5100e-004
tblVehicleEF	UBUS	1.3100e-004	5.2000e-005
tblVehicleEF	UBUS	9.4400e-004	0.06
tblVehicleEF	UBUS	9.3670e-003	4.5490e-003
tblVehicleEF	UBUS	5.00	2.34
tblVehicleEF	UBUS	1.4660e-003	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	4.89	2.14

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	UBUS	0.02	8.1080e-003
tblVehicleEF	UBUS	38.17	30.34
tblVehicleEF	UBUS	1.28	0.80
tblVehicleEF	UBUS	1,887.51	1,438.99
tblVehicleEF	UBUS	13.65	5.83
tblVehicleEF	UBUS	0.31	0.27
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.41	0.32
tblVehicleEF	UBUS	0.14	0.08
tblVehicleEF	UBUS	0.07	0.11
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1070e-003	2.9200e-004
tblVehicleEF	UBUS	1.7900e-004	2.1000e-005
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9510e-003	2.7500e-004
tblVehicleEF	UBUS	1.6400e-004	1.9000e-005
tblVehicleEF	UBUS	6.0600e-004	0.09
tblVehicleEF	UBUS	9.8070e-003	8.2650e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	1.9860e-003	0.01
tblVehicleEF	UBUS	0.06	0.03
tblVehicleEF	UBUS	3.6080e-003	1.0580e-003
tblVehicleEF	UBUS	1.3500e-004	5.8000e-005
tblVehicleEF	UBUS	6.0600e-004	0.09
tblVehicleEF	UBUS	9.8070e-003	8.2650e-003
tblVehicleEF	UBUS	5.00	2.19
tblVehicleEF	UBUS	1.9860e-003	0.01
tblVehicleEF	UBUS	0.07	0.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0876	0.6636	0.7816	2.4000e-003	3.3800e-003	0.0253	0.0286	9.1000e-004	0.0243	0.0252	0.0000	206.5021	206.5021	0.0410	6.0000e-004	207.7053
2025	0.5081	3.7484	4.7780	0.0148	0.0208	0.1354	0.1562	5.5900e-003	0.1300	0.1355	0.0000	1,274.1882	1,274.1882	0.2512	3.6300e-003	1,281.5511
2026	0.5092	3.7577	4.7892	0.0148	0.0209	0.1357	0.1566	5.6100e-003	0.1303	0.1359	0.0000	1,276.9887	1,276.9887	0.2519	3.5600e-003	1,284.3474
2027	0.5090	3.7567	4.7876	0.0148	0.0209	0.1357	0.1566	5.6100e-003	0.1303	0.1359	0.0000	1,276.2837	1,276.2837	0.2519	3.4700e-003	1,283.6170
Maximum	**0.5092**	**3.7577**	**4.7892**	**0.0148**	**0.0209**	**0.1357**	**0.1566**	**5.6100e-003**	**0.1303**	**0.1359**	**0.0000**	**1,276.9887**	**1,276.9887**	**0.2519**	**3.6300e-003**	**1,284.3474**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0328	0.2228	1.0849	2.4000e-003	3.3800e-003	4.8900e-003	8.2600e-003	9.1000e-004	4.8100e-003	5.7100e-003	0.0000	206.5019	206.5019	0.0410	6.0000e-004	207.7050
2025	0.1992	1.3521	6.6897	0.0148	0.0208	0.0288	0.0497	5.5900e-003	0.0284	0.0340	0.0000	1,274.1867	1,274.1867	0.2512	3.6300e-003	1,281.5496
2026	0.1995	1.3548	6.7062	0.0148	0.0209	0.0289	0.0498	5.6100e-003	0.0284	0.0340	0.0000	1,276.9873	1,276.9873	0.2519	3.5600e-003	1,284.3459
2027	0.1993	1.3538	6.7046	0.0148	0.0209	0.0289	0.0498	5.6100e-003	0.0284	0.0340	0.0000	1,276.2822	1,276.2822	0.2519	3.4700e-003	1,283.6155
Maximum	**0.1995**	**1.3548**	**6.7062**	**0.0148**	**0.0209**	**0.0289**	**0.0498**	**5.6100e-003**	**0.0284**	**0.0340**	**0.0000**	**1,276.9873**	**1,276.9873**	**0.2519**	**3.6300e-003**	**1,284.3459**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**60.92**	**64.08**	**-39.96**	**0.00**	**0.00**	**78.83**	**68.38**	**0.00**	**78.30**	**75.09**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-2-2024**	**4-1-2024**	0.7512	0.2557
5	**1-2-2025**	**4-1-2025**	1.0526	0.3837
6	**4-2-2025**	**7-1-2025**	1.0636	0.3873
7	**7-2-2025**	**10-1-2025**	1.0753	0.3916
8	**10-2-2025**	**1-1-2026**	1.0759	0.3922
9	**1-2-2026**	**4-1-2026**	1.0522	0.3834
10	**4-2-2026**	**7-1-2026**	1.0633	0.3870
11	**7-2-2026**	**10-1-2026**	1.0750	0.3913

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

12	**10-2-2026**	**1-1-2027**	1.0756	0.3919
13	**1-2-2027**	**4-1-2027**	1.0520	0.3831
14	**4-2-2027**	**7-1-2027**	1.0630	0.3867
15	**7-2-2027**	**9-30-2027**	1.0630	0.3867
		Highest	1.0759	0.3922

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2730	0.0000	4.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.6000e-004	9.6000e-004	0.0000	0.0000	1.0300e-003
Energy	3.3500e-003	0.0304	0.0256	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003	0.0000	141.1256	141.1256	7.2300e-003	1.4100e-003	141.7259
Mobile	0.2681	0.1566	1.1408	2.6300e-003	0.2400	1.9400e-003	0.2420	0.0598	1.8100e-003	0.0616	0.0000	243.6652	243.6652	0.0133	0.0110	247.2843
Waste						0.0000	0.0000		0.0000	0.0000	13.5679	0.0000	13.5679	0.8018	0.0000	33.6139
Water						0.0000	0.0000		0.0000	0.0000	3.9544	39.7519	43.7063	0.4086	9.8800e-003	56.8664
Total	**0.5445**	**0.1871**	**1.1669**	**2.8100e-003**	**0.2400**	**4.2500e-003**	**0.2443**	**0.0598**	**4.1200e-003**	**0.0640**	**17.5223**	**424.5436**	**442.0659**	**1.2309**	**0.0223**	**479.4916**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2730	0.0000	4.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.6000e-004	9.6000e-004	0.0000	0.0000	1.0300e-003
Energy	3.3500e-003	0.0304	0.0256	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003	0.0000	141.1256	141.1256	7.2300e-003	1.4100e-003	141.7259
Mobile	0.2681	0.1566	1.1408	2.6300e-003	0.2400	1.9400e-003	0.2420	0.0598	1.8100e-003	0.0616	0.0000	243.6652	243.6652	0.0133	0.0110	247.2843
Waste						0.0000	0.0000		0.0000	0.0000	13.5679	0.0000	13.5679	0.8018	0.0000	33.6139
Water						0.0000	0.0000		0.0000	0.0000	3.9544	39.7519	43.7063	0.4086	9.8800e-003	56.8664
Total	**0.5445**	**0.1871**	**1.1669**	**2.8100e-003**	**0.2400**	**4.2500e-003**	**0.2443**	**0.0598**	**4.1200e-003**	**0.0640**	**17.5223**	**424.5436**	**442.0659**	**1.2309**	**0.0223**	**479.4916**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Phase 3: Quay Repair Berths 2-5	Building Construction	1/2/2024	2/29/2024	7	59	
2	Phase 4: Additional repairs	Building Construction	1/2/2025	12/31/2027	7	1094	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase 3: Quay Repair Berths 2-5	Air Compressors	1	8.00	78	0.48
Phase 3: Quay Repair Berths 2-5	Bore/Drill Rigs	1	4.00	595	0.50
Phase 3: Quay Repair Berths 2-5	Bore/Drill Rigs	1	4.00	595	0.50
Phase 3: Quay Repair Berths 2-5	Cranes	1	8.00	282	0.29
Phase 3: Quay Repair Berths 2-5	Crushing/Proc. Equipment	1	8.00	10	0.78
Phase 3: Quay Repair Berths 2-5	Excavators	1	4.00	242	0.38
Phase 3: Quay Repair Berths 2-5	Forklifts	1	6.00	89	0.20
Phase 3: Quay Repair Berths 2-5	Generator Sets	1	8.00	84	0.74
Phase 3: Quay Repair Berths 2-5	Off-Highway Trucks	1	2.00	385	0.38
Phase 3: Quay Repair Berths 2-5	Other Construction Equipment	1	4.00	595	0.50
Phase 3: Quay Repair Berths 2-5	Pumps	1	8.00	225	0.74
Phase 3: Quay Repair Berths 2-5	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Phase 3: Quay Repair Berths 2-5	Welders	3	8.00	46	0.45
Phase 4: Additional repairs	Air Compressors	1	8.00	78	0.48
Phase 4: Additional repairs	Bore/Drill Rigs	1	4.00	595	0.50
Phase 4: Additional repairs	Bore/Drill Rigs	1	4.00	595	0.50
Phase 4: Additional repairs	Cranes	1	8.00	282	0.29
Phase 4: Additional repairs	Crushing/Proc. Equipment	1	8.00	10	0.78
Phase 4: Additional repairs	Excavators	1	4.00	242	0.38
Phase 4: Additional repairs	Forklifts	1	6.00	89	0.20

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase 4: Additional repairs	Generator Sets	1	8.00	84	0.74
Phase 4: Additional repairs	Off-Highway Trucks	1	2.00	385	0.38
Phase 4: Additional repairs	Other Construction Equipment	1	4.00	595	0.50
Phase 4: Additional repairs	Pumps	1	8.00	225	0.74
Phase 4: Additional repairs	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Phase 4: Additional repairs	Welders	3	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase 3: Quay Repair Berths 2-5	15	10.00	0.00	118.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4: Additional repairs	15	10.00	0.00	2,188.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Phase 3: Quay Repair Berths 2-5 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0867	0.6551	0.7731	2.3500e-003		0.0252	0.0252		0.0242	0.0242	0.0000	201.1757	201.1757	0.0407	0.0000	202.1935
Total	**0.0867**	**0.6551**	**0.7731**	**2.3500e-003**		**0.0252**	**0.0252**		**0.0242**	**0.0242**	**0.0000**	**201.1757**	**201.1757**	**0.0407**	**0.0000**	**202.1935**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Phase 3: Quay Repair Berths 2-5 - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3000e-004	7.9400e-003	2.1600e-003	3.0000e-005	1.0100e-003	7.0000e-005	1.0800e-003	2.8000e-004	6.0000e-005	3.4000e-004	0.0000	3.4786	3.4786	1.8000e-004	5.5000e-004	3.6481
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	5.0000e-004	6.3100e-003	2.0000e-005	2.3700e-003	1.0000e-005	2.3800e-003	6.3000e-004	1.0000e-005	6.4000e-004	0.0000	1.8479	1.8479	5.0000e-005	5.0000e-005	1.8637
Total	**8.8000e-004**	**8.4400e-003**	**8.4700e-003**	**5.0000e-005**	**3.3800e-003**	**8.0000e-005**	**3.4600e-003**	**9.1000e-004**	**7.0000e-005**	**9.8000e-004**	**0.0000**	**5.3264**	**5.3264**	**2.3000e-004**	**6.0000e-004**	**5.5118**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0319	0.2144	1.0764	2.3500e-003		4.8100e-003	4.8100e-003		4.7300e-003	4.7300e-003	0.0000	201.1755	201.1755	0.0407	0.0000	202.1932
Total	**0.0319**	**0.2144**	**1.0764**	**2.3500e-003**		**4.8100e-003**	**4.8100e-003**		**4.7300e-003**	**4.7300e-003**	**0.0000**	**201.1755**	**201.1755**	**0.0407**	**0.0000**	**202.1932**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Phase 3: Quay Repair Berths 2-5 - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3000e-004	7.9400e-003	2.1600e-003	3.0000e-005	1.0100e-003	7.0000e-005	1.0800e-003	2.8000e-004	6.0000e-005	3.4000e-004	0.0000	3.4786	3.4786	1.8000e-004	5.5000e-004	3.6481
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	5.0000e-004	6.3100e-003	2.0000e-005	2.3700e-003	1.0000e-005	2.3800e-003	6.3000e-004	1.0000e-005	6.4000e-004	0.0000	1.8479	1.8479	5.0000e-005	5.0000e-005	1.8637
Total	**8.8000e-004**	**8.4400e-003**	**8.4700e-003**	**5.0000e-005**	**3.3800e-003**	**8.0000e-005**	**3.4600e-003**	**9.1000e-004**	**7.0000e-005**	**9.8000e-004**	**0.0000**	**5.3264**	**5.3264**	**2.3000e-004**	**6.0000e-004**	**5.5118**

3.3 Phase 4: Additional repairs - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.5029	3.6973	4.7279	0.0145		0.1349	0.1349		0.1295	0.1295	0.0000	1,242.0404	1,242.0404	0.2498	0.0000	1,248.2847
Total	**0.5029**	**3.6973**	**4.7279**	**0.0145**		**0.1349**	**0.1349**		**0.1295**	**0.1295**	**0.0000**	**1,242.0404**	**1,242.0404**	**0.2498**	**0.0000**	**1,248.2847**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Phase 4: Additional repairs - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.8000e-004	0.0483	0.0135	2.1000e-004	6.2300e-003	4.1000e-004	6.6400e-003	1.7100e-003	3.9000e-004	2.1000e-003	0.0000	21.0258	21.0258	1.1700e-003	3.3500e-003	22.0530
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3600e-003	2.7800e-003	0.0366	1.2000e-004	0.0146	7.0000e-005	0.0147	3.8800e-003	7.0000e-005	3.9500e-003	0.0000	11.1221	11.1221	2.8000e-004	2.8000e-004	11.2134
Total	**5.1400e-003**	**0.0511**	**0.0501**	**3.3000e-004**	**0.0208**	**4.8000e-004**	**0.0213**	**5.5900e-003**	**4.6000e-004**	**6.0500e-003**	**0.0000**	**32.1479**	**32.1479**	**1.4500e-003**	**3.6300e-003**	**33.2664**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1941	1.3010	6.6396	0.0145		0.0283	0.0283		0.0279	0.0279	0.0000	1,242.0389	1,242.0389	0.2498	0.0000	1,248.2832
Total	**0.1941**	**1.3010**	**6.6396**	**0.0145**		**0.0283**	**0.0283**		**0.0279**	**0.0279**	**0.0000**	**1,242.0389**	**1,242.0389**	**0.2498**	**0.0000**	**1,248.2832**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Phase 4: Additional repairs - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.8000e-004	0.0483	0.0135	2.1000e-004	6.2300e-003	4.1000e-004	6.6400e-003	1.7100e-003	3.9000e-004	2.1000e-003	0.0000	21.0258	21.0258	1.1700e-003	3.3500e-003	22.0530
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3600e-003	2.7800e-003	0.0366	1.2000e-004	0.0146	7.0000e-005	0.0147	3.8800e-003	7.0000e-005	3.9500e-003	0.0000	11.1221	11.1221	2.8000e-004	2.8000e-004	11.2134
Total	**5.1400e-003**	**0.0511**	**0.0501**	**3.3000e-004**	**0.0208**	**4.8000e-004**	**0.0213**	**5.5900e-003**	**4.6000e-004**	**6.0500e-003**	**0.0000**	**32.1479**	**32.1479**	**1.4500e-003**	**3.6300e-003**	**33.2664**

3.3 Phase 4: Additional repairs - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.5043	3.7074	4.7409	0.0145		0.1352	0.1352		0.1299	0.1299	0.0000	1,245.4526	1,245.4526	0.2505	0.0000	1,251.7141
Total	**0.5043**	**3.7074**	**4.7409**	**0.0145**		**0.1352**	**0.1352**		**0.1299**	**0.1299**	**0.0000**	**1,245.4526**	**1,245.4526**	**0.2505**	**0.0000**	**1,251.7141**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Phase 4: Additional repairs - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.8000e-004	0.0477	0.0137	2.0000e-004	6.2500e-003	4.0000e-004	6.6500e-003	1.7200e-003	3.9000e-004	2.1000e-003	0.0000	20.6435	20.6435	1.2100e-003	3.2900e-003	21.6543
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1400e-003	2.5400e-003	0.0346	1.1000e-004	0.0146	7.0000e-005	0.0147	3.8900e-003	6.0000e-005	3.9500e-003	0.0000	10.8927	10.8927	2.6000e-004	2.7000e-004	10.9790
Total	**4.9200e-003**	**0.0502**	**0.0484**	**3.1000e-004**	**0.0209**	**4.7000e-004**	**0.0214**	**5.6100e-003**	**4.5000e-004**	**6.0500e-003**	**0.0000**	**31.5362**	**31.5362**	**1.4700e-003**	**3.5600e-003**	**32.6333**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1946	1.3045	6.6578	0.0145		0.0284	0.0284		0.0280	0.0280	0.0000	1,245.4511	1,245.4511	0.2505	0.0000	1,251.7126
Total	**0.1946**	**1.3045**	**6.6578**	**0.0145**		**0.0284**	**0.0284**		**0.0280**	**0.0280**	**0.0000**	**1,245.4511**	**1,245.4511**	**0.2505**	**0.0000**	**1,251.7126**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Phase 4: Additional repairs - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.8000e-004	0.0477	0.0137	2.0000e-004	6.2500e-003	4.0000e-004	6.6500e-003	1.7200e-003	3.9000e-004	2.1000e-003	0.0000	20.6435	20.6435	1.2100e-003	3.2900e-003	21.6543
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1400e-003	2.5400e-003	0.0346	1.1000e-004	0.0146	7.0000e-005	0.0147	3.8900e-003	6.0000e-005	3.9500e-003	0.0000	10.8927	10.8927	2.6000e-004	2.7000e-004	10.9790
Total	**4.9200e-003**	**0.0502**	**0.0484**	**3.1000e-004**	**0.0209**	**4.7000e-004**	**0.0214**	**5.6100e-003**	**4.5000e-004**	**6.0500e-003**	**0.0000**	**31.5362**	**31.5362**	**1.4700e-003**	**3.5600e-003**	**32.6333**

3.3 Phase 4: Additional repairs - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.5043	3.7074	4.7409	0.0145		0.1352	0.1352		0.1299	0.1299	0.0000	1,245.4526	1,245.4526	0.2505	0.0000	1,251.7141
Total	**0.5043**	**3.7074**	**4.7409**	**0.0145**		**0.1352**	**0.1352**		**0.1299**	**0.1299**	**0.0000**	**1,245.4526**	**1,245.4526**	**0.2505**	**0.0000**	**1,251.7141**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Phase 4: Additional repairs - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.7000e-004	0.0470	0.0139	2.0000e-004	6.2500e-003	4.0000e-004	6.6500e-003	1.7200e-003	3.8000e-004	2.1000e-003	0.0000	20.1738	20.1738	1.2400e-003	3.2200e-003	21.1637
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9200e-003	2.3300e-003	0.0329	1.1000e-004	0.0146	7.0000e-005	0.0147	3.8900e-003	6.0000e-005	3.9500e-003	0.0000	10.6573	10.6573	2.4000e-004	2.5000e-004	10.7392
Total	**4.6900e-003**	**0.0493**	**0.0467**	**3.1000e-004**	**0.0209**	**4.7000e-004**	**0.0214**	**5.6100e-003**	**4.4000e-004**	**6.0500e-003**	**0.0000**	**30.8311**	**30.8311**	**1.4800e-003**	**3.4700e-003**	**31.9029**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1946	1.3045	6.6578	0.0145		0.0284	0.0284		0.0280	0.0280	0.0000	1,245.4511	1,245.4511	0.2505	0.0000	1,251.7126
Total	**0.1946**	**1.3045**	**6.6578**	**0.0145**		**0.0284**	**0.0284**		**0.0280**	**0.0280**	**0.0000**	**1,245.4511**	**1,245.4511**	**0.2505**	**0.0000**	**1,251.7126**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Phase 4: Additional repairs - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.7000e-004	0.0470	0.0139	2.0000e-004	6.2500e-003	4.0000e-004	6.6500e-003	1.7200e-003	3.8000e-004	2.1000e-003	0.0000	20.1738	20.1738	1.2400e-003	3.2200e-003	21.1637
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9200e-003	2.3300e-003	0.0329	1.1000e-004	0.0146	7.0000e-005	0.0147	3.8900e-003	6.0000e-005	3.9500e-003	0.0000	10.6573	10.6573	2.4000e-004	2.5000e-004	10.7392
Total	**4.6900e-003**	**0.0493**	**0.0467**	**3.1000e-004**	**0.0209**	**4.7000e-004**	**0.0214**	**5.6100e-003**	**4.4000e-004**	**6.0500e-003**	**0.0000**	**30.8311**	**30.8311**	**1.4800e-003**	**3.4700e-003**	**31.9029**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2681	0.1566	1.1408	2.6300e-003	0.2400	1.9400e-003	0.2420	0.0598	1.8100e-003	0.0616	0.0000	243.6652	243.6652	0.0133	0.0110	247.2843
Unmitigated	0.2681	0.1566	1.1408	2.6300e-003	0.2400	1.9400e-003	0.2420	0.0598	1.8100e-003	0.0616	0.0000	243.6652	243.6652	0.0133	0.0110	247.2843

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	211.83	346.04	274.35	700,484	700,484
Total	211.83	346.04	274.35	700,484	700,484

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.571163	0.061971	0.173016	0.114025	0.023169	0.006440	0.009521	0.006303	0.000689	0.000605	0.027981	0.000899	0.004218

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	107.9905	107.9905	6.6000e-003	8.0000e-004	108.3939
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	107.9905	107.9905	6.6000e-003	8.0000e-004	108.3939
NaturalGas Mitigated	3.3500e-003	0.0304	0.0256	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003	0.0000	33.1351	33.1351	6.4000e-004	6.1000e-004	33.3320
NaturalGas Unmitigated	3.3500e-003	0.0304	0.0256	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003	0.0000	33.1351	33.1351	6.4000e-004	6.1000e-004	33.3320

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Heavy Industry	620928	3.3500e-003	0.0304	0.0256	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003	0.0000	33.1351	33.1351	6.4000e-004	6.1000e-004	33.3320
Total		**3.3500e-003**	**0.0304**	**0.0256**	**1.8000e-004**		**2.3100e-003**	**2.3100e-003**		**2.3100e-003**	**2.3100e-003**	**0.0000**	**33.1351**	**33.1351**	**6.4000e-004**	**6.1000e-004**	**33.3320**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Heavy Industry	620928	3.3500e-003	0.0304	0.0256	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003	0.0000	33.1351	33.1351	6.4000e-004	6.1000e-004	33.3320
Total		**3.3500e-003**	**0.0304**	**0.0256**	**1.8000e-004**		**2.3100e-003**	**2.3100e-003**		**2.3100e-003**	**2.3100e-003**	**0.0000**	**33.1351**	**33.1351**	**6.4000e-004**	**6.1000e-004**	**33.3320**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	440902	107.9905	6.6000e-003	8.0000e-004	108.3939
Total		**107.9905**	**6.6000e-003**	**8.0000e-004**	**108.3939**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	440902	107.9905	6.6000e-003	8.0000e-004	108.3939
Total		**107.9905**	**6.6000e-003**	**8.0000e-004**	**108.3939**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2730	0.0000	4.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.6000e-004	9.6000e-004	0.0000	0.0000	1.0300e-003
Unmitigated	0.2730	0.0000	4.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.6000e-004	9.6000e-004	0.0000	0.0000	1.0300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0625					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2105					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	4.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.6000e-004	9.6000e-004	0.0000	0.0000	1.0300e-003
Total	**0.2730**	**0.0000**	**4.9000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**9.6000e-004**	**9.6000e-004**	**0.0000**	**0.0000**	**1.0300e-003**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0625					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2105					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	4.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.6000e-004	9.6000e-004	0.0000	0.0000	1.0300e-003
Total	**0.2730**	**0.0000**	**4.9000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**9.6000e-004**	**9.6000e-004**	**0.0000**	**0.0000**	**1.0300e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	43.7063	0.4086	9.8800e-003	56.8664
Unmitigated	43.7063	0.4086	9.8800e-003	56.8664

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	12.4644 / 0	43.7063	0.4086	9.8800e-003	56.8664
Total		**43.7063**	**0.4086**	**9.8800e-003**	**56.8664**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	12.4644 / 0	43.7063	0.4086	9.8800e-003	56.8664
Total		**43.7063**	**0.4086**	**9.8800e-003**	**56.8664**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	13.5679	0.8018	0.0000	33.6139
Unmitigated	13.5679	0.8018	0.0000	33.6139

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	66.84	13.5679	0.8018	0.0000	33.6139
Total		**13.5679**	**0.8018**	**0.0000**	**33.6139**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	66.84	13.5679	0.8018	0.0000	33.6139
Total		**13.5679**	**0.8018**	**0.0000**	**33.6139**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

NASSCO - Phases 3 & 4

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	53.90	1000sqft	1.24	53,900.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2028
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Repairs to the quay wall toe of slope and failed revetment along Quay Wall throughout the NASSCO shipyard, 53,900 sq ft.

Construction Phase - Client provided information. Phase 3 (Jan 2, 2024 - Feb 29, 2024) and Phase 4 (Jan 2025 - Dec 2027): Repairs to the quay wall toe of slope and failed revetment along Quay Wall throughout the NASSCO shipyard.

Off-road Equipment - Client supplied equipment list

Off-road Equipment - client provided equipment list

Off-road Equipment - client provided equipment list

Trips and VMT - 2 haul truck trips per day per client. Most materials will be transported via water access.

Vehicle Trips -

Vehicle Emission Factors - EMFAC 2021 Emission Factors

Vehicle Emission Factors - EMFAC 2021 Emission Factors

Vehicle Emission Factors - EMFAC 2021 Emission Factors

NASSCO - Phases 3 & 4 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Area Coating -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Mitigation: At least 90% Tier 4 engines.

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

NASSCO - Phases 3 & 4 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	200.00	59.00
tblConstructionPhase	NumDays	200.00	1,094.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	231.00	282.00
tblOffRoadEquipment	HorsePower	85.00	10.00
tblOffRoadEquipment	HorsePower	158.00	242.00
tblOffRoadEquipment	HorsePower	402.00	385.00
tblOffRoadEquipment	HorsePower	172.00	595.00
tblOffRoadEquipment	HorsePower	84.00	225.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	231.00	282.00
tblOffRoadEquipment	HorsePower	85.00	10.00
tblOffRoadEquipment	HorsePower	158.00	242.00
tblOffRoadEquipment	HorsePower	402.00	385.00
tblOffRoadEquipment	HorsePower	172.00	595.00
tblOffRoadEquipment	HorsePower	84.00	225.00
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	118.00
tblTripsAndVMT	HaulingTripNumber	0.00	2,188.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblTripsAndVMT	VendorTripNumber	9.00	0.00
tblTripsAndVMT	VendorTripNumber	9.00	0.00
tblTripsAndVMT	WorkerTripNumber	23.00	10.00
tblTripsAndVMT	WorkerTripNumber	23.00	10.00
tblVehicleEF	HHD	0.03	0.71
tblVehicleEF	HHD	0.09	0.06
tblVehicleEF	HHD	6.61	76.55
tblVehicleEF	HHD	0.54	0.50
tblVehicleEF	HHD	8.0490e-003	2.5080e-003
tblVehicleEF	HHD	1,014.58	11,481.16
tblVehicleEF	HHD	1,293.14	1,449.81
tblVehicleEF	HHD	0.07	0.02
tblVehicleEF	HHD	0.16	1.82
tblVehicleEF	HHD	0.21	0.23
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	5.53	63.27
tblVehicleEF	HHD	2.47	1.66
tblVehicleEF	HHD	2.37	2.66
tblVehicleEF	HHD	2.5260e-003	0.03
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	2.4170e-003	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8720e-003	8.8370e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.0000e-006	3.0070e-003
tblVehicleEF	HHD	1.0800e-004	4.2000e-005
tblVehicleEF	HHD	0.44	5.14

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	4.6000e-005	1.5500e-004
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	9.3450e-003	0.11
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	2.0000e-006	3.0070e-003
tblVehicleEF	HHD	1.0800e-004	4.2000e-005
tblVehicleEF	HHD	0.51	6.33
tblVehicleEF	HHD	0.11	0.08
tblVehicleEF	HHD	4.6000e-005	1.5500e-004
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.74
tblVehicleEF	HHD	0.09	0.06
tblVehicleEF	HHD	6.52	76.53
tblVehicleEF	HHD	0.54	0.52
tblVehicleEF	HHD	7.5650e-003	2.2820e-003
tblVehicleEF	HHD	1,002.69	11,332.25
tblVehicleEF	HHD	1,293.14	1,433.35
tblVehicleEF	HHD	0.07	0.02
tblVehicleEF	HHD	0.16	1.80
tblVehicleEF	HHD	0.21	0.23
tblVehicleEF	HHD	5.28	62.43
tblVehicleEF	HHD	2.38	1.59
tblVehicleEF	HHD	2.37	2.67
tblVehicleEF	HHD	2.2170e-003	0.03
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	2.1210e-003	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8720e-003	8.8380e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	3.0000e-006	2.5580e-003
tblVehicleEF	HHD	1.1100e-004	3.4000e-005
tblVehicleEF	HHD	0.47	5.14
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	4.4000e-005	1.3900e-004
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	9.2350e-003	0.10
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	3.0000e-006	2.5580e-003
tblVehicleEF	HHD	1.1100e-004	3.4000e-005
tblVehicleEF	HHD	0.54	6.36
tblVehicleEF	HHD	0.11	0.08
tblVehicleEF	HHD	4.4000e-005	1.3900e-004
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.80
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	6.73	80.34
tblVehicleEF	HHD	0.54	0.57
tblVehicleEF	HHD	8.2630e-003	5.0770e-003
tblVehicleEF	HHD	1,031.01	13,127.44
tblVehicleEF	HHD	1,293.13	1,652.70
tblVehicleEF	HHD	0.08	0.05

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	HHD	0.16	2.08
tblVehicleEF	HHD	0.21	0.26
tblVehicleEF	HHD	1.0000e-006	8.0000e-006
tblVehicleEF	HHD	5.88	70.64
tblVehicleEF	HHD	2.46	2.06
tblVehicleEF	HHD	2.37	2.75
tblVehicleEF	HHD	2.9540e-003	0.04
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	2.8260e-003	0.04
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8720e-003	8.8310e-003
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	2.0000e-006	8.0720e-003
tblVehicleEF	HHD	1.1700e-004	1.1600e-004
tblVehicleEF	HHD	0.41	4.92
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	5.0000e-005	3.1900e-004
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	HHD	9.4970e-003	0.12
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	2.0000e-006	8.0720e-003
tblVehicleEF	HHD	1.1700e-004	1.1600e-004
tblVehicleEF	HHD	0.47	6.17
tblVehicleEF	HHD	0.11	0.11
tblVehicleEF	HHD	5.0000e-005	3.1900e-004

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	LDA	1.2050e-003	1.9870e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.42	0.57
tblVehicleEF	LDA	1.73	2.34
tblVehicleEF	LDA	228.87	252.96
tblVehicleEF	LDA	46.63	60.27
tblVehicleEF	LDA	3.3570e-003	3.7030e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.13	0.20
tblVehicleEF	LDA	0.04	7.0230e-003
tblVehicleEF	LDA	1.1630e-003	1.2570e-003
tblVehicleEF	LDA	1.4530e-003	1.6670e-003
tblVehicleEF	LDA	0.02	2.4580e-003
tblVehicleEF	LDA	1.0700e-003	1.1560e-003
tblVehicleEF	LDA	1.3360e-003	1.5330e-003
tblVehicleEF	LDA	0.03	1.20
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	4.1310e-003	7.1680e-003
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.13	0.23
tblVehicleEF	LDA	2.1460e-003	2.5010e-003
tblVehicleEF	LDA	4.3700e-004	5.9600e-004
tblVehicleEF	LDA	0.03	1.20
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	5.9960e-003	0.01
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.15	0.25

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDA	1.3140e-003	1.9740e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.47	0.58
tblVehicleEF	LDA	1.43	2.29
tblVehicleEF	LDA	241.53	253.65
tblVehicleEF	LDA	46.08	60.06
tblVehicleEF	LDA	3.1640e-003	3.6470e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.12	0.20
tblVehicleEF	LDA	0.04	7.0210e-003
tblVehicleEF	LDA	1.1630e-003	1.2510e-003
tblVehicleEF	LDA	1.4530e-003	1.6610e-003
tblVehicleEF	LDA	0.02	2.4570e-003
tblVehicleEF	LDA	1.0700e-003	1.1520e-003
tblVehicleEF	LDA	1.3360e-003	1.5270e-003
tblVehicleEF	LDA	0.04	1.22
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	4.4440e-003	7.0860e-003
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.12	0.23
tblVehicleEF	LDA	2.2650e-003	2.5070e-003
tblVehicleEF	LDA	4.3200e-004	5.9400e-004
tblVehicleEF	LDA	0.04	1.22
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	6.4530e-003	0.01
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.13	0.25
tblVehicleEF	LDA	1.1790e-003	2.8490e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDA	0.03	0.07
tblVehicleEF	LDA	0.41	0.70
tblVehicleEF	LDA	1.86	3.25
tblVehicleEF	LDA	226.58	281.69
tblVehicleEF	LDA	46.86	68.09
tblVehicleEF	LDA	3.3780e-003	4.6970e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	0.14	0.25
tblVehicleEF	LDA	0.04	7.1270e-003
tblVehicleEF	LDA	1.1630e-003	1.6660e-003
tblVehicleEF	LDA	1.4530e-003	2.0740e-003
tblVehicleEF	LDA	0.02	2.4940e-003
tblVehicleEF	LDA	1.0700e-003	1.5340e-003
tblVehicleEF	LDA	1.3360e-003	1.9070e-003
tblVehicleEF	LDA	0.02	1.35
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	4.0620e-003	0.01
tblVehicleEF	LDA	0.03	0.22
tblVehicleEF	LDA	0.14	0.33
tblVehicleEF	LDA	2.1250e-003	2.7840e-003
tblVehicleEF	LDA	4.3900e-004	6.7300e-004
tblVehicleEF	LDA	0.02	1.35
tblVehicleEF	LDA	0.07	0.09
tblVehicleEF	LDA	5.8950e-003	0.02
tblVehicleEF	LDA	0.03	0.22
tblVehicleEF	LDA	0.15	0.36
tblVehicleEF	LDT1	3.1400e-003	7.4770e-003
tblVehicleEF	LDT1	0.05	0.10

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT1	0.72	1.41
tblVehicleEF	LDT1	1.94	4.84
tblVehicleEF	LDT1	283.24	340.26
tblVehicleEF	LDT1	58.55	83.40
tblVehicleEF	LDT1	5.1360e-003	9.3350e-003
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.06	0.12
tblVehicleEF	LDT1	0.19	0.37
tblVehicleEF	LDT1	0.04	9.2390e-003
tblVehicleEF	LDT1	1.4830e-003	2.1880e-003
tblVehicleEF	LDT1	1.8340e-003	2.7210e-003
tblVehicleEF	LDT1	0.02	3.2340e-003
tblVehicleEF	LDT1	1.3640e-003	2.0130e-003
tblVehicleEF	LDT1	1.6860e-003	2.5020e-003
tblVehicleEF	LDT1	0.07	3.05
tblVehicleEF	LDT1	0.15	0.18
tblVehicleEF	LDT1	0.01	0.03
tblVehicleEF	LDT1	0.07	0.53
tblVehicleEF	LDT1	0.23	0.51
tblVehicleEF	LDT1	2.6560e-003	3.3640e-003
tblVehicleEF	LDT1	5.4900e-004	8.2400e-004
tblVehicleEF	LDT1	0.07	3.05
tblVehicleEF	LDT1	0.15	0.18
tblVehicleEF	LDT1	0.02	0.05
tblVehicleEF	LDT1	0.07	0.53
tblVehicleEF	LDT1	0.25	0.56
tblVehicleEF	LDT1	3.3950e-003	7.4210e-003
tblVehicleEF	LDT1	0.04	0.10
tblVehicleEF	LDT1	0.81	1.43

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT1	1.60	4.70
tblVehicleEF	LDT1	296.67	341.45
tblVehicleEF	LDT1	57.89	83.03
tblVehicleEF	LDT1	4.7940e-003	9.1450e-003
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.05	0.12
tblVehicleEF	LDT1	0.17	0.37
tblVehicleEF	LDT1	0.04	9.2400e-003
tblVehicleEF	LDT1	1.4830e-003	2.1720e-003
tblVehicleEF	LDT1	1.8340e-003	2.7020e-003
tblVehicleEF	LDT1	0.02	3.2340e-003
tblVehicleEF	LDT1	1.3640e-003	1.9980e-003
tblVehicleEF	LDT1	1.6860e-003	2.4850e-003
tblVehicleEF	LDT1	0.11	3.10
tblVehicleEF	LDT1	0.16	0.18
tblVehicleEF	LDT1	0.01	0.03
tblVehicleEF	LDT1	0.07	0.53
tblVehicleEF	LDT1	0.20	0.50
tblVehicleEF	LDT1	2.7820e-003	3.3760e-003
tblVehicleEF	LDT1	5.4300e-004	8.2100e-004
tblVehicleEF	LDT1	0.11	3.10
tblVehicleEF	LDT1	0.16	0.18
tblVehicleEF	LDT1	0.02	0.05
tblVehicleEF	LDT1	0.07	0.53
tblVehicleEF	LDT1	0.22	0.54
tblVehicleEF	LDT1	3.0790e-003	0.01
tblVehicleEF	LDT1	0.05	0.13
tblVehicleEF	LDT1	0.71	1.84
tblVehicleEF	LDT1	2.08	6.81

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT1	280.81	362.43
tblVehicleEF	LDT1	58.82	91.86
tblVehicleEF	LDT1	5.1780e-003	0.01
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.06	0.19
tblVehicleEF	LDT1	0.20	0.48
tblVehicleEF	LDT1	0.04	9.2870e-003
tblVehicleEF	LDT1	1.4830e-003	2.8810e-003
tblVehicleEF	LDT1	1.8340e-003	3.4250e-003
tblVehicleEF	LDT1	0.02	3.2500e-003
tblVehicleEF	LDT1	1.3640e-003	2.6510e-003
tblVehicleEF	LDT1	1.6860e-003	3.1490e-003
tblVehicleEF	LDT1	0.06	3.43
tblVehicleEF	LDT1	0.17	0.21
tblVehicleEF	LDT1	0.01	0.05
tblVehicleEF	LDT1	0.09	0.66
tblVehicleEF	LDT1	0.24	0.71
tblVehicleEF	LDT1	2.6330e-003	3.5830e-003
tblVehicleEF	LDT1	5.5200e-004	9.0800e-004
tblVehicleEF	LDT1	0.06	3.43
tblVehicleEF	LDT1	0.17	0.21
tblVehicleEF	LDT1	0.02	0.07
tblVehicleEF	LDT1	0.09	0.66
tblVehicleEF	LDT1	0.26	0.77
tblVehicleEF	LDT2	2.2610e-003	2.9450e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.59	0.75
tblVehicleEF	LDT2	2.28	2.95
tblVehicleEF	LDT2	290.11	343.90

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT2	60.09	80.72
tblVehicleEF	LDT2	4.5370e-003	5.3400e-003
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.19	0.28
tblVehicleEF	LDT2	0.04	8.7990e-003
tblVehicleEF	LDT2	1.2510e-003	1.4140e-003
tblVehicleEF	LDT2	1.4850e-003	1.7750e-003
tblVehicleEF	LDT2	0.02	3.0800e-003
tblVehicleEF	LDT2	1.1520e-003	1.3010e-003
tblVehicleEF	LDT2	1.3650e-003	1.6320e-003
tblVehicleEF	LDT2	0.05	1.32
tblVehicleEF	LDT2	0.10	0.07
tblVehicleEF	LDT2	8.6700e-003	0.01
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.21	0.30
tblVehicleEF	LDT2	2.7200e-003	3.3990e-003
tblVehicleEF	LDT2	5.6300e-004	7.9800e-004
tblVehicleEF	LDT2	0.05	1.32
tblVehicleEF	LDT2	0.10	0.07
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.23	0.33
tblVehicleEF	LDT2	2.4540e-003	2.9320e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.66	0.76
tblVehicleEF	LDT2	1.88	2.88
tblVehicleEF	LDT2	302.56	344.65
tblVehicleEF	LDT2	59.34	80.46

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT2	4.2620e-003	5.2550e-003
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.17	0.27
tblVehicleEF	LDT2	0.04	8.7980e-003
tblVehicleEF	LDT2	1.2510e-003	1.4100e-003
tblVehicleEF	LDT2	1.4850e-003	1.7710e-003
tblVehicleEF	LDT2	0.02	3.0790e-003
tblVehicleEF	LDT2	1.1520e-003	1.2970e-003
tblVehicleEF	LDT2	1.3650e-003	1.6280e-003
tblVehicleEF	LDT2	0.08	1.34
tblVehicleEF	LDT2	0.11	0.07
tblVehicleEF	LDT2	9.3070e-003	0.01
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.18	0.30
tblVehicleEF	LDT2	2.8370e-003	3.4070e-003
tblVehicleEF	LDT2	5.5600e-004	7.9500e-004
tblVehicleEF	LDT2	0.08	1.34
tblVehicleEF	LDT2	0.11	0.07
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.05	0.21
tblVehicleEF	LDT2	0.20	0.32
tblVehicleEF	LDT2	2.2140e-003	4.0080e-003
tblVehicleEF	LDT2	0.05	0.09
tblVehicleEF	LDT2	0.58	0.90
tblVehicleEF	LDT2	2.45	4.00
tblVehicleEF	LDT2	287.86	375.58
tblVehicleEF	LDT2	60.40	90.06
tblVehicleEF	LDT2	4.5690e-003	6.9200e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.04	0.08
tblVehicleEF	LDT2	0.19	0.37
tblVehicleEF	LDT2	0.04	8.8250e-003
tblVehicleEF	LDT2	1.2510e-003	1.7680e-003
tblVehicleEF	LDT2	1.4850e-003	2.1270e-003
tblVehicleEF	LDT2	0.02	3.0890e-003
tblVehicleEF	LDT2	1.1520e-003	1.6270e-003
tblVehicleEF	LDT2	1.3650e-003	1.9560e-003
tblVehicleEF	LDT2	0.04	1.45
tblVehicleEF	LDT2	0.11	0.09
tblVehicleEF	LDT2	8.5290e-003	0.02
tblVehicleEF	LDT2	0.06	0.24
tblVehicleEF	LDT2	0.22	0.42
tblVehicleEF	LDT2	2.6990e-003	3.7120e-003
tblVehicleEF	LDT2	5.6600e-004	8.9000e-004
tblVehicleEF	LDT2	0.04	1.45
tblVehicleEF	LDT2	0.11	0.09
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.24
tblVehicleEF	LDT2	0.24	0.46
tblVehicleEF	LHD1	4.0280e-003	0.06
tblVehicleEF	LHD1	6.3290e-003	6.3690e-003
tblVehicleEF	LHD1	9.5670e-003	0.02
tblVehicleEF	LHD1	0.17	2.53
tblVehicleEF	LHD1	0.59	0.70
tblVehicleEF	LHD1	0.84	1.82
tblVehicleEF	LHD1	8.71	114.95
tblVehicleEF	LHD1	704.27	686.69

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD1	9.45	14.76
tblVehicleEF	LHD1	8.3800e-004	9.1300e-003
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.06	0.68
tblVehicleEF	LHD1	0.58	0.62
tblVehicleEF	LHD1	0.22	0.33
tblVehicleEF	LHD1	1.0230e-003	0.01
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.01	9.5540e-003
tblVehicleEF	LHD1	9.9110e-003	0.02
tblVehicleEF	LHD1	2.0100e-004	1.6200e-004
tblVehicleEF	LHD1	9.7800e-004	9.5810e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5160e-003	2.3890e-003
tblVehicleEF	LHD1	9.4420e-003	0.01
tblVehicleEF	LHD1	1.8500e-004	1.4900e-004
tblVehicleEF	LHD1	1.3880e-003	1.52
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.02	0.26
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.16	0.13
tblVehicleEF	LHD1	0.05	0.08
tblVehicleEF	LHD1	8.4000e-005	1.1170e-003
tblVehicleEF	LHD1	6.8550e-003	6.6900e-003
tblVehicleEF	LHD1	9.4000e-005	1.4600e-004
tblVehicleEF	LHD1	1.3880e-003	1.52
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.02	0.37

NASSCO - Phases 3 & 4 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.16	0.13
tblVehicleEF	LHD1	0.05	0.09
tblVehicleEF	LHD1	4.0360e-003	0.06
tblVehicleEF	LHD1	6.4000e-003	6.3150e-003
tblVehicleEF	LHD1	9.1700e-003	0.02
tblVehicleEF	LHD1	0.17	2.53
tblVehicleEF	LHD1	0.60	0.70
tblVehicleEF	LHD1	0.80	1.82
tblVehicleEF	LHD1	8.71	114.85
tblVehicleEF	LHD1	704.28	685.89
tblVehicleEF	LHD1	9.37	14.74
tblVehicleEF	LHD1	8.4000e-004	9.1300e-003
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.06	0.67
tblVehicleEF	LHD1	0.56	0.61
tblVehicleEF	LHD1	0.21	0.33
tblVehicleEF	LHD1	1.0230e-003	0.01
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.01	9.5550e-003
tblVehicleEF	LHD1	9.9110e-003	0.01
tblVehicleEF	LHD1	2.0100e-004	1.6000e-004
tblVehicleEF	LHD1	9.7800e-004	9.5850e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5160e-003	2.3890e-003
tblVehicleEF	LHD1	9.4420e-003	0.01
tblVehicleEF	LHD1	1.8500e-004	1.4700e-004
tblVehicleEF	LHD1	2.0050e-003	1.54

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.02	0.26
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	0.16	0.13
tblVehicleEF	LHD1	0.05	0.08
tblVehicleEF	LHD1	8.4000e-005	1.1160e-003
tblVehicleEF	LHD1	6.8550e-003	6.6820e-003
tblVehicleEF	LHD1	9.3000e-005	1.4600e-004
tblVehicleEF	LHD1	2.0050e-003	1.54
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	0.02	0.37
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.16	0.13
tblVehicleEF	LHD1	0.05	0.09
tblVehicleEF	LHD1	4.0240e-003	0.08
tblVehicleEF	LHD1	6.2980e-003	0.01
tblVehicleEF	LHD1	9.7450e-003	0.02
tblVehicleEF	LHD1	0.17	2.69
tblVehicleEF	LHD1	0.59	1.01
tblVehicleEF	LHD1	0.86	1.94
tblVehicleEF	LHD1	8.71	126.03
tblVehicleEF	LHD1	704.26	785.08
tblVehicleEF	LHD1	9.48	16.18
tblVehicleEF	LHD1	8.3700e-004	9.8600e-003
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.06	0.83
tblVehicleEF	LHD1	0.58	1.03
tblVehicleEF	LHD1	0.23	0.42

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD1	1.0230e-003	0.01
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.6600e-003
tblVehicleEF	LHD1	9.9110e-003	0.02
tblVehicleEF	LHD1	2.0100e-004	2.3900e-004
tblVehicleEF	LHD1	9.7800e-004	9.9280e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5160e-003	2.4150e-003
tblVehicleEF	LHD1	9.4420e-003	0.02
tblVehicleEF	LHD1	1.8500e-004	2.2000e-004
tblVehicleEF	LHD1	1.2540e-003	1.93
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.02	0.31
tblVehicleEF	LHD1	0.09	0.12
tblVehicleEF	LHD1	0.18	0.18
tblVehicleEF	LHD1	0.05	0.11
tblVehicleEF	LHD1	8.4000e-005	1.2250e-003
tblVehicleEF	LHD1	6.8550e-003	7.6540e-003
tblVehicleEF	LHD1	9.4000e-005	1.6000e-004
tblVehicleEF	LHD1	1.2540e-003	1.93
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.02	0.44
tblVehicleEF	LHD1	0.10	0.15
tblVehicleEF	LHD1	0.18	0.18
tblVehicleEF	LHD1	0.05	0.12
tblVehicleEF	LHD2	2.7130e-003	0.04
tblVehicleEF	LHD2	5.6970e-003	5.7410e-003
tblVehicleEF	LHD2	5.6550e-003	9.6360e-003
tblVehicleEF	LHD2	0.13	1.83

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	0.53	0.47
tblVehicleEF	LHD2	0.49	1.02
tblVehicleEF	LHD2	13.49	170.75
tblVehicleEF	LHD2	705.79	741.80
tblVehicleEF	LHD2	6.73	8.39
tblVehicleEF	LHD2	1.7250e-003	0.02
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.09	1.05
tblVehicleEF	LHD2	0.58	0.72
tblVehicleEF	LHD2	0.14	0.19
tblVehicleEF	LHD2	1.4730e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.0500e-004	6.9000e-005
tblVehicleEF	LHD2	1.4090e-003	0.02
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7070e-003	2.6390e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.7000e-005	6.4000e-005
tblVehicleEF	LHD2	6.6900e-004	0.83
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.01	0.19
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	1.2900e-004	1.6370e-003
tblVehicleEF	LHD2	6.8090e-003	7.1400e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	6.7000e-005	8.3000e-005
tblVehicleEF	LHD2	6.6900e-004	0.83
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.26
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	2.7180e-003	0.04
tblVehicleEF	LHD2	5.7270e-003	5.7050e-003
tblVehicleEF	LHD2	5.4230e-003	9.5460e-003
tblVehicleEF	LHD2	0.13	1.83
tblVehicleEF	LHD2	0.53	0.47
tblVehicleEF	LHD2	0.46	1.02
tblVehicleEF	LHD2	13.49	170.68
tblVehicleEF	LHD2	705.79	741.19
tblVehicleEF	LHD2	6.69	8.36
tblVehicleEF	LHD2	1.7260e-003	0.02
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.09	1.05
tblVehicleEF	LHD2	0.56	0.71
tblVehicleEF	LHD2	0.13	0.19
tblVehicleEF	LHD2	1.4730e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.0500e-004	6.8000e-005
tblVehicleEF	LHD2	1.4090e-003	0.02
tblVehicleEF	LHD2	0.04	0.03

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	2.7070e-003	2.6400e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.7000e-005	6.3000e-005
tblVehicleEF	LHD2	9.6900e-004	0.84
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.01	0.19
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	1.2900e-004	1.6360e-003
tblVehicleEF	LHD2	6.8090e-003	7.1340e-003
tblVehicleEF	LHD2	6.6000e-005	8.3000e-005
tblVehicleEF	LHD2	9.6900e-004	0.84
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.26
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	2.7100e-003	0.05
tblVehicleEF	LHD2	5.6830e-003	8.1630e-003
tblVehicleEF	LHD2	5.7600e-003	0.01
tblVehicleEF	LHD2	0.13	2.01
tblVehicleEF	LHD2	0.53	0.65
tblVehicleEF	LHD2	0.50	1.17
tblVehicleEF	LHD2	13.49	185.66
tblVehicleEF	LHD2	705.79	843.22
tblVehicleEF	LHD2	6.75	9.91
tblVehicleEF	LHD2	1.7250e-003	0.02
tblVehicleEF	LHD2	0.06	0.08

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.09	1.29
tblVehicleEF	LHD2	0.58	1.11
tblVehicleEF	LHD2	0.14	0.26
tblVehicleEF	LHD2	1.4730e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.03
tblVehicleEF	LHD2	1.0500e-004	1.1000e-004
tblVehicleEF	LHD2	1.4090e-003	0.02
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7070e-003	2.6710e-003
tblVehicleEF	LHD2	0.01	0.03
tblVehicleEF	LHD2	9.7000e-005	1.0100e-004
tblVehicleEF	LHD2	5.8500e-004	1.02
tblVehicleEF	LHD2	0.03	0.02
tblVehicleEF	LHD2	0.01	0.23
tblVehicleEF	LHD2	0.10	0.14
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.03	0.07
tblVehicleEF	LHD2	1.2900e-004	1.7810e-003
tblVehicleEF	LHD2	6.8090e-003	8.1260e-003
tblVehicleEF	LHD2	6.7000e-005	9.8000e-005
tblVehicleEF	LHD2	5.8500e-004	1.02
tblVehicleEF	LHD2	0.03	0.02
tblVehicleEF	LHD2	0.02	0.32
tblVehicleEF	LHD2	0.12	0.16
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.03	0.07

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MCY	0.35	0.20
tblVehicleEF	MCY	0.24	0.16
tblVehicleEF	MCY	19.20	13.05
tblVehicleEF	MCY	8.73	7.68
tblVehicleEF	MCY	220.08	203.25
tblVehicleEF	MCY	59.15	45.52
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	7.1880e-003
tblVehicleEF	MCY	1.15	0.56
tblVehicleEF	MCY	0.27	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.2640e-003	2.4700e-003
tblVehicleEF	MCY	2.8110e-003	3.3630e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.1130e-003	2.3070e-003
tblVehicleEF	MCY	2.6350e-003	3.1550e-003
tblVehicleEF	MCY	0.95	4.15
tblVehicleEF	MCY	0.72	3.60
tblVehicleEF	MCY	2.36	1.27
tblVehicleEF	MCY	0.45	3.78
tblVehicleEF	MCY	1.82	1.21
tblVehicleEF	MCY	2.1780e-003	2.0090e-003
tblVehicleEF	MCY	5.8500e-004	4.5000e-004
tblVehicleEF	MCY	0.95	4.15
tblVehicleEF	MCY	0.72	3.60
tblVehicleEF	MCY	2.95	1.55
tblVehicleEF	MCY	0.45	3.78
tblVehicleEF	MCY	1.98	1.31
tblVehicleEF	MCY	0.34	0.19

NASSCO - Phases 3 & 4 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MCY	0.21	0.16
tblVehicleEF	MCY	18.34	13.00
tblVehicleEF	MCY	7.79	7.61
tblVehicleEF	MCY	218.49	203.17
tblVehicleEF	MCY	56.88	45.29
tblVehicleEF	MCY	0.06	0.04
tblVehicleEF	MCY	0.01	7.1420e-003
tblVehicleEF	MCY	1.03	0.56
tblVehicleEF	MCY	0.25	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.2640e-003	2.4710e-003
tblVehicleEF	MCY	2.8110e-003	3.3530e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.1130e-003	2.3090e-003
tblVehicleEF	MCY	2.6350e-003	3.1450e-003
tblVehicleEF	MCY	1.52	4.26
tblVehicleEF	MCY	0.82	3.61
tblVehicleEF	MCY	2.30	1.27
tblVehicleEF	MCY	0.41	3.77
tblVehicleEF	MCY	1.58	1.19
tblVehicleEF	MCY	2.1620e-003	2.0090e-003
tblVehicleEF	MCY	5.6300e-004	4.4800e-004
tblVehicleEF	MCY	1.52	4.26
tblVehicleEF	MCY	0.82	3.61
tblVehicleEF	MCY	2.87	1.54
tblVehicleEF	MCY	0.41	3.77
tblVehicleEF	MCY	1.72	1.30
tblVehicleEF	MCY	0.35	0.21
tblVehicleEF	MCY	0.25	0.19

NASSCO - Phases 3 & 4 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MCY	19.80	14.65
tblVehicleEF	MCY	9.20	8.20
tblVehicleEF	MCY	221.16	205.59
tblVehicleEF	MCY	60.27	50.21
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	8.5500e-003
tblVehicleEF	MCY	1.16	0.62
tblVehicleEF	MCY	0.27	0.15
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.2640e-003	2.3570e-003
tblVehicleEF	MCY	2.8110e-003	3.5430e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.1130e-003	2.2070e-003
tblVehicleEF	MCY	2.6350e-003	3.3360e-003
tblVehicleEF	MCY	0.86	4.02
tblVehicleEF	MCY	0.95	3.58
tblVehicleEF	MCY	2.39	1.44
tblVehicleEF	MCY	0.53	4.05
tblVehicleEF	MCY	1.93	1.43
tblVehicleEF	MCY	2.1890e-003	2.0320e-003
tblVehicleEF	MCY	5.9600e-004	4.9600e-004
tblVehicleEF	MCY	0.86	4.02
tblVehicleEF	MCY	0.95	3.58
tblVehicleEF	MCY	2.99	1.72
tblVehicleEF	MCY	0.53	4.05
tblVehicleEF	MCY	2.10	1.55
tblVehicleEF	MDV	2.2930e-003	3.5470e-003
tblVehicleEF	MDV	0.05	0.08
tblVehicleEF	MDV	0.58	0.81

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MDV	2.38	3.14
tblVehicleEF	MDV	350.42	413.72
tblVehicleEF	MDV	72.06	96.88
tblVehicleEF	MDV	5.8550e-003	6.9070e-003
tblVehicleEF	MDV	0.02	0.04
tblVehicleEF	MDV	0.04	0.07
tblVehicleEF	MDV	0.21	0.33
tblVehicleEF	MDV	0.04	8.8900e-003
tblVehicleEF	MDV	1.2450e-003	1.4410e-003
tblVehicleEF	MDV	1.4720e-003	1.7910e-003
tblVehicleEF	MDV	0.02	3.1120e-003
tblVehicleEF	MDV	1.1480e-003	1.3280e-003
tblVehicleEF	MDV	1.3540e-003	1.6460e-003
tblVehicleEF	MDV	0.06	1.59
tblVehicleEF	MDV	0.11	0.09
tblVehicleEF	MDV	8.9300e-003	0.01
tblVehicleEF	MDV	0.05	0.26
tblVehicleEF	MDV	0.23	0.38
tblVehicleEF	MDV	3.2860e-003	4.0870e-003
tblVehicleEF	MDV	6.7600e-004	9.5800e-004
tblVehicleEF	MDV	0.06	1.59
tblVehicleEF	MDV	0.11	0.09
tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.05	0.26
tblVehicleEF	MDV	0.25	0.41
tblVehicleEF	MDV	2.4900e-003	3.5160e-003
tblVehicleEF	MDV	0.04	0.08
tblVehicleEF	MDV	0.65	0.82
tblVehicleEF	MDV	1.96	3.06

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MDV	362.76	414.37
tblVehicleEF	MDV	71.27	96.57
tblVehicleEF	MDV	5.5780e-003	6.7840e-003
tblVehicleEF	MDV	0.02	0.04
tblVehicleEF	MDV	0.04	0.07
tblVehicleEF	MDV	0.19	0.33
tblVehicleEF	MDV	0.04	8.8890e-003
tblVehicleEF	MDV	1.2450e-003	1.4340e-003
tblVehicleEF	MDV	1.4720e-003	1.7810e-003
tblVehicleEF	MDV	0.02	3.1110e-003
tblVehicleEF	MDV	1.1480e-003	1.3220e-003
tblVehicleEF	MDV	1.3540e-003	1.6380e-003
tblVehicleEF	MDV	0.09	1.61
tblVehicleEF	MDV	0.12	0.09
tblVehicleEF	MDV	9.5770e-003	0.01
tblVehicleEF	MDV	0.05	0.26
tblVehicleEF	MDV	0.20	0.37
tblVehicleEF	MDV	3.4020e-003	4.0940e-003
tblVehicleEF	MDV	6.6800e-004	9.5500e-004
tblVehicleEF	MDV	0.09	1.61
tblVehicleEF	MDV	0.12	0.09
tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.05	0.26
tblVehicleEF	MDV	0.22	0.40
tblVehicleEF	MDV	2.2450e-003	5.3930e-003
tblVehicleEF	MDV	0.05	0.11
tblVehicleEF	MDV	0.57	1.06
tblVehicleEF	MDV	2.55	4.42
tblVehicleEF	MDV	348.19	455.28

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MDV	72.39	108.53
tblVehicleEF	MDV	5.8870e-003	9.7720e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.04	0.12
tblVehicleEF	MDV	0.21	0.48
tblVehicleEF	MDV	0.04	8.9880e-003
tblVehicleEF	MDV	1.2450e-003	1.8920e-003
tblVehicleEF	MDV	1.4720e-003	2.2530e-003
tblVehicleEF	MDV	0.02	3.1460e-003
tblVehicleEF	MDV	1.1480e-003	1.7460e-003
tblVehicleEF	MDV	1.3540e-003	2.0720e-003
tblVehicleEF	MDV	0.05	1.79
tblVehicleEF	MDV	0.12	0.11
tblVehicleEF	MDV	8.7880e-003	0.02
tblVehicleEF	MDV	0.06	0.30
tblVehicleEF	MDV	0.24	0.57
tblVehicleEF	MDV	3.2660e-003	4.4980e-003
tblVehicleEF	MDV	6.7900e-004	1.0730e-003
tblVehicleEF	MDV	0.05	1.79
tblVehicleEF	MDV	0.12	0.11
tblVehicleEF	MDV	0.01	0.03
tblVehicleEF	MDV	0.06	0.30
tblVehicleEF	MDV	0.27	0.63
tblVehicleEF	MH	7.7820e-003	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.66	0.94
tblVehicleEF	MH	1.73	2.11
tblVehicleEF	MH	1,447.81	1,670.37
tblVehicleEF	MH	16.60	21.04

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.41	1.58
tblVehicleEF	MH	0.25	0.31
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.1000e-004	2.5800e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.3020e-003	3.3220e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.9300e-004	2.3800e-004
tblVehicleEF	MH	0.53	2.95
tblVehicleEF	MH	0.05	7.37
tblVehicleEF	MH	0.06	0.08
tblVehicleEF	MH	0.01	0.17
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.6400e-004	2.0800e-004
tblVehicleEF	MH	0.53	2.95
tblVehicleEF	MH	0.05	7.37
tblVehicleEF	MH	0.07	0.10
tblVehicleEF	MH	0.01	0.17
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MH	7.9360e-003	9.9380e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.68	0.91
tblVehicleEF	MH	1.62	2.08
tblVehicleEF	MH	1,447.84	1,669.46

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MH	16.42	20.96
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.35	1.57
tblVehicleEF	MH	0.23	0.31
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	2.1000e-004	2.5500e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.3020e-003	3.3230e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.9300e-004	2.3500e-004
tblVehicleEF	MH	0.73	3.00
tblVehicleEF	MH	0.05	7.35
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.01	0.17
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.6200e-004	2.0700e-004
tblVehicleEF	MH	0.73	3.00
tblVehicleEF	MH	0.05	7.35
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	0.01	0.17
tblVehicleEF	MH	0.08	0.11
tblVehicleEF	MH	7.7150e-003	0.01
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.65	1.61
tblVehicleEF	MH	1.78	2.57

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MH	1,447.80	1,699.67
tblVehicleEF	MH	16.69	22.98
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.41	1.69
tblVehicleEF	MH	0.25	0.30
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	2.1000e-004	3.1900e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.3020e-003	3.2890e-003
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	1.9300e-004	2.9400e-004
tblVehicleEF	MH	0.52	3.41
tblVehicleEF	MH	0.06	9.37
tblVehicleEF	MH	0.06	0.10
tblVehicleEF	MH	0.01	0.22
tblVehicleEF	MH	0.08	0.12
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.6500e-004	2.2700e-004
tblVehicleEF	MH	0.52	3.41
tblVehicleEF	MH	0.06	9.37
tblVehicleEF	MH	0.07	0.13
tblVehicleEF	MH	0.01	0.22
tblVehicleEF	MH	0.09	0.13
tblVehicleEF	MHD	3.9100e-003	0.25
tblVehicleEF	MHD	1.2980e-003	0.01
tblVehicleEF	MHD	8.9060e-003	9.5600e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	0.41	8.81
tblVehicleEF	MHD	0.18	0.30
tblVehicleEF	MHD	0.94	1.07
tblVehicleEF	MHD	71.56	1,724.30
tblVehicleEF	MHD	1,019.18	1,131.79
tblVehicleEF	MHD	9.08	9.53
tblVehicleEF	MHD	0.01	0.26
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	7.8970e-003	6.7900e-003
tblVehicleEF	MHD	0.40	8.99
tblVehicleEF	MHD	1.37	0.76
tblVehicleEF	MHD	1.68	1.17
tblVehicleEF	MHD	2.3000e-004	0.01
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	6.6690e-003	7.1540e-003
tblVehicleEF	MHD	1.1200e-004	1.1500e-004
tblVehicleEF	MHD	2.2000e-004	0.01
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.3730e-003	6.8340e-003
tblVehicleEF	MHD	1.0300e-004	1.0500e-004
tblVehicleEF	MHD	3.1000e-004	0.55
tblVehicleEF	MHD	0.02	6.3890e-003
tblVehicleEF	MHD	0.02	0.37
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	6.7900e-004	0.02
tblVehicleEF	MHD	9.7340e-003	0.01
tblVehicleEF	MHD	9.0000e-005	9.4000e-005

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	3.1000e-004	0.55
tblVehicleEF	MHD	0.02	6.3890e-003
tblVehicleEF	MHD	0.03	0.68
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	3.7220e-003	0.25
tblVehicleEF	MHD	1.3230e-003	0.01
tblVehicleEF	MHD	8.5250e-003	9.4740e-003
tblVehicleEF	MHD	0.35	8.74
tblVehicleEF	MHD	0.18	0.29
tblVehicleEF	MHD	0.88	1.06
tblVehicleEF	MHD	71.39	1,721.96
tblVehicleEF	MHD	1,019.18	1,131.13
tblVehicleEF	MHD	8.98	9.48
tblVehicleEF	MHD	0.01	0.26
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	7.6630e-003	6.7670e-003
tblVehicleEF	MHD	0.39	8.89
tblVehicleEF	MHD	1.32	0.73
tblVehicleEF	MHD	1.67	1.18
tblVehicleEF	MHD	1.9700e-004	0.01
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	6.6690e-003	6.9530e-003
tblVehicleEF	MHD	1.1200e-004	1.1300e-004
tblVehicleEF	MHD	1.8900e-004	0.01
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.3730e-003	6.6410e-003
tblVehicleEF	MHD	1.0300e-004	1.0400e-004

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	4.5500e-004	0.55
tblVehicleEF	MHD	0.02	6.3370e-003
tblVehicleEF	MHD	0.02	0.37
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	6.7800e-004	0.02
tblVehicleEF	MHD	9.7340e-003	0.01
tblVehicleEF	MHD	8.9000e-005	9.4000e-005
tblVehicleEF	MHD	4.5500e-004	0.55
tblVehicleEF	MHD	0.02	6.3370e-003
tblVehicleEF	MHD	0.03	0.68
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	4.1820e-003	0.28
tblVehicleEF	MHD	1.2860e-003	0.02
tblVehicleEF	MHD	9.0550e-003	0.01
tblVehicleEF	MHD	0.49	11.28
tblVehicleEF	MHD	0.18	0.56
tblVehicleEF	MHD	0.96	1.58
tblVehicleEF	MHD	71.79	1,887.62
tblVehicleEF	MHD	1,019.18	1,285.82
tblVehicleEF	MHD	9.12	12.26
tblVehicleEF	MHD	0.01	0.28
tblVehicleEF	MHD	0.13	0.15
tblVehicleEF	MHD	8.0420e-003	8.5840e-003
tblVehicleEF	MHD	0.42	10.83
tblVehicleEF	MHD	1.36	1.19

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	1.68	1.30
tblVehicleEF	MHD	2.7500e-004	0.03
tblVehicleEF	MHD	0.13	0.05
tblVehicleEF	MHD	6.6690e-003	0.01
tblVehicleEF	MHD	1.1200e-004	1.5600e-004
tblVehicleEF	MHD	2.6300e-004	0.03
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.3730e-003	0.01
tblVehicleEF	MHD	1.0300e-004	1.4300e-004
tblVehicleEF	MHD	2.7300e-004	0.83
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.02	0.46
tblVehicleEF	MHD	0.01	0.05
tblVehicleEF	MHD	0.02	0.07
tblVehicleEF	MHD	0.05	0.07
tblVehicleEF	MHD	6.8100e-004	0.02
tblVehicleEF	MHD	9.7340e-003	0.01
tblVehicleEF	MHD	9.0000e-005	1.2100e-004
tblVehicleEF	MHD	2.7300e-004	0.83
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.03	0.82
tblVehicleEF	MHD	0.02	0.07
tblVehicleEF	MHD	0.02	0.07
tblVehicleEF	MHD	0.05	0.08
tblVehicleEF	OBUS	8.7760e-003	0.26
tblVehicleEF	OBUS	5.1760e-003	0.05
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.66	9.17
tblVehicleEF	OBUS	0.57	1.04

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	2.33	2.76
tblVehicleEF	OBUS	92.68	1,193.58
tblVehicleEF	OBUS	1,393.34	1,469.43
tblVehicleEF	OBUS	18.53	20.95
tblVehicleEF	OBUS	0.01	0.15
tblVehicleEF	OBUS	0.10	0.12
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.38	3.95
tblVehicleEF	OBUS	1.17	1.01
tblVehicleEF	OBUS	0.81	0.69
tblVehicleEF	OBUS	1.3200e-004	4.6030e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.9060e-003	0.02
tblVehicleEF	OBUS	2.3200e-004	2.3600e-004
tblVehicleEF	OBUS	1.2600e-004	4.3990e-003
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.5400e-003	0.02
tblVehicleEF	OBUS	2.1400e-004	2.1700e-004
tblVehicleEF	OBUS	1.7300e-003	2.46
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.83
tblVehicleEF	OBUS	0.03	0.07
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	8.8200e-004	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.8300e-004	2.0700e-004
tblVehicleEF	OBUS	1.7300e-003	2.46
tblVehicleEF	OBUS	0.03	0.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	0.07	1.22
tblVehicleEF	OBUS	0.04	0.13
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	0.12	0.14
tblVehicleEF	OBUS	8.8760e-003	0.26
tblVehicleEF	OBUS	5.3030e-003	0.05
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.66	9.20
tblVehicleEF	OBUS	0.58	1.03
tblVehicleEF	OBUS	2.18	2.74
tblVehicleEF	OBUS	91.62	1,193.76
tblVehicleEF	OBUS	1,393.36	1,468.06
tblVehicleEF	OBUS	18.28	20.88
tblVehicleEF	OBUS	0.01	0.15
tblVehicleEF	OBUS	0.10	0.12
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.37	3.91
tblVehicleEF	OBUS	1.11	0.99
tblVehicleEF	OBUS	0.80	0.69
tblVehicleEF	OBUS	1.1700e-004	4.5380e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.9060e-003	0.02
tblVehicleEF	OBUS	2.3200e-004	2.3500e-004
tblVehicleEF	OBUS	1.1200e-004	4.3370e-003
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.5400e-003	0.02
tblVehicleEF	OBUS	2.1400e-004	2.1600e-004
tblVehicleEF	OBUS	2.4310e-003	2.51
tblVehicleEF	OBUS	0.03	0.03

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	0.06	0.83
tblVehicleEF	OBUS	0.03	0.07
tblVehicleEF	OBUS	0.08	0.10
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	8.7100e-004	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.8100e-004	2.0600e-004
tblVehicleEF	OBUS	2.4310e-003	2.51
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.08	1.22
tblVehicleEF	OBUS	0.04	0.13
tblVehicleEF	OBUS	0.08	0.10
tblVehicleEF	OBUS	0.12	0.14
tblVehicleEF	OBUS	8.6570e-003	0.26
tblVehicleEF	OBUS	5.1200e-003	0.05
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.67	8.66
tblVehicleEF	OBUS	0.56	1.54
tblVehicleEF	OBUS	2.39	3.36
tblVehicleEF	OBUS	94.15	1,099.60
tblVehicleEF	OBUS	1,393.33	1,620.27
tblVehicleEF	OBUS	18.65	24.35
tblVehicleEF	OBUS	0.01	0.13
tblVehicleEF	OBUS	0.10	0.13
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.41	3.99
tblVehicleEF	OBUS	1.16	1.19
tblVehicleEF	OBUS	0.82	0.69
tblVehicleEF	OBUS	1.5200e-004	6.0400e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.9060e-003	0.02
tblVehicleEF	OBUS	2.3200e-004	2.7700e-004
tblVehicleEF	OBUS	1.4600e-004	5.7740e-003
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.5400e-003	0.02
tblVehicleEF	OBUS	2.1400e-004	2.5500e-004
tblVehicleEF	OBUS	1.6450e-003	2.53
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.80
tblVehicleEF	OBUS	0.03	0.09
tblVehicleEF	OBUS	0.09	0.11
tblVehicleEF	OBUS	0.11	0.16
tblVehicleEF	OBUS	8.9500e-004	0.01
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	1.8500e-004	2.4100e-004
tblVehicleEF	OBUS	1.6450e-003	2.53
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.07	1.20
tblVehicleEF	OBUS	0.04	0.17
tblVehicleEF	OBUS	0.09	0.11
tblVehicleEF	OBUS	0.12	0.17
tblVehicleEF	SBUS	0.04	0.24
tblVehicleEF	SBUS	5.8180e-003	0.03
tblVehicleEF	SBUS	3.2730e-003	2.9830e-003
tblVehicleEF	SBUS	1.80	7.19
tblVehicleEF	SBUS	0.44	0.81
tblVehicleEF	SBUS	0.46	0.40
tblVehicleEF	SBUS	325.60	2,099.51

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	1,014.66	960.38
tblVehicleEF	SBUS	2.63	2.07
tblVehicleEF	SBUS	0.05	0.32
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	2.8690e-003	2.0080e-003
tblVehicleEF	SBUS	3.36	21.13
tblVehicleEF	SBUS	5.26	3.27
tblVehicleEF	SBUS	0.94	0.42
tblVehicleEF	SBUS	3.4630e-003	0.02
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	4.4000e-005	2.6000e-005
tblVehicleEF	SBUS	3.3130e-003	0.02
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.7690e-003	2.7230e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	4.1000e-005	2.4000e-005
tblVehicleEF	SBUS	2.6800e-004	0.10
tblVehicleEF	SBUS	2.8790e-003	5.9700e-003
tblVehicleEF	SBUS	0.19	0.53
tblVehicleEF	SBUS	0.09	0.07
tblVehicleEF	SBUS	5.2140e-003	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	3.0920e-003	0.02
tblVehicleEF	SBUS	9.6660e-003	9.0850e-003
tblVehicleEF	SBUS	2.6000e-005	2.0000e-005
tblVehicleEF	SBUS	2.6800e-004	0.10
tblVehicleEF	SBUS	2.8790e-003	5.9700e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	0.26	0.86
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	5.2140e-003	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.04	0.24
tblVehicleEF	SBUS	5.8780e-003	0.03
tblVehicleEF	SBUS	2.8480e-003	2.9490e-003
tblVehicleEF	SBUS	1.76	7.18
tblVehicleEF	SBUS	0.45	0.81
tblVehicleEF	SBUS	0.36	0.39
tblVehicleEF	SBUS	333.94	2,104.57
tblVehicleEF	SBUS	1,014.67	959.76
tblVehicleEF	SBUS	2.47	2.05
tblVehicleEF	SBUS	0.05	0.32
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	2.7530e-003	2.0090e-003
tblVehicleEF	SBUS	3.43	21.12
tblVehicleEF	SBUS	5.07	3.23
tblVehicleEF	SBUS	0.94	0.42
tblVehicleEF	SBUS	2.9270e-003	0.02
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	4.4000e-005	2.6000e-005
tblVehicleEF	SBUS	2.8010e-003	0.02
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.7690e-003	2.7230e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	4.1000e-005	2.4000e-005

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	3.8200e-004	0.11
tblVehicleEF	SBUS	2.9390e-003	5.9570e-003
tblVehicleEF	SBUS	0.18	0.53
tblVehicleEF	SBUS	0.09	0.07
tblVehicleEF	SBUS	4.5590e-003	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	3.1710e-003	0.02
tblVehicleEF	SBUS	9.6660e-003	9.0790e-003
tblVehicleEF	SBUS	2.4000e-005	2.0000e-005
tblVehicleEF	SBUS	3.8200e-004	0.11
tblVehicleEF	SBUS	2.9390e-003	5.9570e-003
tblVehicleEF	SBUS	0.26	0.86
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	4.5590e-003	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.04	0.20
tblVehicleEF	SBUS	5.7900e-003	0.03
tblVehicleEF	SBUS	3.4830e-003	3.5710e-003
tblVehicleEF	SBUS	1.85	6.71
tblVehicleEF	SBUS	0.44	1.34
tblVehicleEF	SBUS	0.50	0.57
tblVehicleEF	SBUS	314.08	2,191.16
tblVehicleEF	SBUS	1,014.65	1,071.53
tblVehicleEF	SBUS	2.72	2.33
tblVehicleEF	SBUS	0.05	0.34
tblVehicleEF	SBUS	0.14	0.15
tblVehicleEF	SBUS	2.9450e-003	1.8230e-003
tblVehicleEF	SBUS	3.27	26.46
tblVehicleEF	SBUS	5.24	5.32

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	0.94	0.35
tblVehicleEF	SBUS	4.2020e-003	0.04
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.4000e-005	2.8000e-005
tblVehicleEF	SBUS	4.0200e-003	0.04
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.7690e-003	2.7500e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	4.1000e-005	2.6000e-005
tblVehicleEF	SBUS	2.4600e-004	0.13
tblVehicleEF	SBUS	2.9910e-003	8.5790e-003
tblVehicleEF	SBUS	0.19	0.52
tblVehicleEF	SBUS	0.09	0.11
tblVehicleEF	SBUS	6.6480e-003	0.20
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.9830e-003	0.02
tblVehicleEF	SBUS	9.6660e-003	0.01
tblVehicleEF	SBUS	2.7000e-005	2.3000e-005
tblVehicleEF	SBUS	2.4600e-004	0.13
tblVehicleEF	SBUS	2.9910e-003	8.5790e-003
tblVehicleEF	SBUS	0.26	0.82
tblVehicleEF	SBUS	0.11	0.16
tblVehicleEF	SBUS	6.6480e-003	0.20
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	UBUS	4.89	2.27
tblVehicleEF	UBUS	0.02	5.3340e-003
tblVehicleEF	UBUS	38.17	29.02

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	UBUS	1.20	0.76
tblVehicleEF	UBUS	1,887.51	1,072.80
tblVehicleEF	UBUS	13.52	5.22
tblVehicleEF	UBUS	0.31	0.20
tblVehicleEF	UBUS	0.01	7.7200e-003
tblVehicleEF	UBUS	0.41	0.16
tblVehicleEF	UBUS	0.13	0.05
tblVehicleEF	UBUS	0.07	0.10
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1070e-003	3.0700e-004
tblVehicleEF	UBUS	1.7900e-004	2.6000e-005
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9510e-003	2.8900e-004
tblVehicleEF	UBUS	1.6400e-004	2.4000e-005
tblVehicleEF	UBUS	6.7700e-004	0.06
tblVehicleEF	UBUS	8.8370e-003	4.5170e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	1.6190e-003	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	3.6080e-003	9.5100e-004
tblVehicleEF	UBUS	1.3400e-004	5.2000e-005
tblVehicleEF	UBUS	6.7700e-004	0.06
tblVehicleEF	UBUS	8.8370e-003	4.5170e-003
tblVehicleEF	UBUS	5.00	2.32
tblVehicleEF	UBUS	1.6190e-003	0.01
tblVehicleEF	UBUS	0.07	0.02
tblVehicleEF	UBUS	4.89	2.29
tblVehicleEF	UBUS	0.01	5.2980e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	UBUS	38.17	29.21
tblVehicleEF	UBUS	1.04	0.75
tblVehicleEF	UBUS	1,887.51	1,072.31
tblVehicleEF	UBUS	13.24	5.21
tblVehicleEF	UBUS	0.31	0.20
tblVehicleEF	UBUS	0.01	7.7000e-003
tblVehicleEF	UBUS	0.41	0.15
tblVehicleEF	UBUS	0.13	0.05
tblVehicleEF	UBUS	0.07	0.10
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1070e-003	3.0800e-004
tblVehicleEF	UBUS	1.7900e-004	2.6000e-005
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9510e-003	2.9000e-004
tblVehicleEF	UBUS	1.6400e-004	2.4000e-005
tblVehicleEF	UBUS	9.4400e-004	0.06
tblVehicleEF	UBUS	9.3670e-003	4.5490e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	1.4660e-003	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	3.6080e-003	9.5100e-004
tblVehicleEF	UBUS	1.3100e-004	5.2000e-005
tblVehicleEF	UBUS	9.4400e-004	0.06
tblVehicleEF	UBUS	9.3670e-003	4.5490e-003
tblVehicleEF	UBUS	5.00	2.34
tblVehicleEF	UBUS	1.4660e-003	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	4.89	2.14

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	UBUS	0.02	8.1080e-003
tblVehicleEF	UBUS	38.17	30.34
tblVehicleEF	UBUS	1.28	0.80
tblVehicleEF	UBUS	1,887.51	1,438.99
tblVehicleEF	UBUS	13.65	5.83
tblVehicleEF	UBUS	0.31	0.27
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.41	0.32
tblVehicleEF	UBUS	0.14	0.08
tblVehicleEF	UBUS	0.07	0.11
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1070e-003	2.9200e-004
tblVehicleEF	UBUS	1.7900e-004	2.1000e-005
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9510e-003	2.7500e-004
tblVehicleEF	UBUS	1.6400e-004	1.9000e-005
tblVehicleEF	UBUS	6.0600e-004	0.09
tblVehicleEF	UBUS	9.8070e-003	8.2650e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	1.9860e-003	0.01
tblVehicleEF	UBUS	0.06	0.03
tblVehicleEF	UBUS	3.6080e-003	1.0580e-003
tblVehicleEF	UBUS	1.3500e-004	5.8000e-005
tblVehicleEF	UBUS	6.0600e-004	0.09
tblVehicleEF	UBUS	9.8070e-003	8.2650e-003
tblVehicleEF	UBUS	5.00	2.19
tblVehicleEF	UBUS	1.9860e-003	0.01
tblVehicleEF	UBUS	0.07	0.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	2.9682	22.4821	26.5042	0.0814	0.1171	0.8563	0.9735	0.0314	0.8226	0.8540	0.0000	7,719.5714	7,719.5714	1.5299	0.0224	7,764.4902
2025	2.7919	20.5843	26.2623	0.0814	0.1171	0.7437	0.8608	0.0314	0.7140	0.7454	0.0000	7,720.5433	7,720.5433	1.5215	0.0219	7,765.1013
2026	2.7905	20.5792	26.2514	0.0814	0.1171	0.7436	0.8608	0.0314	0.7140	0.7453	0.0000	7,716.2345	7,716.2345	1.5216	0.0214	7,760.6466
2027	2.7893	20.5743	26.2420	0.0813	0.1171	0.7436	0.8607	0.0314	0.7139	0.7453	0.0000	7,711.9044	7,711.9044	1.5217	0.0209	7,756.1652
Maximum	**2.9682**	**22.4821**	**26.5042**	**0.0814**	**0.1171**	**0.8563**	**0.9735**	**0.0314**	**0.8226**	**0.8540**	**0.0000**	**7,720.5433**	**7,720.5433**	**1.5299**	**0.0224**	**7,765.1013**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	1.1109	7.5411	36.7870	0.0814	0.1171	0.1657	0.2828	0.0314	0.1629	0.1943	0.0000	7,719.5714	7,719.5714	1.5299	0.0224	7,764.4901
2025	1.0948	7.4178	36.7662	0.0814	0.1171	0.1583	0.2755	0.0314	0.1558	0.1872	0.0000	7,720.5433	7,720.5433	1.5215	0.0219	7,765.1013
2026	1.0934	7.4127	36.7553	0.0814	0.1171	0.1583	0.2754	0.0314	0.1558	0.1872	0.0000	7,716.2345	7,716.2345	1.5216	0.0214	7,760.6466
2027	1.0921	7.4078	36.7458	0.0813	0.1171	0.1583	0.2754	0.0314	0.1558	0.1871	0.0000	7,711.9044	7,711.9044	1.5217	0.0209	7,756.1652
Maximum	**1.1109**	**7.5411**	**36.7870**	**0.0814**	**0.1171**	**0.1657**	**0.2828**	**0.0314**	**0.1629**	**0.1943**	**0.0000**	**7,720.5433**	**7,720.5433**	**1.5299**	**0.0224**	**7,765.1013**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**61.28**	**64.64**	**-39.71**	**0.00**	**0.00**	**79.25**	**68.81**	**0.00**	**78.74**	**75.54**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

NASSCO - Phases 3 & 4 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4962	5.0000e-005	5.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0118	0.0118	3.0000e-005		0.0126
Energy	0.0184	0.1668	0.1401	1.0000e-003		0.0127	0.0127		0.0127	0.0127		200.1380	200.1380	3.8400e-003	3.6700e-003	201.3273
Mobile	2.1714	1.2204	9.0481	0.0209	1.9522	0.0153	1.9675	0.4865	0.0143	0.5007		2,133.2960	2,133.2960	0.1153	0.0956	2,164.6634
Total	**3.6859**	**1.3873**	**9.1937**	**0.0219**	**1.9522**	**0.0280**	**1.9802**	**0.4865**	**0.0270**	**0.5134**		**2,333.4458**	**2,333.4458**	**0.1192**	**0.0993**	**2,366.0032**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4962	5.0000e-005	5.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0118	0.0118	3.0000e-005		0.0126
Energy	0.0184	0.1668	0.1401	1.0000e-003		0.0127	0.0127		0.0127	0.0127		200.1380	200.1380	3.8400e-003	3.6700e-003	201.3273
Mobile	2.1714	1.2204	9.0481	0.0209	1.9522	0.0153	1.9675	0.4865	0.0143	0.5007		2,133.2960	2,133.2960	0.1153	0.0956	2,164.6634
Total	**3.6859**	**1.3873**	**9.1937**	**0.0219**	**1.9522**	**0.0280**	**1.9802**	**0.4865**	**0.0270**	**0.5134**		**2,333.4458**	**2,333.4458**	**0.1192**	**0.0993**	**2,366.0032**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Phase 3: Quay Repair Berths 2-5	Building Construction	1/2/2024	2/29/2024	7	59	
2	Phase 4: Additional repairs	Building Construction	1/2/2025	12/31/2027	7	1094	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase 3: Quay Repair Berths 2-5	Air Compressors	1	8.00	78	0.48
Phase 3: Quay Repair Berths 2-5	Bore/Drill Rigs	1	4.00	595	0.50
Phase 3: Quay Repair Berths 2-5	Bore/Drill Rigs	1	4.00	595	0.50
Phase 3: Quay Repair Berths 2-5	Cranes	1	8.00	282	0.29
Phase 3: Quay Repair Berths 2-5	Crushing/Proc. Equipment	1	8.00	10	0.78
Phase 3: Quay Repair Berths 2-5	Excavators	1	4.00	242	0.38
Phase 3: Quay Repair Berths 2-5	Forklifts	1	6.00	89	0.20
Phase 3: Quay Repair Berths 2-5	Generator Sets	1	8.00	84	0.74
Phase 3: Quay Repair Berths 2-5	Off-Highway Trucks	1	2.00	385	0.38

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase 3: Quay Repair Berths 2-5	Other Construction Equipment	1	4.00	595	0.50
Phase 3: Quay Repair Berths 2-5	Pumps	1	8.00	225	0.74
Phase 3: Quay Repair Berths 2-5	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Phase 3: Quay Repair Berths 2-5	Welders	3	8.00	46	0.45
Phase 4: Additional repairs	Air Compressors	1	8.00	78	0.48
Phase 4: Additional repairs	Bore/Drill Rigs	1	4.00	595	0.50
Phase 4: Additional repairs	Bore/Drill Rigs	1	4.00	595	0.50
Phase 4: Additional repairs	Cranes	1	8.00	282	0.29
Phase 4: Additional repairs	Crushing/Proc. Equipment	1	8.00	10	0.78
Phase 4: Additional repairs	Excavators	1	4.00	242	0.38
Phase 4: Additional repairs	Forklifts	1	6.00	89	0.20
Phase 4: Additional repairs	Generator Sets	1	8.00	84	0.74
Phase 4: Additional repairs	Off-Highway Trucks	1	2.00	385	0.38
Phase 4: Additional repairs	Other Construction Equipment	1	4.00	595	0.50
Phase 4: Additional repairs	Pumps	1	8.00	225	0.74
Phase 4: Additional repairs	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Phase 4: Additional repairs	Welders	3	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase 3: Quay Repair Berths 2-5	15	10.00	0.00	118.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4: Additional repairs	15	10.00	0.00	2,188.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

NASSCO - Phases 3 & 4 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Phase 3: Quay Repair Berths 2-5 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9380	22.2074	26.2065	0.0795		0.8537	0.8537		0.8201	0.8201		7,517.2283	7,517.2283	1.5212		7,555.2590
Total	**2.9380**	**22.2074**	**26.2065**	**0.0795**		**0.8537**	**0.8537**		**0.8201**	**0.8201**		**7,517.2283**	**7,517.2283**	**1.5212**		**7,555.2590**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.4800e-003	0.2594	0.0729	1.1700e-003	0.0350	2.2300e-003	0.0372	9.5900e-003	2.1400e-003	0.0117		129.9273	129.9273	6.8700e-003	0.0207	136.2608
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0257	0.0153	0.2249	7.0000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.9000e-004	0.0222		72.4158	72.4158	1.8100e-003	1.7100e-003	72.9704
Total	**0.0302**	**0.2746**	**0.2977**	**1.8700e-003**	**0.1171**	**2.6500e-003**	**0.1198**	**0.0314**	**2.5300e-003**	**0.0339**		**202.3430**	**202.3430**	**8.6800e-003**	**0.0224**	**209.2311**

NASSCO - Phases 3 & 4 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Phase 3: Quay Repair Berths 2-5 - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0807	7.2664	36.4893	0.0795		0.1631	0.1631		0.1604	0.1604	0.0000	7,517.2283	7,517.2283	1.5212		7,555.2590
Total	**1.0807**	**7.2664**	**36.4893**	**0.0795**		**0.1631**	**0.1631**		**0.1604**	**0.1604**	**0.0000**	**7,517.2283**	**7,517.2283**	**1.5212**		**7,555.2590**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.4800e-003	0.2594	0.0729	1.1700e-003	0.0350	2.2300e-003	0.0372	9.5900e-003	2.1400e-003	0.0117		129.9273	129.9273	6.8700e-003	0.0207	136.2608
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0257	0.0153	0.2249	7.0000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.9000e-004	0.0222		72.4158	72.4158	1.8100e-003	1.7100e-003	72.9704
Total	**0.0302**	**0.2746**	**0.2977**	**1.8700e-003**	**0.1171**	**2.6500e-003**	**0.1198**	**0.0314**	**2.5300e-003**	**0.0339**		**202.3430**	**202.3430**	**8.6800e-003**	**0.0224**	**209.2311**

NASSCO - Phases 3 & 4 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Phase 4: Additional repairs - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7633	20.3147	25.9775	0.0796		0.7410	0.7410		0.7115	0.7115		7,522.6107	7,522.6107	1.5128		7,560.4306
Total	**2.7633**	**20.3147**	**25.9775**	**0.0796**		**0.7410**	**0.7410**		**0.7115**	**0.7115**		**7,522.6107**	**7,522.6107**	**1.5128**		**7,560.4306**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.4200e-003	0.2558	0.0739	1.1500e-003	0.0350	2.2300e-003	0.0372	9.5900e-003	2.1300e-003	0.0117		127.2921	127.2921	7.0900e-003	0.0203	133.5109
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0242	0.0138	0.2110	6.8000e-004	0.0822	4.0000e-004	0.0826	0.0218	3.7000e-004	0.0222		70.6404	70.6404	1.6500e-003	1.6000e-003	71.1598
Total	**0.0286**	**0.2697**	**0.2849**	**1.8300e-003**	**0.1171**	**2.6300e-003**	**0.1198**	**0.0314**	**2.5000e-003**	**0.0339**		**197.9326**	**197.9326**	**8.7400e-003**	**0.0219**	**204.6707**

NASSCO - Phases 3 & 4 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Phase 4: Additional repairs - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0662	7.1482	36.4813	0.0796		0.1557	0.1557		0.1533	0.1533	0.0000	7,522.6107	7,522.6107	1.5128		7,560.4306
Total	**1.0662**	**7.1482**	**36.4813**	**0.0796**		**0.1557**	**0.1557**		**0.1533**	**0.1533**	**0.0000**	**7,522.6107**	**7,522.6107**	**1.5128**		**7,560.4306**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.4200e-003	0.2558	0.0739	1.1500e-003	0.0350	2.2300e-003	0.0372	9.5900e-003	2.1300e-003	0.0117		127.2921	127.2921	7.0900e-003	0.0203	133.5109
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0242	0.0138	0.2110	6.8000e-004	0.0822	4.0000e-004	0.0826	0.0218	3.7000e-004	0.0222		70.6404	70.6404	1.6500e-003	1.6000e-003	71.1598
Total	**0.0286**	**0.2697**	**0.2849**	**1.8300e-003**	**0.1171**	**2.6300e-003**	**0.1198**	**0.0314**	**2.5000e-003**	**0.0339**		**197.9326**	**197.9326**	**8.7400e-003**	**0.0219**	**204.6707**

NASSCO - Phases 3 & 4 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Phase 4: Additional repairs - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7633	20.3147	25.9775	0.0796		0.7410	0.7410		0.7115	0.7115		7,522.6107	7,522.6107	1.5128		7,560.4306
Total	**2.7633**	**20.3147**	**25.9775**	**0.0796**		**0.7410**	**0.7410**		**0.7115**	**0.7115**		**7,522.6107**	**7,522.6107**	**1.5128**		**7,560.4306**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.3700e-003	0.2519	0.0749	1.1200e-003	0.0350	2.2000e-003	0.0372	9.5900e-003	2.1100e-003	0.0117		124.6348	124.6348	7.3000e-003	0.0199	130.7372
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0229	0.0126	0.1991	6.6000e-004	0.0822	3.8000e-004	0.0825	0.0218	3.5000e-004	0.0221		68.9891	68.9891	1.5100e-003	1.5200e-003	69.4788
Total	**0.0272**	**0.2645**	**0.2740**	**1.7800e-003**	**0.1171**	**2.5800e-003**	**0.1197**	**0.0314**	**2.4600e-003**	**0.0338**		**193.6239**	**193.6239**	**8.8100e-003**	**0.0214**	**200.2160**

NASSCO - Phases 3 & 4 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Phase 4: Additional repairs - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0662	7.1482	36.4813	0.0796		0.1557	0.1557		0.1533	0.1533	0.0000	7,522.6107	7,522.6107	1.5128		7,560.4306
Total	**1.0662**	**7.1482**	**36.4813**	**0.0796**		**0.1557**	**0.1557**		**0.1533**	**0.1533**	**0.0000**	**7,522.6107**	**7,522.6107**	**1.5128**		**7,560.4306**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.3700e-003	0.2519	0.0749	1.1200e-003	0.0350	2.2000e-003	0.0372	9.5900e-003	2.1100e-003	0.0117		124.6348	124.6348	7.3000e-003	0.0199	130.7372
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0229	0.0126	0.1991	6.6000e-004	0.0822	3.8000e-004	0.0825	0.0218	3.5000e-004	0.0221		68.9891	68.9891	1.5100e-003	1.5200e-003	69.4788
Total	**0.0272**	**0.2645**	**0.2740**	**1.7800e-003**	**0.1171**	**2.5800e-003**	**0.1197**	**0.0314**	**2.4600e-003**	**0.0338**		**193.6239**	**193.6239**	**8.8100e-003**	**0.0214**	**200.2160**

NASSCO - Phases 3 & 4 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Phase 4: Additional repairs - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7633	20.3147	25.9775	0.0796		0.7410	0.7410		0.7115	0.7115		7,522.6107	7,522.6107	1.5128		7,560.4306
Total	**2.7633**	**20.3147**	**25.9775**	**0.0796**		**0.7410**	**0.7410**		**0.7115**	**0.7115**		**7,522.6107**	**7,522.6107**	**1.5128**		**7,560.4306**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.3200e-003	0.2481	0.0757	1.0900e-003	0.0350	2.1800e-003	0.0372	9.5900e-003	2.0900e-003	0.0117		121.7979	121.7979	7.4900e-003	0.0194	127.7744
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0216	0.0116	0.1888	6.4000e-004	0.0822	3.6000e-004	0.0825	0.0218	3.3000e-004	0.0221		67.4958	67.4958	1.3900e-003	1.4400e-003	67.9602
Total	**0.0260**	**0.2597**	**0.2645**	**1.7300e-003**	**0.1171**	**2.5400e-003**	**0.1197**	**0.0314**	**2.4200e-003**	**0.0338**		**189.2937**	**189.2937**	**8.8800e-003**	**0.0209**	**195.7346**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Phase 4: Additional repairs - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0662	7.1482	36.4813	0.0796		0.1557	0.1557		0.1533	0.1533	0.0000	7,522.6107	7,522.6107	1.5128		7,560.4306
Total	**1.0662**	**7.1482**	**36.4813**	**0.0796**		**0.1557**	**0.1557**		**0.1533**	**0.1533**	**0.0000**	**7,522.6107**	**7,522.6107**	**1.5128**		**7,560.4306**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.3200e-003	0.2481	0.0757	1.0900e-003	0.0350	2.1800e-003	0.0372	9.5900e-003	2.0900e-003	0.0117		121.7979	121.7979	7.4900e-003	0.0194	127.7744
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0216	0.0116	0.1888	6.4000e-004	0.0822	3.6000e-004	0.0825	0.0218	3.3000e-004	0.0221		67.4958	67.4958	1.3900e-003	1.4400e-003	67.9602
Total	**0.0260**	**0.2597**	**0.2645**	**1.7300e-003**	**0.1171**	**2.5400e-003**	**0.1197**	**0.0314**	**2.4200e-003**	**0.0338**		**189.2937**	**189.2937**	**8.8800e-003**	**0.0209**	**195.7346**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.1714	1.2204	9.0481	0.0209	1.9522	0.0153	1.9675	0.4865	0.0143	0.5007		2,133.2960	2,133.2960	0.1153	0.0956	2,164.6634
Unmitigated	2.1714	1.2204	9.0481	0.0209	1.9522	0.0153	1.9675	0.4865	0.0143	0.5007		2,133.2960	2,133.2960	0.1153	0.0956	2,164.6634

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	211.83	346.04	274.35	700,484	700,484
Total	211.83	346.04	274.35	700,484	700,484

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.571163	0.061971	0.173016	0.114025	0.023169	0.006440	0.009521	0.006303	0.000689	0.000605	0.027981	0.000899	0.004218

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0184	0.1668	0.1401	1.0000e-003		0.0127	0.0127		0.0127	0.0127		200.1380	200.1380	3.8400e-003	3.6700e-003	201.3273
NaturalGas Unmitigated	0.0184	0.1668	0.1401	1.0000e-003		0.0127	0.0127		0.0127	0.0127		200.1380	200.1380	3.8400e-003	3.6700e-003	201.3273

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	1701.17	0.0184	0.1668	0.1401	1.0000e-003		0.0127	0.0127		0.0127	0.0127		200.1380	200.1380	3.8400e-003	3.6700e-003	201.3273
Total		**0.0184**	**0.1668**	**0.1401**	**1.0000e-003**		**0.0127**	**0.0127**		**0.0127**	**0.0127**		**200.1380**	**200.1380**	**3.8400e-003**	**3.6700e-003**	**201.3273**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	1.70117	0.0184	0.1668	0.1401	1.0000e-003		0.0127	0.0127		0.0127	0.0127		200.1380	200.1380	3.8400e-003	3.6700e-003	201.3273
Total		**0.0184**	**0.1668**	**0.1401**	**1.0000e-003**		**0.0127**	**0.0127**		**0.0127**	**0.0127**		**200.1380**	**200.1380**	**3.8400e-003**	**3.6700e-003**	**201.3273**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.4962	5.0000e-005	5.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0118	0.0118	3.0000e-005		0.0126
Unmitigated	1.4962	5.0000e-005	5.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0118	0.0118	3.0000e-005		0.0126

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3422					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1535					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1000e-004	5.0000e-005	5.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0118	0.0118	3.0000e-005		0.0126
Total	**1.4962**	**5.0000e-005**	**5.4900e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**0.0118**	**0.0118**	**3.0000e-005**		**0.0126**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3422					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1535					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1000e-004	5.0000e-005	5.4900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0118	0.0118	3.0000e-005		0.0126
Total	**1.4962**	**5.0000e-005**	**5.4900e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**0.0118**	**0.0118**	**3.0000e-005**		**0.0126**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

NASSCO - Phase 5

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	2.79	1000sqft	0.06	2,790.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Jan 2024-Jan 2034: As-needed structural repair and/or replacement of selected piles at Berths 2, 3, 4, 5, 6, at Pier 12 and the floating dry dock approach pier, and at the Berth 1 Platform.

Land Use - Structure pile repairs and replacement at Berths 2, 3, 4, 5, 6, and Pier 12, and the floating dry dock approach pier and the Berth 1 Platform (10 years). Total proposed fill area: 2789 sq. ft.

Construction Phase - Client provided information. Phase 5 (Jan, 2024 - Jan 31, 2034): Repair/replacement of selected piles at Berths 2, 3, 4, 5, 6, and Pier 12 and the floating dry dock approach pier, and at the Berth 1 Platform, as needed.

Off-road Equipment - Client supplied equipment list

Trips and VMT - 2 haul truck trips per day per client. Most materials will be transported via water access.

Construction Off-road Equipment Mitigation - Mitigation: at least 90% Tier 4 engines.

Vehicle Emission Factors - EMFAC 2021 Emission Factors

Vehicle Emission Factors - EMFAC 2021 Emission Factors

Vehicle Emission Factors - EMFAC 2021 Emission Factors

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	100.00	3,683.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblOffRoadEquipment	HorsePower	231.00	282.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	85.00	10.00
tblOffRoadEquipment	HorsePower	158.00	242.00
tblOffRoadEquipment	HorsePower	402.00	383.00
tblOffRoadEquipment	HorsePower	172.00	595.00
tblOffRoadEquipment	HorsePower	84.00	225.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	7,366.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblTripsAndVMT	WorkerTripNumber	1.00	10.00
tblVehicleEF	HHD	0.03	0.71
tblVehicleEF	HHD	0.10	0.06
tblVehicleEF	HHD	6.66	76.55
tblVehicleEF	HHD	0.59	0.50
tblVehicleEF	HHD	8.8000e-003	2.5080e-003
tblVehicleEF	HHD	909.54	11,481.16
tblVehicleEF	HHD	1,140.56	1,449.81
tblVehicleEF	HHD	0.07	0.02
tblVehicleEF	HHD	0.14	1.82
tblVehicleEF	HHD	0.18	0.23
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	5.44	63.27
tblVehicleEF	HHD	2.32	1.66
tblVehicleEF	HHD	2.38	2.66
tblVehicleEF	HHD	2.1260e-003	0.03
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	2.0340e-003	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8750e-003	8.8370e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.0000e-006	3.0070e-003
tblVehicleEF	HHD	9.3000e-005	4.2000e-005
tblVehicleEF	HHD	0.44	5.14
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	3.9000e-005	1.5500e-004
tblVehicleEF	HHD	2.0000e-006	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	HHD	8.3320e-003	0.11
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	2.0000e-006	3.0070e-003
tblVehicleEF	HHD	9.3000e-005	4.2000e-005
tblVehicleEF	HHD	0.51	6.33
tblVehicleEF	HHD	0.12	0.08
tblVehicleEF	HHD	3.9000e-005	1.5500e-004
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.74
tblVehicleEF	HHD	0.10	0.06
tblVehicleEF	HHD	6.57	76.53
tblVehicleEF	HHD	0.59	0.52
tblVehicleEF	HHD	8.2710e-003	2.2820e-003
tblVehicleEF	HHD	898.24	11,332.25
tblVehicleEF	HHD	1,140.56	1,433.35
tblVehicleEF	HHD	0.07	0.02
tblVehicleEF	HHD	0.14	1.80
tblVehicleEF	HHD	0.18	0.23
tblVehicleEF	HHD	5.18	62.43
tblVehicleEF	HHD	2.23	1.59
tblVehicleEF	HHD	2.38	2.67
tblVehicleEF	HHD	1.8800e-003	0.03
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	1.7990e-003	0.03
tblVehicleEF	HHD	0.03	0.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	HHD	8.8750e-003	8.8380e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	3.0000e-006	2.5580e-003
tblVehicleEF	HHD	9.6000e-005	3.4000e-005
tblVehicleEF	HHD	0.47	5.14
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	3.7000e-005	1.3900e-004
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	8.2280e-003	0.10
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	3.0000e-006	2.5580e-003
tblVehicleEF	HHD	9.6000e-005	3.4000e-005
tblVehicleEF	HHD	0.54	6.36
tblVehicleEF	HHD	0.12	0.08
tblVehicleEF	HHD	3.7000e-005	1.3900e-004
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.80
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	6.78	80.34
tblVehicleEF	HHD	0.59	0.57
tblVehicleEF	HHD	9.0340e-003	5.0770e-003
tblVehicleEF	HHD	925.14	13,127.44
tblVehicleEF	HHD	1,140.55	1,652.70
tblVehicleEF	HHD	0.07	0.05
tblVehicleEF	HHD	0.15	2.08
tblVehicleEF	HHD	0.18	0.26
tblVehicleEF	HHD	1.0000e-006	8.0000e-006

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	HHD	5.80	70.64
tblVehicleEF	HHD	2.31	2.06
tblVehicleEF	HHD	2.38	2.75
tblVehicleEF	HHD	2.4670e-003	0.04
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	2.3600e-003	0.04
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8750e-003	8.8310e-003
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	2.0000e-006	8.0720e-003
tblVehicleEF	HHD	9.7000e-005	1.1600e-004
tblVehicleEF	HHD	0.40	4.92
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.4000e-005	3.1900e-004
tblVehicleEF	HHD	2.0000e-006	1.0000e-006
tblVehicleEF	HHD	8.4750e-003	0.12
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	2.0000e-006	8.0720e-003
tblVehicleEF	HHD	9.7000e-005	1.1600e-004
tblVehicleEF	HHD	0.47	6.17
tblVehicleEF	HHD	0.12	0.11
tblVehicleEF	HHD	4.4000e-005	3.1900e-004
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	LDA	7.6500e-004	1.9870e-003
tblVehicleEF	LDA	0.02	0.05

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDA	0.37	0.57
tblVehicleEF	LDA	1.46	2.34
tblVehicleEF	LDA	211.38	252.96
tblVehicleEF	LDA	42.39	60.27
tblVehicleEF	LDA	3.0290e-003	3.7030e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.11	0.20
tblVehicleEF	LDA	0.04	7.0230e-003
tblVehicleEF	LDA	7.3200e-004	1.2570e-003
tblVehicleEF	LDA	9.5500e-004	1.6670e-003
tblVehicleEF	LDA	0.02	2.4580e-003
tblVehicleEF	LDA	6.7300e-004	1.1560e-003
tblVehicleEF	LDA	8.7800e-004	1.5330e-003
tblVehicleEF	LDA	0.02	1.20
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	2.3660e-003	7.1680e-003
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.09	0.23
tblVehicleEF	LDA	1.9030e-003	2.5010e-003
tblVehicleEF	LDA	3.8100e-004	5.9600e-004
tblVehicleEF	LDA	0.02	1.20
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	3.4330e-003	0.01
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.09	0.25
tblVehicleEF	LDA	8.3500e-004	1.9740e-003
tblVehicleEF	LDA	0.02	0.05
tblVehicleEF	LDA	0.41	0.58

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tblVehicleEF	LDA	1.21	2.29
tblVehicleEF	LDA	223.11	253.65
tblVehicleEF	LDA	41.93	60.06
tblVehicleEF	LDA	2.8550e-003	3.6470e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.10	0.20
tblVehicleEF	LDA	0.04	7.0210e-003
tblVehicleEF	LDA	7.3200e-004	1.2510e-003
tblVehicleEF	LDA	9.5500e-004	1.6610e-003
tblVehicleEF	LDA	0.02	2.4570e-003
tblVehicleEF	LDA	6.7300e-004	1.1520e-003
tblVehicleEF	LDA	8.7800e-004	1.5270e-003
tblVehicleEF	LDA	0.03	1.22
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	2.5480e-003	7.0860e-003
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	2.0090e-003	2.5070e-003
tblVehicleEF	LDA	3.7700e-004	5.9400e-004
tblVehicleEF	LDA	0.03	1.22
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	3.6980e-003	0.01
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	7.4800e-004	2.8490e-003
tblVehicleEF	LDA	0.02	0.07
tblVehicleEF	LDA	0.36	0.70
tblVehicleEF	LDA	1.57	3.25

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tblVehicleEF	LDA	209.26	281.69
tblVehicleEF	LDA	42.58	68.09
tblVehicleEF	LDA	3.0480e-003	4.6970e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	0.11	0.25
tblVehicleEF	LDA	0.04	7.1270e-003
tblVehicleEF	LDA	7.3200e-004	1.6660e-003
tblVehicleEF	LDA	9.5500e-004	2.0740e-003
tblVehicleEF	LDA	0.02	2.4940e-003
tblVehicleEF	LDA	6.7300e-004	1.5340e-003
tblVehicleEF	LDA	8.7800e-004	1.9070e-003
tblVehicleEF	LDA	0.01	1.35
tblVehicleEF	LDA	0.05	0.09
tblVehicleEF	LDA	2.3270e-003	0.01
tblVehicleEF	LDA	0.03	0.22
tblVehicleEF	LDA	0.09	0.33
tblVehicleEF	LDA	1.8840e-003	2.7840e-003
tblVehicleEF	LDA	3.8300e-004	6.7300e-004
tblVehicleEF	LDA	0.01	1.35
tblVehicleEF	LDA	0.05	0.09
tblVehicleEF	LDA	3.3750e-003	0.02
tblVehicleEF	LDA	0.03	0.22
tblVehicleEF	LDA	0.10	0.36
tblVehicleEF	LDT1	1.4080e-003	7.4770e-003
tblVehicleEF	LDT1	0.03	0.10
tblVehicleEF	LDT1	0.47	1.41
tblVehicleEF	LDT1	1.63	4.84
tblVehicleEF	LDT1	260.19	340.26

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tblVehicleEF	LDT1	53.01	83.40
tblVehicleEF	LDT1	3.4690e-003	9.3350e-003
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.03	0.12
tblVehicleEF	LDT1	0.14	0.37
tblVehicleEF	LDT1	0.04	9.2390e-003
tblVehicleEF	LDT1	8.9400e-004	2.1880e-003
tblVehicleEF	LDT1	1.1660e-003	2.7210e-003
tblVehicleEF	LDT1	0.02	3.2340e-003
tblVehicleEF	LDT1	8.2200e-004	2.0130e-003
tblVehicleEF	LDT1	1.0720e-003	2.5020e-003
tblVehicleEF	LDT1	0.04	3.05
tblVehicleEF	LDT1	0.09	0.18
tblVehicleEF	LDT1	5.1960e-003	0.03
tblVehicleEF	LDT1	0.05	0.53
tblVehicleEF	LDT1	0.12	0.51
tblVehicleEF	LDT1	2.3410e-003	3.3640e-003
tblVehicleEF	LDT1	4.7700e-004	8.2400e-004
tblVehicleEF	LDT1	0.04	3.05
tblVehicleEF	LDT1	0.09	0.18
tblVehicleEF	LDT1	7.5820e-003	0.05
tblVehicleEF	LDT1	0.05	0.53
tblVehicleEF	LDT1	0.13	0.56
tblVehicleEF	LDT1	1.5300e-003	7.4210e-003
tblVehicleEF	LDT1	0.03	0.10
tblVehicleEF	LDT1	0.52	1.43
tblVehicleEF	LDT1	1.35	4.70
tblVehicleEF	LDT1	272.49	341.45
tblVehicleEF	LDT1	52.48	83.03

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tblVehicleEF	LDT1	3.2420e-003	9.1450e-003
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.02	0.12
tblVehicleEF	LDT1	0.13	0.37
tblVehicleEF	LDT1	0.04	9.2400e-003
tblVehicleEF	LDT1	8.9400e-004	2.1720e-003
tblVehicleEF	LDT1	1.1660e-003	2.7020e-003
tblVehicleEF	LDT1	0.02	3.2340e-003
tblVehicleEF	LDT1	8.2200e-004	1.9980e-003
tblVehicleEF	LDT1	1.0720e-003	2.4850e-003
tblVehicleEF	LDT1	0.06	3.10
tblVehicleEF	LDT1	0.09	0.18
tblVehicleEF	LDT1	5.5870e-003	0.03
tblVehicleEF	LDT1	0.04	0.53
tblVehicleEF	LDT1	0.11	0.50
tblVehicleEF	LDT1	2.4520e-003	3.3760e-003
tblVehicleEF	LDT1	4.7200e-004	8.2100e-004
tblVehicleEF	LDT1	0.06	3.10
tblVehicleEF	LDT1	0.09	0.18
tblVehicleEF	LDT1	8.1520e-003	0.05
tblVehicleEF	LDT1	0.04	0.53
tblVehicleEF	LDT1	0.12	0.54
tblVehicleEF	LDT1	1.3790e-003	0.01
tblVehicleEF	LDT1	0.03	0.13
tblVehicleEF	LDT1	0.46	1.84
tblVehicleEF	LDT1	1.75	6.81
tblVehicleEF	LDT1	257.96	362.43
tblVehicleEF	LDT1	53.23	91.86
tblVehicleEF	LDT1	3.4940e-003	0.01

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.03	0.19
tblVehicleEF	LDT1	0.14	0.48
tblVehicleEF	LDT1	0.04	9.2870e-003
tblVehicleEF	LDT1	8.9400e-004	2.8810e-003
tblVehicleEF	LDT1	1.1660e-003	3.4250e-003
tblVehicleEF	LDT1	0.02	3.2500e-003
tblVehicleEF	LDT1	8.2200e-004	2.6510e-003
tblVehicleEF	LDT1	1.0720e-003	3.1490e-003
tblVehicleEF	LDT1	0.03	3.43
tblVehicleEF	LDT1	0.10	0.21
tblVehicleEF	LDT1	5.1100e-003	0.05
tblVehicleEF	LDT1	0.06	0.66
tblVehicleEF	LDT1	0.13	0.71
tblVehicleEF	LDT1	2.3210e-003	3.5830e-003
tblVehicleEF	LDT1	4.7900e-004	9.0800e-004
tblVehicleEF	LDT1	0.03	3.43
tblVehicleEF	LDT1	0.10	0.21
tblVehicleEF	LDT1	7.4550e-003	0.07
tblVehicleEF	LDT1	0.06	0.66
tblVehicleEF	LDT1	0.14	0.77
tblVehicleEF	LDT2	1.3510e-003	2.9450e-003
tblVehicleEF	LDT2	0.03	0.07
tblVehicleEF	LDT2	0.48	0.75
tblVehicleEF	LDT2	1.97	2.95
tblVehicleEF	LDT2	258.59	343.90
tblVehicleEF	LDT2	52.65	80.72
tblVehicleEF	LDT2	3.5460e-003	5.3400e-003
tblVehicleEF	LDT2	0.02	0.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT2	0.02	0.05
tblVehicleEF	LDT2	0.14	0.28
tblVehicleEF	LDT2	0.04	8.7990e-003
tblVehicleEF	LDT2	8.4200e-004	1.4140e-003
tblVehicleEF	LDT2	1.0220e-003	1.7750e-003
tblVehicleEF	LDT2	0.02	3.0800e-003
tblVehicleEF	LDT2	7.7600e-004	1.3010e-003
tblVehicleEF	LDT2	9.4000e-004	1.6320e-003
tblVehicleEF	LDT2	0.04	1.32
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	4.7870e-003	0.01
tblVehicleEF	LDT2	0.04	0.21
tblVehicleEF	LDT2	0.13	0.30
tblVehicleEF	LDT2	2.3280e-003	3.3990e-003
tblVehicleEF	LDT2	4.7400e-004	7.9800e-004
tblVehicleEF	LDT2	0.04	1.32
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	6.9380e-003	0.02
tblVehicleEF	LDT2	0.04	0.21
tblVehicleEF	LDT2	0.14	0.33
tblVehicleEF	LDT2	1.4700e-003	2.9320e-003
tblVehicleEF	LDT2	0.03	0.07
tblVehicleEF	LDT2	0.54	0.76
tblVehicleEF	LDT2	1.63	2.88
tblVehicleEF	LDT2	269.67	344.65
tblVehicleEF	LDT2	52.00	80.46
tblVehicleEF	LDT2	3.3370e-003	5.2550e-003
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.02	0.05

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tblVehicleEF	LDT2	0.12	0.27
tblVehicleEF	LDT2	0.04	8.7980e-003
tblVehicleEF	LDT2	8.4200e-004	1.4100e-003
tblVehicleEF	LDT2	1.0220e-003	1.7710e-003
tblVehicleEF	LDT2	0.02	3.0790e-003
tblVehicleEF	LDT2	7.7600e-004	1.2970e-003
tblVehicleEF	LDT2	9.4000e-004	1.6280e-003
tblVehicleEF	LDT2	0.06	1.34
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	5.1410e-003	0.01
tblVehicleEF	LDT2	0.03	0.21
tblVehicleEF	LDT2	0.11	0.30
tblVehicleEF	LDT2	2.4280e-003	3.4070e-003
tblVehicleEF	LDT2	4.6800e-004	7.9500e-004
tblVehicleEF	LDT2	0.06	1.34
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	7.4550e-003	0.02
tblVehicleEF	LDT2	0.03	0.21
tblVehicleEF	LDT2	0.12	0.32
tblVehicleEF	LDT2	1.3220e-003	4.0080e-003
tblVehicleEF	LDT2	0.03	0.09
tblVehicleEF	LDT2	0.47	0.90
tblVehicleEF	LDT2	2.12	4.00
tblVehicleEF	LDT2	256.59	375.58
tblVehicleEF	LDT2	52.91	90.06
tblVehicleEF	LDT2	3.5690e-003	6.9200e-003
tblVehicleEF	LDT2	0.02	0.04
tblVehicleEF	LDT2	0.03	0.08
tblVehicleEF	LDT2	0.14	0.37

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT2	0.04	8.8250e-003
tblVehicleEF	LDT2	8.4200e-004	1.7680e-003
tblVehicleEF	LDT2	1.0220e-003	2.1270e-003
tblVehicleEF	LDT2	0.02	3.0890e-003
tblVehicleEF	LDT2	7.7600e-004	1.6270e-003
tblVehicleEF	LDT2	9.4000e-004	1.9560e-003
tblVehicleEF	LDT2	0.03	1.45
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	4.7090e-003	0.02
tblVehicleEF	LDT2	0.04	0.24
tblVehicleEF	LDT2	0.14	0.42
tblVehicleEF	LDT2	2.3100e-003	3.7120e-003
tblVehicleEF	LDT2	4.7600e-004	8.9000e-004
tblVehicleEF	LDT2	0.03	1.45
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	6.8240e-003	0.02
tblVehicleEF	LDT2	0.04	0.24
tblVehicleEF	LDT2	0.15	0.46
tblVehicleEF	LHD1	3.4250e-003	0.06
tblVehicleEF	LHD1	4.4990e-003	6.3690e-003
tblVehicleEF	LHD1	6.3550e-003	0.02
tblVehicleEF	LHD1	0.16	2.53
tblVehicleEF	LHD1	0.42	0.70
tblVehicleEF	LHD1	0.73	1.82
tblVehicleEF	LHD1	8.05	114.95
tblVehicleEF	LHD1	643.53	686.69
tblVehicleEF	LHD1	8.38	14.76
tblVehicleEF	LHD1	7.9500e-004	9.1300e-003
tblVehicleEF	LHD1	0.04	0.04

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tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.05	0.68
tblVehicleEF	LHD1	0.24	0.62
tblVehicleEF	LHD1	0.17	0.33
tblVehicleEF	LHD1	1.0700e-003	0.01
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.01	9.5540e-003
tblVehicleEF	LHD1	6.8660e-003	0.02
tblVehicleEF	LHD1	1.6700e-004	1.6200e-004
tblVehicleEF	LHD1	1.0240e-003	9.5810e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5310e-003	2.3890e-003
tblVehicleEF	LHD1	6.5300e-003	0.01
tblVehicleEF	LHD1	1.5400e-004	1.4900e-004
tblVehicleEF	LHD1	9.3300e-004	1.52
tblVehicleEF	LHD1	0.04	0.02
tblVehicleEF	LHD1	0.01	0.26
tblVehicleEF	LHD1	0.07	0.08
tblVehicleEF	LHD1	0.08	0.13
tblVehicleEF	LHD1	0.03	0.08
tblVehicleEF	LHD1	7.8000e-005	1.1170e-003
tblVehicleEF	LHD1	6.2600e-003	6.6900e-003
tblVehicleEF	LHD1	8.3000e-005	1.4600e-004
tblVehicleEF	LHD1	9.3300e-004	1.52
tblVehicleEF	LHD1	0.04	0.02
tblVehicleEF	LHD1	0.02	0.37
tblVehicleEF	LHD1	0.09	0.10
tblVehicleEF	LHD1	0.08	0.13
tblVehicleEF	LHD1	0.03	0.09

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tblVehicleEF	LHD1	3.4320e-003	0.06
tblVehicleEF	LHD1	4.5330e-003	6.3150e-003
tblVehicleEF	LHD1	6.0940e-003	0.02
tblVehicleEF	LHD1	0.16	2.53
tblVehicleEF	LHD1	0.42	0.70
tblVehicleEF	LHD1	0.70	1.82
tblVehicleEF	LHD1	8.05	114.85
tblVehicleEF	LHD1	643.53	685.89
tblVehicleEF	LHD1	8.32	14.74
tblVehicleEF	LHD1	7.9600e-004	9.1300e-003
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.05	0.67
tblVehicleEF	LHD1	0.23	0.61
tblVehicleEF	LHD1	0.16	0.33
tblVehicleEF	LHD1	1.0700e-003	0.01
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.01	9.5550e-003
tblVehicleEF	LHD1	6.8660e-003	0.01
tblVehicleEF	LHD1	1.6700e-004	1.6000e-004
tblVehicleEF	LHD1	1.0240e-003	9.5850e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5310e-003	2.3890e-003
tblVehicleEF	LHD1	6.5300e-003	0.01
tblVehicleEF	LHD1	1.5400e-004	1.4700e-004
tblVehicleEF	LHD1	1.3550e-003	1.54
tblVehicleEF	LHD1	0.04	0.02
tblVehicleEF	LHD1	0.01	0.26
tblVehicleEF	LHD1	0.07	0.08

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD1	0.07	0.13
tblVehicleEF	LHD1	0.03	0.08
tblVehicleEF	LHD1	7.8000e-005	1.1160e-003
tblVehicleEF	LHD1	6.2600e-003	6.6820e-003
tblVehicleEF	LHD1	8.2000e-005	1.4600e-004
tblVehicleEF	LHD1	1.3550e-003	1.54
tblVehicleEF	LHD1	0.04	0.02
tblVehicleEF	LHD1	0.02	0.37
tblVehicleEF	LHD1	0.09	0.10
tblVehicleEF	LHD1	0.07	0.13
tblVehicleEF	LHD1	0.03	0.09
tblVehicleEF	LHD1	3.4220e-003	0.08
tblVehicleEF	LHD1	4.4840e-003	0.01
tblVehicleEF	LHD1	6.4730e-003	0.02
tblVehicleEF	LHD1	0.16	2.69
tblVehicleEF	LHD1	0.42	1.01
tblVehicleEF	LHD1	0.75	1.94
tblVehicleEF	LHD1	8.05	126.03
tblVehicleEF	LHD1	643.52	785.08
tblVehicleEF	LHD1	8.41	16.18
tblVehicleEF	LHD1	7.9400e-004	9.8600e-003
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.05	0.83
tblVehicleEF	LHD1	0.24	1.03
tblVehicleEF	LHD1	0.17	0.42
tblVehicleEF	LHD1	1.0700e-003	0.01
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.6600e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD1	6.8660e-003	0.02
tblVehicleEF	LHD1	1.6700e-004	2.3900e-004
tblVehicleEF	LHD1	1.0240e-003	9.9280e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5310e-003	2.4150e-003
tblVehicleEF	LHD1	6.5300e-003	0.02
tblVehicleEF	LHD1	1.5400e-004	2.2000e-004
tblVehicleEF	LHD1	8.0600e-004	1.93
tblVehicleEF	LHD1	0.04	0.03
tblVehicleEF	LHD1	0.01	0.31
tblVehicleEF	LHD1	0.07	0.12
tblVehicleEF	LHD1	0.09	0.18
tblVehicleEF	LHD1	0.03	0.11
tblVehicleEF	LHD1	7.8000e-005	1.2250e-003
tblVehicleEF	LHD1	6.2600e-003	7.6540e-003
tblVehicleEF	LHD1	8.3000e-005	1.6000e-004
tblVehicleEF	LHD1	8.0600e-004	1.93
tblVehicleEF	LHD1	0.04	0.03
tblVehicleEF	LHD1	0.02	0.44
tblVehicleEF	LHD1	0.09	0.15
tblVehicleEF	LHD1	0.09	0.18
tblVehicleEF	LHD1	0.03	0.12
tblVehicleEF	LHD2	2.2940e-003	0.04
tblVehicleEF	LHD2	4.9830e-003	5.7410e-003
tblVehicleEF	LHD2	3.6980e-003	9.6360e-003
tblVehicleEF	LHD2	0.13	1.83
tblVehicleEF	LHD2	0.48	0.47
tblVehicleEF	LHD2	0.43	1.02
tblVehicleEF	LHD2	12.60	170.75

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	647.55	741.80
tblVehicleEF	LHD2	5.91	8.39
tblVehicleEF	LHD2	1.6340e-003	0.02
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	9.8400e-003	0.02
tblVehicleEF	LHD2	0.07	1.05
tblVehicleEF	LHD2	0.29	0.72
tblVehicleEF	LHD2	0.11	0.19
tblVehicleEF	LHD2	1.4980e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.7000e-005	6.9000e-005
tblVehicleEF	LHD2	1.4330e-003	0.02
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7180e-003	2.6390e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.9000e-005	6.4000e-005
tblVehicleEF	LHD2	5.0100e-004	0.83
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	0.01	0.19
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.05
tblVehicleEF	LHD2	1.2000e-004	1.6370e-003
tblVehicleEF	LHD2	6.2430e-003	7.1400e-003
tblVehicleEF	LHD2	5.8000e-005	8.3000e-005
tblVehicleEF	LHD2	5.0100e-004	0.83
tblVehicleEF	LHD2	0.02	0.01

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	0.02	0.26
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.05
tblVehicleEF	LHD2	2.2980e-003	0.04
tblVehicleEF	LHD2	5.0000e-003	5.7050e-003
tblVehicleEF	LHD2	3.5470e-003	9.5460e-003
tblVehicleEF	LHD2	0.13	1.83
tblVehicleEF	LHD2	0.48	0.47
tblVehicleEF	LHD2	0.41	1.02
tblVehicleEF	LHD2	12.60	170.68
tblVehicleEF	LHD2	647.55	741.19
tblVehicleEF	LHD2	5.87	8.36
tblVehicleEF	LHD2	1.6350e-003	0.02
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	9.5370e-003	0.02
tblVehicleEF	LHD2	0.07	1.05
tblVehicleEF	LHD2	0.28	0.71
tblVehicleEF	LHD2	0.10	0.19
tblVehicleEF	LHD2	1.4980e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.7000e-005	6.8000e-005
tblVehicleEF	LHD2	1.4330e-003	0.02
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7180e-003	2.6400e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.9000e-005	6.3000e-005

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	7.2700e-004	0.84
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	0.01	0.19
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.05
tblVehicleEF	LHD2	1.2000e-004	1.6360e-003
tblVehicleEF	LHD2	6.2440e-003	7.1340e-003
tblVehicleEF	LHD2	5.8000e-005	8.3000e-005
tblVehicleEF	LHD2	7.2700e-004	0.84
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	0.02	0.26
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.05
tblVehicleEF	LHD2	2.2920e-003	0.05
tblVehicleEF	LHD2	4.9750e-003	8.1630e-003
tblVehicleEF	LHD2	3.7660e-003	0.01
tblVehicleEF	LHD2	0.13	2.01
tblVehicleEF	LHD2	0.48	0.65
tblVehicleEF	LHD2	0.44	1.17
tblVehicleEF	LHD2	12.60	185.66
tblVehicleEF	LHD2	647.54	843.22
tblVehicleEF	LHD2	5.93	9.91
tblVehicleEF	LHD2	1.6340e-003	0.02
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.07	1.29
tblVehicleEF	LHD2	0.29	1.11

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	0.11	0.26
tblVehicleEF	LHD2	1.4980e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.03
tblVehicleEF	LHD2	9.7000e-005	1.1000e-004
tblVehicleEF	LHD2	1.4330e-003	0.02
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7180e-003	2.6710e-003
tblVehicleEF	LHD2	0.01	0.03
tblVehicleEF	LHD2	8.9000e-005	1.0100e-004
tblVehicleEF	LHD2	4.2100e-004	1.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.01	0.23
tblVehicleEF	LHD2	0.10	0.14
tblVehicleEF	LHD2	0.04	0.08
tblVehicleEF	LHD2	0.02	0.07
tblVehicleEF	LHD2	1.2000e-004	1.7810e-003
tblVehicleEF	LHD2	6.2430e-003	8.1260e-003
tblVehicleEF	LHD2	5.9000e-005	9.8000e-005
tblVehicleEF	LHD2	4.2100e-004	1.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.02	0.32
tblVehicleEF	LHD2	0.11	0.16
tblVehicleEF	LHD2	0.04	0.08
tblVehicleEF	LHD2	0.02	0.07
tblVehicleEF	MCY	0.35	0.20
tblVehicleEF	MCY	0.23	0.16
tblVehicleEF	MCY	18.43	13.05

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tblVehicleEF	MCY	8.83	7.68
tblVehicleEF	MCY	219.73	203.25
tblVehicleEF	MCY	58.02	45.52
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	7.1880e-003
tblVehicleEF	MCY	1.14	0.56
tblVehicleEF	MCY	0.27	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.3980e-003	2.4700e-003
tblVehicleEF	MCY	2.7840e-003	3.3630e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.2360e-003	2.3070e-003
tblVehicleEF	MCY	2.6000e-003	3.1550e-003
tblVehicleEF	MCY	0.95	4.15
tblVehicleEF	MCY	0.70	3.60
tblVehicleEF	MCY	2.32	1.27
tblVehicleEF	MCY	0.39	3.78
tblVehicleEF	MCY	1.78	1.21
tblVehicleEF	MCY	2.1740e-003	2.0090e-003
tblVehicleEF	MCY	5.7400e-004	4.5000e-004
tblVehicleEF	MCY	0.95	4.15
tblVehicleEF	MCY	0.70	3.60
tblVehicleEF	MCY	2.91	1.55
tblVehicleEF	MCY	0.39	3.78
tblVehicleEF	MCY	1.94	1.31
tblVehicleEF	MCY	0.34	0.19
tblVehicleEF	MCY	0.21	0.16
tblVehicleEF	MCY	17.64	13.00
tblVehicleEF	MCY	7.84	7.61

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MCY	218.28	203.17
tblVehicleEF	MCY	55.72	45.29
tblVehicleEF	MCY	0.06	0.04
tblVehicleEF	MCY	0.01	7.1420e-003
tblVehicleEF	MCY	1.03	0.56
tblVehicleEF	MCY	0.25	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.3980e-003	2.4710e-003
tblVehicleEF	MCY	2.7840e-003	3.3530e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.2360e-003	2.3090e-003
tblVehicleEF	MCY	2.6000e-003	3.1450e-003
tblVehicleEF	MCY	1.53	4.26
tblVehicleEF	MCY	0.81	3.61
tblVehicleEF	MCY	2.26	1.27
tblVehicleEF	MCY	0.35	3.77
tblVehicleEF	MCY	1.56	1.19
tblVehicleEF	MCY	2.1600e-003	2.0090e-003
tblVehicleEF	MCY	5.5100e-004	4.4800e-004
tblVehicleEF	MCY	1.53	4.26
tblVehicleEF	MCY	0.81	3.61
tblVehicleEF	MCY	2.84	1.54
tblVehicleEF	MCY	0.35	3.77
tblVehicleEF	MCY	1.70	1.30
tblVehicleEF	MCY	0.35	0.21
tblVehicleEF	MCY	0.25	0.19
tblVehicleEF	MCY	18.98	14.65
tblVehicleEF	MCY	9.31	8.20
tblVehicleEF	MCY	220.72	205.59

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MCY	59.15	50.21
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	8.5500e-003
tblVehicleEF	MCY	1.15	0.62
tblVehicleEF	MCY	0.27	0.15
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.3980e-003	2.3570e-003
tblVehicleEF	MCY	2.7840e-003	3.5430e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.2360e-003	2.2070e-003
tblVehicleEF	MCY	2.6000e-003	3.3360e-003
tblVehicleEF	MCY	0.87	4.02
tblVehicleEF	MCY	0.92	3.58
tblVehicleEF	MCY	2.35	1.44
tblVehicleEF	MCY	0.47	4.05
tblVehicleEF	MCY	1.89	1.43
tblVehicleEF	MCY	2.1840e-003	2.0320e-003
tblVehicleEF	MCY	5.8500e-004	4.9600e-004
tblVehicleEF	MCY	0.87	4.02
tblVehicleEF	MCY	0.92	3.58
tblVehicleEF	MCY	2.94	1.72
tblVehicleEF	MCY	0.47	4.05
tblVehicleEF	MCY	2.06	1.55
tblVehicleEF	MDV	1.3140e-003	3.5470e-003
tblVehicleEF	MDV	0.03	0.08
tblVehicleEF	MDV	0.46	0.81
tblVehicleEF	MDV	1.98	3.14
tblVehicleEF	MDV	312.36	413.72
tblVehicleEF	MDV	62.69	96.88

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MDV	4.6900e-003	6.9070e-003
tblVehicleEF	MDV	0.02	0.04
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	0.14	0.33
tblVehicleEF	MDV	0.04	8.8900e-003
tblVehicleEF	MDV	8.2100e-004	1.4410e-003
tblVehicleEF	MDV	1.0180e-003	1.7910e-003
tblVehicleEF	MDV	0.02	3.1120e-003
tblVehicleEF	MDV	7.5700e-004	1.3280e-003
tblVehicleEF	MDV	9.3600e-004	1.6460e-003
tblVehicleEF	MDV	0.05	1.59
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	4.6820e-003	0.01
tblVehicleEF	MDV	0.04	0.26
tblVehicleEF	MDV	0.14	0.38
tblVehicleEF	MDV	2.8150e-003	4.0870e-003
tblVehicleEF	MDV	5.6400e-004	9.5800e-004
tblVehicleEF	MDV	0.05	1.59
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	6.7670e-003	0.02
tblVehicleEF	MDV	0.04	0.26
tblVehicleEF	MDV	0.15	0.41
tblVehicleEF	MDV	1.4300e-003	3.5160e-003
tblVehicleEF	MDV	0.03	0.08
tblVehicleEF	MDV	0.52	0.82
tblVehicleEF	MDV	1.64	3.06
tblVehicleEF	MDV	323.20	414.37
tblVehicleEF	MDV	62.04	96.57
tblVehicleEF	MDV	4.4850e-003	6.7840e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MDV	0.02	0.04
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	0.13	0.33
tblVehicleEF	MDV	0.04	8.8890e-003
tblVehicleEF	MDV	8.2100e-004	1.4340e-003
tblVehicleEF	MDV	1.0180e-003	1.7810e-003
tblVehicleEF	MDV	0.02	3.1110e-003
tblVehicleEF	MDV	7.5700e-004	1.3220e-003
tblVehicleEF	MDV	9.3600e-004	1.6380e-003
tblVehicleEF	MDV	0.07	1.61
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	5.0240e-003	0.01
tblVehicleEF	MDV	0.03	0.26
tblVehicleEF	MDV	0.12	0.37
tblVehicleEF	MDV	2.9130e-003	4.0940e-003
tblVehicleEF	MDV	5.5800e-004	9.5500e-004
tblVehicleEF	MDV	0.07	1.61
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	7.2660e-003	0.02
tblVehicleEF	MDV	0.03	0.26
tblVehicleEF	MDV	0.13	0.40
tblVehicleEF	MDV	1.2860e-003	5.3930e-003
tblVehicleEF	MDV	0.03	0.11
tblVehicleEF	MDV	0.45	1.06
tblVehicleEF	MDV	2.12	4.42
tblVehicleEF	MDV	310.40	455.28
tblVehicleEF	MDV	62.96	108.53
tblVehicleEF	MDV	4.7130e-003	9.7720e-003
tblVehicleEF	MDV	0.02	0.04

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MDV	0.02	0.12
tblVehicleEF	MDV	0.15	0.48
tblVehicleEF	MDV	0.04	8.9880e-003
tblVehicleEF	MDV	8.2100e-004	1.8920e-003
tblVehicleEF	MDV	1.0180e-003	2.2530e-003
tblVehicleEF	MDV	0.02	3.1460e-003
tblVehicleEF	MDV	7.5700e-004	1.7460e-003
tblVehicleEF	MDV	9.3600e-004	2.0720e-003
tblVehicleEF	MDV	0.04	1.79
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	4.6060e-003	0.02
tblVehicleEF	MDV	0.05	0.30
tblVehicleEF	MDV	0.15	0.57
tblVehicleEF	MDV	2.7980e-003	4.4980e-003
tblVehicleEF	MDV	5.6700e-004	1.0730e-003
tblVehicleEF	MDV	0.04	1.79
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	6.6560e-003	0.03
tblVehicleEF	MDV	0.05	0.30
tblVehicleEF	MDV	0.16	0.63
tblVehicleEF	MH	4.6040e-003	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.27	0.94
tblVehicleEF	MH	1.44	2.11
tblVehicleEF	MH	1,315.89	1,670.37
tblVehicleEF	MH	14.31	21.04
tblVehicleEF	MH	0.05	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.15	1.58

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MH	0.24	0.31
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	1.8900e-004	2.5800e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.3170e-003	3.3220e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	1.7400e-004	2.3800e-004
tblVehicleEF	MH	0.29	2.95
tblVehicleEF	MH	0.02	7.37
tblVehicleEF	MH	0.04	0.08
tblVehicleEF	MH	3.2260e-003	0.17
tblVehicleEF	MH	0.07	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.4200e-004	2.0800e-004
tblVehicleEF	MH	0.29	2.95
tblVehicleEF	MH	0.02	7.37
tblVehicleEF	MH	0.05	0.10
tblVehicleEF	MH	3.2260e-003	0.17
tblVehicleEF	MH	0.07	0.11
tblVehicleEF	MH	4.6750e-003	9.9380e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.27	0.91
tblVehicleEF	MH	1.35	2.08
tblVehicleEF	MH	1,315.90	1,669.46
tblVehicleEF	MH	14.16	20.96
tblVehicleEF	MH	0.05	0.07
tblVehicleEF	MH	0.03	0.03

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MH	1.10	1.57
tblVehicleEF	MH	0.23	0.31
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	1.8900e-004	2.5500e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.3170e-003	3.3230e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	1.7400e-004	2.3500e-004
tblVehicleEF	MH	0.40	3.00
tblVehicleEF	MH	0.02	7.35
tblVehicleEF	MH	0.04	0.07
tblVehicleEF	MH	3.1210e-003	0.17
tblVehicleEF	MH	0.06	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.4000e-004	2.0700e-004
tblVehicleEF	MH	0.40	3.00
tblVehicleEF	MH	0.02	7.35
tblVehicleEF	MH	0.05	0.10
tblVehicleEF	MH	3.1210e-003	0.17
tblVehicleEF	MH	0.07	0.11
tblVehicleEF	MH	4.5730e-003	0.01
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.26	1.61
tblVehicleEF	MH	1.48	2.57
tblVehicleEF	MH	1,315.89	1,699.67
tblVehicleEF	MH	14.39	22.98
tblVehicleEF	MH	0.05	0.07

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.14	1.69
tblVehicleEF	MH	0.25	0.30
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.04
tblVehicleEF	MH	1.8900e-004	3.1900e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.3170e-003	3.2890e-003
tblVehicleEF	MH	0.02	0.04
tblVehicleEF	MH	1.7400e-004	2.9400e-004
tblVehicleEF	MH	0.26	3.41
tblVehicleEF	MH	0.02	9.37
tblVehicleEF	MH	0.04	0.10
tblVehicleEF	MH	3.5200e-003	0.22
tblVehicleEF	MH	0.07	0.12
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.4200e-004	2.2700e-004
tblVehicleEF	MH	0.26	3.41
tblVehicleEF	MH	0.02	9.37
tblVehicleEF	MH	0.05	0.13
tblVehicleEF	MH	3.5200e-003	0.22
tblVehicleEF	MH	0.08	0.13
tblVehicleEF	MHD	3.8780e-003	0.25
tblVehicleEF	MHD	9.2700e-004	0.01
tblVehicleEF	MHD	8.2820e-003	9.5600e-003
tblVehicleEF	MHD	0.41	8.81
tblVehicleEF	MHD	0.14	0.30
tblVehicleEF	MHD	0.79	1.07

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tblVehicleEF	MHD	63.64	1,724.30
tblVehicleEF	MHD	937.84	1,131.79
tblVehicleEF	MHD	8.13	9.53
tblVehicleEF	MHD	9.1740e-003	0.26
tblVehicleEF	MHD	0.12	0.13
tblVehicleEF	MHD	8.0270e-003	6.7900e-003
tblVehicleEF	MHD	0.34	8.99
tblVehicleEF	MHD	1.36	0.76
tblVehicleEF	MHD	1.70	1.17
tblVehicleEF	MHD	1.1300e-004	0.01
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	6.6470e-003	7.1540e-003
tblVehicleEF	MHD	1.1000e-004	1.1500e-004
tblVehicleEF	MHD	1.0800e-004	0.01
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.3510e-003	6.8340e-003
tblVehicleEF	MHD	1.0100e-004	1.0500e-004
tblVehicleEF	MHD	2.5800e-004	0.55
tblVehicleEF	MHD	0.01	6.3890e-003
tblVehicleEF	MHD	0.02	0.37
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	6.0400e-004	0.02
tblVehicleEF	MHD	8.9560e-003	0.01
tblVehicleEF	MHD	8.0000e-005	9.4000e-005
tblVehicleEF	MHD	2.5800e-004	0.55
tblVehicleEF	MHD	0.01	6.3890e-003
tblVehicleEF	MHD	0.03	0.68

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	3.6940e-003	0.25
tblVehicleEF	MHD	9.4200e-004	0.01
tblVehicleEF	MHD	7.9330e-003	9.4740e-003
tblVehicleEF	MHD	0.35	8.74
tblVehicleEF	MHD	0.14	0.29
tblVehicleEF	MHD	0.74	1.06
tblVehicleEF	MHD	63.20	1,721.96
tblVehicleEF	MHD	937.84	1,131.13
tblVehicleEF	MHD	8.05	9.48
tblVehicleEF	MHD	9.0740e-003	0.26
tblVehicleEF	MHD	0.12	0.13
tblVehicleEF	MHD	7.7830e-003	6.7670e-003
tblVehicleEF	MHD	0.32	8.89
tblVehicleEF	MHD	1.31	0.73
tblVehicleEF	MHD	1.69	1.18
tblVehicleEF	MHD	9.9000e-005	0.01
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	6.6470e-003	6.9530e-003
tblVehicleEF	MHD	1.1000e-004	1.1300e-004
tblVehicleEF	MHD	9.4000e-005	0.01
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.3510e-003	6.6410e-003
tblVehicleEF	MHD	1.0100e-004	1.0400e-004
tblVehicleEF	MHD	3.7700e-004	0.55
tblVehicleEF	MHD	0.01	6.3370e-003
tblVehicleEF	MHD	0.02	0.37

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	6.0000e-004	0.02
tblVehicleEF	MHD	8.9560e-003	0.01
tblVehicleEF	MHD	8.0000e-005	9.4000e-005
tblVehicleEF	MHD	3.7700e-004	0.55
tblVehicleEF	MHD	0.01	6.3370e-003
tblVehicleEF	MHD	0.02	0.68
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	4.1460e-003	0.28
tblVehicleEF	MHD	9.1900e-004	0.02
tblVehicleEF	MHD	8.4160e-003	0.01
tblVehicleEF	MHD	0.49	11.28
tblVehicleEF	MHD	0.13	0.56
tblVehicleEF	MHD	0.81	1.58
tblVehicleEF	MHD	64.24	1,887.62
tblVehicleEF	MHD	937.84	1,285.82
tblVehicleEF	MHD	8.17	12.26
tblVehicleEF	MHD	9.3150e-003	0.28
tblVehicleEF	MHD	0.12	0.15
tblVehicleEF	MHD	8.1720e-003	8.5840e-003
tblVehicleEF	MHD	0.36	10.83
tblVehicleEF	MHD	1.36	1.19
tblVehicleEF	MHD	1.70	1.30
tblVehicleEF	MHD	1.3200e-004	0.03
tblVehicleEF	MHD	0.13	0.05

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	6.6470e-003	0.01
tblVehicleEF	MHD	1.1000e-004	1.5600e-004
tblVehicleEF	MHD	1.2700e-004	0.03
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.3510e-003	0.01
tblVehicleEF	MHD	1.0100e-004	1.4300e-004
tblVehicleEF	MHD	2.1800e-004	0.83
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.02	0.46
tblVehicleEF	MHD	0.01	0.05
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	6.0900e-004	0.02
tblVehicleEF	MHD	8.9560e-003	0.01
tblVehicleEF	MHD	8.1000e-005	1.2100e-004
tblVehicleEF	MHD	2.1800e-004	0.83
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.03	0.82
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	OBUS	8.8730e-003	0.26
tblVehicleEF	OBUS	3.0810e-003	0.05
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.69	9.17
tblVehicleEF	OBUS	0.32	1.04
tblVehicleEF	OBUS	2.05	2.76
tblVehicleEF	OBUS	91.22	1,193.58
tblVehicleEF	OBUS	1,279.50	1,469.43

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tblVehicleEF	OBUS	16.88	20.95
tblVehicleEF	OBUS	0.01	0.15
tblVehicleEF	OBUS	0.09	0.12
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.41	3.95
tblVehicleEF	OBUS	1.10	1.01
tblVehicleEF	OBUS	0.81	0.69
tblVehicleEF	OBUS	1.4100e-004	4.6030e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	8.2400e-003	0.02
tblVehicleEF	OBUS	2.1700e-004	2.3600e-004
tblVehicleEF	OBUS	1.3500e-004	4.3990e-003
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.8580e-003	0.02
tblVehicleEF	OBUS	2.0000e-004	2.1700e-004
tblVehicleEF	OBUS	1.4780e-003	2.46
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.06	0.83
tblVehicleEF	OBUS	0.02	0.07
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	0.10	0.13
tblVehicleEF	OBUS	8.6700e-004	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.6700e-004	2.0700e-004
tblVehicleEF	OBUS	1.4780e-003	2.46
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.08	1.22
tblVehicleEF	OBUS	0.03	0.13
tblVehicleEF	OBUS	0.09	0.10

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	0.11	0.14
tblVehicleEF	OBUS	8.9810e-003	0.26
tblVehicleEF	OBUS	3.1560e-003	0.05
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.69	9.20
tblVehicleEF	OBUS	0.32	1.03
tblVehicleEF	OBUS	1.92	2.74
tblVehicleEF	OBUS	90.17	1,193.76
tblVehicleEF	OBUS	1,279.51	1,468.06
tblVehicleEF	OBUS	16.65	20.88
tblVehicleEF	OBUS	0.01	0.15
tblVehicleEF	OBUS	0.09	0.12
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.39	3.91
tblVehicleEF	OBUS	1.06	0.99
tblVehicleEF	OBUS	0.80	0.69
tblVehicleEF	OBUS	1.2500e-004	4.5380e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	8.2400e-003	0.02
tblVehicleEF	OBUS	2.1700e-004	2.3500e-004
tblVehicleEF	OBUS	1.2000e-004	4.3370e-003
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.8580e-003	0.02
tblVehicleEF	OBUS	2.0000e-004	2.1600e-004
tblVehicleEF	OBUS	2.0740e-003	2.51
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.83
tblVehicleEF	OBUS	0.02	0.07
tblVehicleEF	OBUS	0.08	0.10

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	0.10	0.13
tblVehicleEF	OBUS	8.5700e-004	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.6500e-004	2.0600e-004
tblVehicleEF	OBUS	2.0740e-003	2.51
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.08	1.22
tblVehicleEF	OBUS	0.03	0.13
tblVehicleEF	OBUS	0.08	0.10
tblVehicleEF	OBUS	0.10	0.14
tblVehicleEF	OBUS	8.7450e-003	0.26
tblVehicleEF	OBUS	3.0480e-003	0.05
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.70	8.66
tblVehicleEF	OBUS	0.31	1.54
tblVehicleEF	OBUS	2.11	3.36
tblVehicleEF	OBUS	92.68	1,099.60
tblVehicleEF	OBUS	1,279.49	1,620.27
tblVehicleEF	OBUS	16.98	24.35
tblVehicleEF	OBUS	0.01	0.13
tblVehicleEF	OBUS	0.09	0.13
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.44	3.99
tblVehicleEF	OBUS	1.10	1.19
tblVehicleEF	OBUS	0.82	0.69
tblVehicleEF	OBUS	1.6200e-004	6.0400e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	8.2400e-003	0.02
tblVehicleEF	OBUS	2.1700e-004	2.7700e-004

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	1.5500e-004	5.7740e-003
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.8580e-003	0.02
tblVehicleEF	OBUS	2.0000e-004	2.5500e-004
tblVehicleEF	OBUS	1.3410e-003	2.53
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.80
tblVehicleEF	OBUS	0.02	0.09
tblVehicleEF	OBUS	0.09	0.11
tblVehicleEF	OBUS	0.10	0.16
tblVehicleEF	OBUS	8.8100e-004	0.01
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	1.6800e-004	2.4100e-004
tblVehicleEF	OBUS	1.3410e-003	2.53
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.07	1.20
tblVehicleEF	OBUS	0.03	0.17
tblVehicleEF	OBUS	0.09	0.11
tblVehicleEF	OBUS	0.11	0.17
tblVehicleEF	SBUS	0.07	0.24
tblVehicleEF	SBUS	2.3430e-003	0.03
tblVehicleEF	SBUS	5.2140e-003	2.9830e-003
tblVehicleEF	SBUS	2.90	7.19
tblVehicleEF	SBUS	0.19	0.81
tblVehicleEF	SBUS	0.68	0.40
tblVehicleEF	SBUS	302.91	2,099.51
tblVehicleEF	SBUS	872.35	960.38
tblVehicleEF	SBUS	4.15	2.07
tblVehicleEF	SBUS	0.04	0.32

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	0.10	0.13
tblVehicleEF	SBUS	5.0520e-003	2.0080e-003
tblVehicleEF	SBUS	1.85	21.13
tblVehicleEF	SBUS	1.79	3.27
tblVehicleEF	SBUS	1.58	0.42
tblVehicleEF	SBUS	9.3500e-004	0.02
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	7.5000e-005	2.6000e-005
tblVehicleEF	SBUS	8.9400e-004	0.02
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.6630e-003	2.7230e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	6.9000e-005	2.4000e-005
tblVehicleEF	SBUS	5.9300e-004	0.10
tblVehicleEF	SBUS	5.4870e-003	5.9700e-003
tblVehicleEF	SBUS	0.30	0.53
tblVehicleEF	SBUS	0.03	0.07
tblVehicleEF	SBUS	0.01	0.14
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	2.8870e-003	0.02
tblVehicleEF	SBUS	8.3510e-003	9.0850e-003
tblVehicleEF	SBUS	4.1000e-005	2.0000e-005
tblVehicleEF	SBUS	5.9300e-004	0.10
tblVehicleEF	SBUS	5.4870e-003	5.9700e-003
tblVehicleEF	SBUS	0.43	0.86
tblVehicleEF	SBUS	0.04	0.11
tblVehicleEF	SBUS	0.01	0.14

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	0.07	0.24
tblVehicleEF	SBUS	2.3720e-003	0.03
tblVehicleEF	SBUS	4.5400e-003	2.9490e-003
tblVehicleEF	SBUS	2.87	7.18
tblVehicleEF	SBUS	0.19	0.81
tblVehicleEF	SBUS	0.53	0.39
tblVehicleEF	SBUS	303.80	2,104.57
tblVehicleEF	SBUS	872.35	959.76
tblVehicleEF	SBUS	3.90	2.05
tblVehicleEF	SBUS	0.04	0.32
tblVehicleEF	SBUS	0.10	0.13
tblVehicleEF	SBUS	4.8460e-003	2.0090e-003
tblVehicleEF	SBUS	1.83	21.12
tblVehicleEF	SBUS	1.73	3.23
tblVehicleEF	SBUS	1.58	0.42
tblVehicleEF	SBUS	8.0000e-004	0.02
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	7.5000e-005	2.6000e-005
tblVehicleEF	SBUS	7.6600e-004	0.02
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.6630e-003	2.7230e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	6.9000e-005	2.4000e-005
tblVehicleEF	SBUS	8.4200e-004	0.11
tblVehicleEF	SBUS	5.5860e-003	5.9570e-003
tblVehicleEF	SBUS	0.30	0.53

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	0.03	0.07
tblVehicleEF	SBUS	8.7490e-003	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.8960e-003	0.02
tblVehicleEF	SBUS	8.3510e-003	9.0790e-003
tblVehicleEF	SBUS	3.9000e-005	2.0000e-005
tblVehicleEF	SBUS	8.4200e-004	0.11
tblVehicleEF	SBUS	5.5860e-003	5.9570e-003
tblVehicleEF	SBUS	0.43	0.86
tblVehicleEF	SBUS	0.04	0.11
tblVehicleEF	SBUS	8.7490e-003	0.14
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	0.07	0.20
tblVehicleEF	SBUS	2.3290e-003	0.03
tblVehicleEF	SBUS	5.5480e-003	3.5710e-003
tblVehicleEF	SBUS	2.92	6.71
tblVehicleEF	SBUS	0.19	1.34
tblVehicleEF	SBUS	0.75	0.57
tblVehicleEF	SBUS	301.67	2,191.16
tblVehicleEF	SBUS	872.35	1,071.53
tblVehicleEF	SBUS	4.27	2.33
tblVehicleEF	SBUS	0.04	0.34
tblVehicleEF	SBUS	0.10	0.15
tblVehicleEF	SBUS	5.1840e-003	1.8230e-003
tblVehicleEF	SBUS	1.87	26.46
tblVehicleEF	SBUS	1.79	5.32
tblVehicleEF	SBUS	1.58	0.35
tblVehicleEF	SBUS	1.1200e-003	0.04
tblVehicleEF	SBUS	0.74	0.04

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.03
tblVehicleEF	SBUS	7.5000e-005	2.8000e-005
tblVehicleEF	SBUS	1.0720e-003	0.04
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.6630e-003	2.7500e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	6.9000e-005	2.6000e-005
tblVehicleEF	SBUS	5.3200e-004	0.13
tblVehicleEF	SBUS	5.6720e-003	8.5790e-003
tblVehicleEF	SBUS	0.30	0.52
tblVehicleEF	SBUS	0.03	0.11
tblVehicleEF	SBUS	0.01	0.20
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	2.8760e-003	0.02
tblVehicleEF	SBUS	8.3510e-003	0.01
tblVehicleEF	SBUS	4.2000e-005	2.3000e-005
tblVehicleEF	SBUS	5.3200e-004	0.13
tblVehicleEF	SBUS	5.6720e-003	8.5790e-003
tblVehicleEF	SBUS	0.43	0.82
tblVehicleEF	SBUS	0.04	0.16
tblVehicleEF	SBUS	0.01	0.20
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	UBUS	4.89	2.27
tblVehicleEF	UBUS	0.02	5.3340e-003
tblVehicleEF	UBUS	38.17	29.02
tblVehicleEF	UBUS	1.23	0.76
tblVehicleEF	UBUS	1,847.16	1,072.80
tblVehicleEF	UBUS	12.31	5.22

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	UBUS	0.31	0.20
tblVehicleEF	UBUS	0.01	7.7200e-003
tblVehicleEF	UBUS	0.41	0.16
tblVehicleEF	UBUS	0.13	0.05
tblVehicleEF	UBUS	0.07	0.10
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1080e-003	3.0700e-004
tblVehicleEF	UBUS	1.7900e-004	2.6000e-005
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9520e-003	2.8900e-004
tblVehicleEF	UBUS	1.6400e-004	2.4000e-005
tblVehicleEF	UBUS	6.2300e-004	0.06
tblVehicleEF	UBUS	7.6320e-003	4.5170e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	1.3090e-003	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	3.2090e-003	9.5100e-004
tblVehicleEF	UBUS	1.2200e-004	5.2000e-005
tblVehicleEF	UBUS	6.2300e-004	0.06
tblVehicleEF	UBUS	7.6320e-003	4.5170e-003
tblVehicleEF	UBUS	5.00	2.32
tblVehicleEF	UBUS	1.3090e-003	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	4.89	2.29
tblVehicleEF	UBUS	0.01	5.2980e-003
tblVehicleEF	UBUS	38.17	29.21
tblVehicleEF	UBUS	1.06	0.75
tblVehicleEF	UBUS	1,847.17	1,072.31

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	UBUS	12.03	5.21
tblVehicleEF	UBUS	0.31	0.20
tblVehicleEF	UBUS	0.01	7.7000e-003
tblVehicleEF	UBUS	0.40	0.15
tblVehicleEF	UBUS	0.12	0.05
tblVehicleEF	UBUS	0.07	0.10
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1080e-003	3.0800e-004
tblVehicleEF	UBUS	1.7900e-004	2.6000e-005
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9520e-003	2.9000e-004
tblVehicleEF	UBUS	1.6400e-004	2.4000e-005
tblVehicleEF	UBUS	8.8200e-004	0.06
tblVehicleEF	UBUS	8.1320e-003	4.5490e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	1.1930e-003	0.01
tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	3.2090e-003	9.5100e-004
tblVehicleEF	UBUS	1.1900e-004	5.2000e-005
tblVehicleEF	UBUS	8.8200e-004	0.06
tblVehicleEF	UBUS	8.1320e-003	4.5490e-003
tblVehicleEF	UBUS	5.00	2.34
tblVehicleEF	UBUS	1.1930e-003	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	4.89	2.14
tblVehicleEF	UBUS	0.02	8.1080e-003
tblVehicleEF	UBUS	38.17	30.34
tblVehicleEF	UBUS	1.30	0.80

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	UBUS	1,847.16	1,438.99
tblVehicleEF	UBUS	12.44	5.83
tblVehicleEF	UBUS	0.31	0.27
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.41	0.32
tblVehicleEF	UBUS	0.13	0.08
tblVehicleEF	UBUS	0.07	0.11
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1080e-003	2.9200e-004
tblVehicleEF	UBUS	1.7900e-004	2.1000e-005
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9520e-003	2.7500e-004
tblVehicleEF	UBUS	1.6400e-004	1.9000e-005
tblVehicleEF	UBUS	5.6100e-004	0.09
tblVehicleEF	UBUS	8.5450e-003	8.2650e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	1.5910e-003	0.01
tblVehicleEF	UBUS	0.06	0.03
tblVehicleEF	UBUS	3.2090e-003	1.0580e-003
tblVehicleEF	UBUS	1.2300e-004	5.8000e-005
tblVehicleEF	UBUS	5.6100e-004	0.09
tblVehicleEF	UBUS	8.5450e-003	8.2650e-003
tblVehicleEF	UBUS	5.00	2.19
tblVehicleEF	UBUS	1.5910e-003	0.01
tblVehicleEF	UBUS	0.07	0.03

2.0 Emissions Summary

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.3278	2.5648	2.7929	0.0116	0.0209	0.0940	0.1149	5.6100e-003	0.0891	0.0947	0.0000	1,015.1966	1,015.1966	0.2205	3.7300e-003	1,021.8188
2025	0.3104	2.2913	2.7579	0.0116	0.0209	0.0825	0.1034	5.6100e-003	0.0782	0.0838	0.0000	1,015.3364	1,015.3364	0.2202	3.6400e-003	1,021.9254
2026	0.3102	2.2903	2.7560	0.0116	0.0209	0.0825	0.1034	5.6100e-003	0.0782	0.0838	0.0000	1,014.6364	1,014.6364	0.2202	3.5600e-003	1,021.2009
2027	0.3100	2.2894	2.7544	0.0116	0.0209	0.0825	0.1034	5.6100e-003	0.0782	0.0838	0.0000	1,013.9313	1,013.9313	0.2202	3.4700e-003	1,020.4705
2028	0.3106	2.2948	2.7606	0.0116	0.0209	0.0827	0.1037	5.6200e-003	0.0784	0.0840	0.0000	1,016.0400	1,016.0400	0.2208	3.4000e-003	1,022.5729
2029	0.3095	2.2876	2.7519	0.0116	0.0209	0.0825	0.1034	5.6100e-003	0.0781	0.0837	0.0000	1,012.5943	1,012.5943	0.2202	3.3100e-003	1,019.0845
2030	0.3409	1.0955	2.5726	0.0118	0.0209	0.0340	0.0548	5.6100e-003	0.0339	0.0395	0.0000	1,133.4093	1,133.4093	0.0282	3.2300e-003	1,135.0765
2031	0.3407	1.0951	2.5716	0.0118	0.0209	0.0339	0.0548	5.6100e-003	0.0339	0.0395	0.0000	1,132.9098	1,132.9098	0.0282	3.1700e-003	1,134.5586
2032	0.3415	1.0977	2.5779	0.0118	0.0209	0.0340	0.0550	5.6200e-003	0.0340	0.0396	0.0000	1,135.5753	1,135.5753	0.0282	3.1200e-003	1,137.2126
2033	0.3404	1.0944	2.5702	0.0118	0.0209	0.0339	0.0548	5.6100e-003	0.0339	0.0395	0.0000	1,132.0840	1,132.0840	0.0282	3.0700e-003	1,133.7025
2034	0.0289	0.0929	0.2182	1.0000e-003	1.7700e-003	2.8800e-003	4.6600e-003	4.8000e-004	2.8800e-003	3.3600e-003	0.0000	96.1201	96.1201	2.3900e-003	2.6000e-004	96.2565
Maximum	**0.3415**	**2.5648**	**2.7929**	**0.0118**	**0.0209**	**0.0940**	**0.1149**	**5.6200e-003**	**0.0891**	**0.0947**	**0.0000**	**1,135.5753**	**1,135.5753**	**0.2208**	**3.7300e-003**	**1,137.2126**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.1707	0.8744	4.9409	0.0116	0.0209	0.0315	0.0524	5.6100e-003	0.0315	0.0371	0.0000	1,015.1954	1,015.1954	0.2205	3.7300e-003	1,021.8176
2025	0.1681	0.8556	4.9385	0.0116	0.0209	0.0292	0.0501	5.6100e-003	0.0292	0.0348	0.0000	1,015.3352	1,015.3352	0.2202	3.6400e-003	1,021.9242
2026	0.1678	0.8547	4.9366	0.0116	0.0209	0.0292	0.0501	5.6100e-003	0.0292	0.0348	0.0000	1,014.6352	1,014.6352	0.2202	3.5600e-003	1,021.1997
2027	0.1676	0.8537	4.9350	0.0116	0.0209	0.0292	0.0501	5.6100e-003	0.0292	0.0348	0.0000	1,013.9302	1,013.9302	0.2202	3.4700e-003	1,020.4693
2028	0.1678	0.8553	4.9472	0.0116	0.0209	0.0292	0.0502	5.6200e-003	0.0292	0.0348	0.0000	1,016.0389	1,016.0389	0.2208	3.4000e-003	1,022.5718
2029	0.1671	0.8520	4.9325	0.0116	0.0209	0.0292	0.0500	5.6100e-003	0.0291	0.0347	0.0000	1,012.5931	1,012.5931	0.2202	3.3100e-003	1,019.0833
2030	0.1572	0.7810	4.9287	0.0118	0.0209	0.0216	0.0424	5.6100e-003	0.0215	0.0271	0.0000	1,133.4080	1,133.4080	0.0282	3.2300e-003	1,135.0752
2031	0.1570	0.7805	4.9278	0.0118	0.0209	0.0216	0.0424	5.6100e-003	0.0215	0.0271	0.0000	1,132.9085	1,132.9085	0.0282	3.1700e-003	1,134.5573
2032	0.1572	0.7823	4.9405	0.0118	0.0209	0.0216	0.0426	5.6200e-003	0.0216	0.0272	0.0000	1,135.5740	1,135.5740	0.0282	3.1200e-003	1,137.2113
2033	0.1566	0.7798	4.9264	0.0118	0.0209	0.0215	0.0424	5.6100e-003	0.0215	0.0271	0.0000	1,132.0827	1,132.0827	0.0282	3.0700e-003	1,133.7012
2034	0.0133	0.0662	0.4184	1.0000e-003	1.7700e-003	1.8300e-003	3.6000e-003	4.8000e-004	1.8300e-003	2.3000e-003	0.0000	96.1200	96.1200	2.3900e-003	2.6000e-004	96.2564
Maximum	**0.1707**	**0.8744**	**4.9472**	**0.0118**	**0.0209**	**0.0315**	**0.0524**	**5.6200e-003**	**0.0315**	**0.0371**	**0.0000**	**1,135.5740**	**1,135.5740**	**0.2208**	**3.7300e-003**	**1,137.2113**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**49.54**	**54.93**	**-83.77**	**0.00**	**0.00**	**58.86**	**44.37**	**0.00**	**57.12**	**52.34**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-2-2024	4-1-2024	0.7213	0.2607
2	4-2-2024	7-1-2024	0.7207	0.2601
3	7-2-2024	10-1-2024	0.7286	0.2629
4	10-2-2024	1-1-2025	0.7284	0.2635
5	1-2-2025	4-1-2025	0.6417	0.2526
6	4-2-2025	7-1-2025	0.6482	0.2547
7	7-2-2025	10-1-2025	0.6553	0.2575
8	10-2-2025	1-1-2026	0.6559	0.2582
9	1-2-2026	4-1-2026	0.6414	0.2523
10	4-2-2026	7-1-2026	0.6479	0.2544
11	7-2-2026	10-1-2026	0.6550	0.2572
12	10-2-2026	1-1-2027	0.6556	0.2579
13	1-2-2027	4-1-2027	0.6411	0.2520
14	4-2-2027	7-1-2027	0.6476	0.2542
15	7-2-2027	10-1-2027	0.6547	0.2570
16	10-2-2027	1-1-2028	0.6553	0.2576
17	1-2-2028	4-1-2028	0.6479	0.2545
18	4-2-2028	7-1-2028	0.6473	0.2539
19	7-2-2028	10-1-2028	0.6545	0.2567
20	10-2-2028	1-1-2029	0.6550	0.2573
21	1-2-2029	4-1-2029	0.6405	0.2514
22	4-2-2029	7-1-2029	0.6471	0.2536
23	7-2-2029	10-1-2029	0.6542	0.2564
24	10-2-2029	1-1-2030	0.6516	0.2568
25	1-2-2030	4-1-2030	0.3543	0.2314
26	4-2-2030	7-1-2030	0.3577	0.2335
27	7-2-2030	10-1-2030	0.3616	0.2360
28	10-2-2030	1-1-2031	0.3622	0.2366

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

29	**1-2-2031**	**4-1-2031**	0.3541	0.2313
30	**4-2-2031**	**7-1-2031**	0.3575	0.2333
31	**7-2-2031**	**10-1-2031**	0.3615	0.2359
32	**10-2-2031**	**1-1-2032**	0.3620	0.2364
33	**1-2-2032**	**4-1-2032**	0.3579	0.2337
34	**4-2-2032**	**7-1-2032**	0.3574	0.2332
35	**7-2-2032**	**10-1-2032**	0.3613	0.2357
36	**10-2-2032**	**1-1-2033**	0.3619	0.2363
37	**1-2-2033**	**4-1-2033**	0.3539	0.2310
38	**4-2-2033**	**7-1-2033**	0.3573	0.2330
39	**7-2-2033**	**10-1-2033**	0.3612	0.2356
40	**10-2-2033**	**1-1-2034**	0.3618	0.2362
41	**1-2-2034**	**4-1-2034**	0.1179	0.0770
		Highest	0.7286	0.2635

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0141	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	5.0000e-005
Energy	1.7000e-004	1.5800e-003	1.3200e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	7.3050	7.3050	3.7000e-004	7.0000e-005	7.3361
Mobile	0.0137	8.0300e-003	0.0585	1.4000e-004	0.0124	1.0000e-004	0.0125	3.1000e-003	9.0000e-005	3.1900e-003	0.0000	12.5522	12.5522	6.8000e-004	5.7000e-004	12.7391
Waste						0.0000	0.0000		0.0000	0.0000	0.7024	0.0000	0.7024	0.0415	0.0000	1.7400
Water						0.0000	0.0000		0.0000	0.0000	0.2047	2.0577	2.2624	0.0212	5.1000e-004	2.9436
Total	**0.0280**	**9.6100e-003**	**0.0599**	**1.5000e-004**	**0.0124**	**2.2000e-004**	**0.0126**	**3.1000e-003**	**2.1000e-004**	**3.3100e-003**	**0.9070**	**21.9149**	**22.8219**	**0.0637**	**1.1500e-003**	**24.7588**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0141	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	5.0000e-005
Energy	1.7000e-004	1.5800e-003	1.3200e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	7.3050	7.3050	3.7000e-004	7.0000e-005	7.3361
Mobile	0.0137	8.0300e-003	0.0585	1.4000e-004	0.0124	1.0000e-004	0.0125	3.1000e-003	9.0000e-005	3.1900e-003	0.0000	12.5522	12.5522	6.8000e-004	5.7000e-004	12.7391
Waste						0.0000	0.0000		0.0000	0.0000	0.7024	0.0000	0.7024	0.0415	0.0000	1.7400
Water						0.0000	0.0000		0.0000	0.0000	0.2047	2.0577	2.2624	0.0212	5.1000e-004	2.9436
Total	**0.0280**	**9.6100e-003**	**0.0599**	**1.5000e-004**	**0.0124**	**2.2000e-004**	**0.0126**	**3.1000e-003**	**2.1000e-004**	**3.3100e-003**	**0.9070**	**21.9149**	**22.8219**	**0.0637**	**1.1500e-003**	**24.7588**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/2/2024	1/31/2034	7	3683	

Acres of Grading (Site Preparation Phase): 0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Bore/Drill Rigs	1	4.00	595	0.50
Building Construction	Bore/Drill Rigs	1	4.00	595	0.50
Building Construction	Cranes	1	8.00	282	0.29
Building Construction	Crushing/Proc. Equipment	1	8.00	10	0.78
Building Construction	Excavators	1	4.00	242	0.38
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Off-Highway Trucks	1	2.00	383	0.38
Building Construction	Other Construction Equipment	1	4.00	595	0.42
Building Construction	Pumps	1	8.00	225	0.74
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	10.00	0.00	7,366.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3223	2.5126	2.7405	0.0113		0.0935	0.0935		0.0887	0.0887	0.0000	982.2449	982.2449	0.2190	0.0000	987.7203
Total	**0.3223**	**2.5126**	**2.7405**	**0.0113**		**0.0935**	**0.0935**		**0.0887**	**0.0887**	**0.0000**	**982.2449**	**982.2449**	**0.2190**	**0.0000**	**987.7203**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.0000e-004	0.0491	0.0134	2.1000e-004	6.2500e-003	4.1000e-004	6.6600e-003	1.7200e-003	3.9000e-004	2.1100e-003	0.0000	21.5198	21.5198	1.1400e-003	3.4200e-003	22.5689
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6400e-003	3.0700e-003	0.0390	1.2000e-004	0.0146	8.0000e-005	0.0147	3.8900e-003	7.0000e-005	3.9600e-003	0.0000	11.4319	11.4319	3.1000e-004	3.0000e-004	11.5296
Total	**5.4400e-003**	**0.0522**	**0.0524**	**3.3000e-004**	**0.0209**	**4.9000e-004**	**0.0214**	**5.6100e-003**	**4.6000e-004**	**6.0700e-003**	**0.0000**	**32.9517**	**32.9517**	**1.4500e-003**	**3.7200e-003**	**34.0985**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1653	0.8223	4.8885	0.0113		0.0310	0.0310		0.0310	0.0310	0.0000	982.2437	982.2437	0.2190	0.0000	987.7191
Total	**0.1653**	**0.8223**	**4.8885**	**0.0113**		**0.0310**	**0.0310**		**0.0310**	**0.0310**	**0.0000**	**982.2437**	**982.2437**	**0.2190**	**0.0000**	**987.7191**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.0000e-004	0.0491	0.0134	2.1000e-004	6.2500e-003	4.1000e-004	6.6600e-003	1.7200e-003	3.9000e-004	2.1100e-003	0.0000	21.5198	21.5198	1.1400e-003	3.4200e-003	22.5689
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6400e-003	3.0700e-003	0.0390	1.2000e-004	0.0146	8.0000e-005	0.0147	3.8900e-003	7.0000e-005	3.9600e-003	0.0000	11.4319	11.4319	3.1000e-004	3.0000e-004	11.5296
Total	**5.4400e-003**	**0.0522**	**0.0524**	**3.3000e-004**	**0.0209**	**4.9000e-004**	**0.0214**	**5.6100e-003**	**4.6000e-004**	**6.0700e-003**	**0.0000**	**32.9517**	**32.9517**	**1.4500e-003**	**3.7200e-003**	**34.0985**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3053	2.2401	2.7077	0.0113		0.0820	0.0820		0.0777	0.0777	0.0000	983.1002	983.1002	0.2187	0.0000	988.5676
Total	**0.3053**	**2.2401**	**2.7077**	**0.0113**		**0.0820**	**0.0820**		**0.0777**	**0.0777**	**0.0000**	**983.1002**	**983.1002**	**0.2187**	**0.0000**	**988.5676**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.9000e-004	0.0484	0.0136	2.1000e-004	6.2500e-003	4.1000e-004	6.6600e-003	1.7200e-003	3.9000e-004	2.1100e-003	0.0000	21.0835	21.0835	1.1700e-003	3.3600e-003	22.1136
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3800e-003	2.7800e-003	0.0367	1.2000e-004	0.0146	7.0000e-005	0.0147	3.8900e-003	7.0000e-005	3.9600e-003	0.0000	11.1526	11.1526	2.9000e-004	2.8000e-004	11.2442
Total	**5.1700e-003**	**0.0512**	**0.0502**	**3.3000e-004**	**0.0209**	**4.8000e-004**	**0.0214**	**5.6100e-003**	**4.6000e-004**	**6.0700e-003**	**0.0000**	**32.2362**	**32.2362**	**1.4600e-003**	**3.6400e-003**	**33.3578**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1629	0.8044	4.8883	0.0113		0.0287	0.0287		0.0287	0.0287	0.0000	983.0991	983.0991	0.2187	0.0000	988.5665
Total	**0.1629**	**0.8044**	**4.8883**	**0.0113**		**0.0287**	**0.0287**		**0.0287**	**0.0287**	**0.0000**	**983.0991**	**983.0991**	**0.2187**	**0.0000**	**988.5665**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.9000e-004	0.0484	0.0136	2.1000e-004	6.2500e-003	4.1000e-004	6.6600e-003	1.7200e-003	3.9000e-004	2.1100e-003	0.0000	21.0835	21.0835	1.1700e-003	3.3600e-003	22.1136
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3800e-003	2.7800e-003	0.0367	1.2000e-004	0.0146	7.0000e-005	0.0147	3.8900e-003	7.0000e-005	3.9600e-003	0.0000	11.1526	11.1526	2.9000e-004	2.8000e-004	11.2442
Total	**5.1700e-003**	**0.0512**	**0.0502**	**3.3000e-004**	**0.0209**	**4.8000e-004**	**0.0214**	**5.6100e-003**	**4.6000e-004**	**6.0700e-003**	**0.0000**	**32.2362**	**32.2362**	**1.4600e-003**	**3.6400e-003**	**33.3578**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3053	2.2401	2.7077	0.0113		0.0820	0.0820		0.0777	0.0777	0.0000	983.1002	983.1002	0.2187	0.0000	988.5676
Total	**0.3053**	**2.2401**	**2.7077**	**0.0113**		**0.0820**	**0.0820**		**0.0777**	**0.0777**	**0.0000**	**983.1002**	**983.1002**	**0.2187**	**0.0000**	**988.5676**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.8000e-004	0.0477	0.0137	2.0000e-004	6.2500e-003	4.0000e-004	6.6500e-003	1.7200e-003	3.9000e-004	2.1000e-003	0.0000	20.6435	20.6435	1.2100e-003	3.2900e-003	21.6543
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1400e-003	2.5400e-003	0.0346	1.1000e-004	0.0146	7.0000e-005	0.0147	3.8900e-003	6.0000e-005	3.9500e-003	0.0000	10.8927	10.8927	2.6000e-004	2.7000e-004	10.9790
Total	**4.9200e-003**	**0.0502**	**0.0484**	**3.1000e-004**	**0.0209**	**4.7000e-004**	**0.0214**	**5.6100e-003**	**4.5000e-004**	**6.0500e-003**	**0.0000**	**31.5362**	**31.5362**	**1.4700e-003**	**3.5600e-003**	**32.6333**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1629	0.8044	4.8883	0.0113		0.0287	0.0287		0.0287	0.0287	0.0000	983.0991	983.0991	0.2187	0.0000	988.5665
Total	**0.1629**	**0.8044**	**4.8883**	**0.0113**		**0.0287**	**0.0287**		**0.0287**	**0.0287**	**0.0000**	**983.0991**	**983.0991**	**0.2187**	**0.0000**	**988.5665**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.8000e-004	0.0477	0.0137	2.0000e-004	6.2500e-003	4.0000e-004	6.6500e-003	1.7200e-003	3.9000e-004	2.1000e-003	0.0000	20.6435	20.6435	1.2100e-003	3.2900e-003	21.6543
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1400e-003	2.5400e-003	0.0346	1.1000e-004	0.0146	7.0000e-005	0.0147	3.8900e-003	6.0000e-005	3.9500e-003	0.0000	10.8927	10.8927	2.6000e-004	2.7000e-004	10.9790
Total	**4.9200e-003**	**0.0502**	**0.0484**	**3.1000e-004**	**0.0209**	**4.7000e-004**	**0.0214**	**5.6100e-003**	**4.5000e-004**	**6.0500e-003**	**0.0000**	**31.5362**	**31.5362**	**1.4700e-003**	**3.5600e-003**	**32.6333**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3053	2.2401	2.7077	0.0113		0.0820	0.0820		0.0777	0.0777	0.0000	983.1002	983.1002	0.2187	0.0000	988.5676
Total	**0.3053**	**2.2401**	**2.7077**	**0.0113**		**0.0820**	**0.0820**		**0.0777**	**0.0777**	**0.0000**	**983.1002**	**983.1002**	**0.2187**	**0.0000**	**988.5676**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.7000e-004	0.0470	0.0139	2.0000e-004	6.2500e-003	4.0000e-004	6.6500e-003	1.7200e-003	3.8000e-004	2.1000e-003	0.0000	20.1738	20.1738	1.2400e-003	3.2200e-003	21.1637
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9200e-003	2.3300e-003	0.0329	1.1000e-004	0.0146	7.0000e-005	0.0147	3.8900e-003	6.0000e-005	3.9500e-003	0.0000	10.6573	10.6573	2.4000e-004	2.5000e-004	10.7392
Total	**4.6900e-003**	**0.0493**	**0.0467**	**3.1000e-004**	**0.0209**	**4.7000e-004**	**0.0214**	**5.6100e-003**	**4.4000e-004**	**6.0500e-003**	**0.0000**	**30.8311**	**30.8311**	**1.4800e-003**	**3.4700e-003**	**31.9029**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1629	0.8044	4.8883	0.0113		0.0287	0.0287		0.0287	0.0287	0.0000	983.0991	983.0991	0.2187	0.0000	988.5665
Total	**0.1629**	**0.8044**	**4.8883**	**0.0113**		**0.0287**	**0.0287**		**0.0287**	**0.0287**	**0.0000**	**983.0991**	**983.0991**	**0.2187**	**0.0000**	**988.5665**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.7000e-004	0.0470	0.0139	2.0000e-004	6.2500e-003	4.0000e-004	6.6500e-003	1.7200e-003	3.8000e-004	2.1000e-003	0.0000	20.1738	20.1738	1.2400e-003	3.2200e-003	21.1637
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9200e-003	2.3300e-003	0.0329	1.1000e-004	0.0146	7.0000e-005	0.0147	3.8900e-003	6.0000e-005	3.9500e-003	0.0000	10.6573	10.6573	2.4000e-004	2.5000e-004	10.7392
Total	**4.6900e-003**	**0.0493**	**0.0467**	**3.1000e-004**	**0.0209**	**4.7000e-004**	**0.0214**	**5.6100e-003**	**4.4000e-004**	**6.0500e-003**	**0.0000**	**30.8311**	**30.8311**	**1.4800e-003**	**3.4700e-003**	**31.9029**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3061	2.2462	2.7151	0.0113		0.0822	0.0822		0.0779	0.0779	0.0000	985.7937	985.7937	0.2193	0.0000	991.2761
Total	**0.3061**	**2.2462**	**2.7151**	**0.0113**		**0.0822**	**0.0822**		**0.0779**	**0.0779**	**0.0000**	**985.7937**	**985.7937**	**0.2193**	**0.0000**	**991.2761**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.6000e-004	0.0465	0.0141	1.9000e-004	6.2700e-003	4.0000e-004	6.6700e-003	1.7200e-003	3.8000e-004	2.1000e-003	0.0000	19.7689	19.7689	1.2700e-003	3.1600e-003	20.7411
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7200e-003	2.1600e-003	0.0315	1.1000e-004	0.0147	6.0000e-005	0.0147	3.9000e-003	6.0000e-005	3.9600e-003	0.0000	10.4775	10.4775	2.2000e-004	2.4000e-004	10.5558
Total	**4.4800e-003**	**0.0486**	**0.0455**	**3.0000e-004**	**0.0210**	**4.6000e-004**	**0.0214**	**5.6200e-003**	**4.4000e-004**	**6.0600e-003**	**0.0000**	**30.2464**	**30.2464**	**1.4900e-003**	**3.4000e-003**	**31.2969**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2028

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1633	0.8066	4.9017	0.0113		0.0288	0.0288		0.0288	0.0288	0.0000	985.7925	985.7925	0.2193	0.0000	991.2749
Total	**0.1633**	**0.8066**	**4.9017**	**0.0113**		**0.0288**	**0.0288**		**0.0288**	**0.0288**	**0.0000**	**985.7925**	**985.7925**	**0.2193**	**0.0000**	**991.2749**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.6000e-004	0.0465	0.0141	1.9000e-004	6.2700e-003	4.0000e-004	6.6700e-003	1.7200e-003	3.8000e-004	2.1000e-003	0.0000	19.7689	19.7689	1.2700e-003	3.1600e-003	20.7411
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7200e-003	2.1600e-003	0.0315	1.1000e-004	0.0147	6.0000e-005	0.0147	3.9000e-003	6.0000e-005	3.9600e-003	0.0000	10.4775	10.4775	2.2000e-004	2.4000e-004	10.5558
Total	**4.4800e-003**	**0.0486**	**0.0455**	**3.0000e-004**	**0.0210**	**4.6000e-004**	**0.0214**	**5.6200e-003**	**4.4000e-004**	**6.0600e-003**	**0.0000**	**30.2464**	**30.2464**	**1.4900e-003**	**3.4000e-003**	**31.2969**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3053	2.2401	2.7077	0.0113		0.0820	0.0820		0.0777	0.0777	0.0000	983.1002	983.1002	0.2187	0.0000	988.5676
Total	**0.3053**	**2.2401**	**2.7077**	**0.0113**		**0.0820**	**0.0820**		**0.0777**	**0.0777**	**0.0000**	**983.1002**	**983.1002**	**0.2187**	**0.0000**	**988.5676**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.5000e-004	0.0456	0.0142	1.9000e-004	6.2500e-003	3.9000e-004	6.6400e-003	1.7200e-003	3.7000e-004	2.0900e-003	0.0000	19.2315	19.2315	1.3000e-003	3.0700e-003	20.1795
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-003	2.0000e-003	0.0301	1.1000e-004	0.0146	6.0000e-005	0.0147	3.8900e-003	5.0000e-005	3.9400e-003	0.0000	10.2626	10.2626	2.1000e-004	2.3000e-004	10.3374
Total	**4.2500e-003**	**0.0476**	**0.0442**	**3.0000e-004**	**0.0209**	**4.5000e-004**	**0.0213**	**5.6100e-003**	**4.2000e-004**	**6.0300e-003**	**0.0000**	**29.4941**	**29.4941**	**1.5100e-003**	**3.3000e-003**	**30.5169**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2029

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1629	0.8044	4.8883	0.0113		0.0287	0.0287		0.0287	0.0287	0.0000	983.0991	983.0991	0.2187	0.0000	988.5665
Total	**0.1629**	**0.8044**	**4.8883**	**0.0113**		**0.0287**	**0.0287**		**0.0287**	**0.0287**	**0.0000**	**983.0991**	**983.0991**	**0.2187**	**0.0000**	**988.5665**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.5000e-004	0.0456	0.0142	1.9000e-004	6.2500e-003	3.9000e-004	6.6400e-003	1.7200e-003	3.7000e-004	2.0900e-003	0.0000	19.2315	19.2315	1.3000e-003	3.0700e-003	20.1795
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-003	2.0000e-003	0.0301	1.1000e-004	0.0146	6.0000e-005	0.0147	3.8900e-003	5.0000e-005	3.9400e-003	0.0000	10.2626	10.2626	2.1000e-004	2.3000e-004	10.3374
Total	**4.2500e-003**	**0.0476**	**0.0442**	**3.0000e-004**	**0.0209**	**4.5000e-004**	**0.0213**	**5.6100e-003**	**4.2000e-004**	**6.0300e-003**	**0.0000**	**29.4941**	**29.4941**	**1.5100e-003**	**3.3000e-003**	**30.5169**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3369	1.0486	2.5293	0.0115		0.0335	0.0335		0.0335	0.0335	0.0000	1,104.4938	1,104.4938	0.0266	0.0000	1,105.1595
Total	**0.3369**	**1.0486**	**2.5293**	**0.0115**		**0.0335**	**0.0335**		**0.0335**	**0.0335**	**0.0000**	**1,104.4938**	**1,104.4938**	**0.0266**	**0.0000**	**1,105.1595**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.5000e-004	0.0451	0.0143	1.8000e-004	6.2500e-003	3.9000e-004	6.6400e-003	1.7200e-003	3.7000e-004	2.0900e-003	0.0000	18.8166	18.8166	1.3300e-003	3.0100e-003	19.7462
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-003	1.8700e-003	0.0289	1.0000e-004	0.0146	5.0000e-005	0.0147	3.8900e-003	5.0000e-005	3.9400e-003	0.0000	10.0989	10.0989	1.9000e-004	2.3000e-004	10.1709
Total	**4.0500e-003**	**0.0469**	**0.0432**	**2.8000e-004**	**0.0209**	**4.4000e-004**	**0.0213**	**5.6100e-003**	**4.2000e-004**	**6.0300e-003**	**0.0000**	**28.9156**	**28.9156**	**1.5200e-003**	**3.2400e-003**	**29.9170**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2030

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1531	0.7340	4.8855	0.0115		0.0211	0.0211		0.0211	0.0211	0.0000	1,104.4925	1,104.4925	0.0266	0.0000	1,105.1582
Total	**0.1531**	**0.7340**	**4.8855**	**0.0115**		**0.0211**	**0.0211**		**0.0211**	**0.0211**	**0.0000**	**1,104.4925**	**1,104.4925**	**0.0266**	**0.0000**	**1,105.1582**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.5000e-004	0.0451	0.0143	1.8000e-004	6.2500e-003	3.9000e-004	6.6400e-003	1.7200e-003	3.7000e-004	2.0900e-003	0.0000	18.8166	18.8166	1.3300e-003	3.0100e-003	19.7462
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-003	1.8700e-003	0.0289	1.0000e-004	0.0146	5.0000e-005	0.0147	3.8900e-003	5.0000e-005	3.9400e-003	0.0000	10.0989	10.0989	1.9000e-004	2.3000e-004	10.1709
Total	**4.0500e-003**	**0.0469**	**0.0432**	**2.8000e-004**	**0.0209**	**4.4000e-004**	**0.0213**	**5.6100e-003**	**4.2000e-004**	**6.0300e-003**	**0.0000**	**28.9156**	**28.9156**	**1.5200e-003**	**3.2400e-003**	**29.9170**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3369	1.0486	2.5293	0.0115		0.0335	0.0335		0.0335	0.0335	0.0000	1,104.4938	1,104.4938	0.0266	0.0000	1,105.1595
Total	**0.3369**	**1.0486**	**2.5293**	**0.0115**		**0.0335**	**0.0335**		**0.0335**	**0.0335**	**0.0000**	**1,104.4938**	**1,104.4938**	**0.0266**	**0.0000**	**1,105.1595**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.4000e-004	0.0448	0.0144	1.8000e-004	6.2500e-003	3.8000e-004	6.6400e-003	1.7200e-003	3.7000e-004	2.0900e-003	0.0000	18.4623	18.4623	1.3500e-003	2.9500e-003	19.3760
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0900e-003	1.7400e-003	0.0279	1.0000e-004	0.0146	5.0000e-005	0.0147	3.8900e-003	5.0000e-005	3.9400e-003	0.0000	9.9537	9.9537	1.8000e-004	2.2000e-004	10.0231
Total	**3.8300e-003**	**0.0465**	**0.0423**	**2.8000e-004**	**0.0209**	**4.3000e-004**	**0.0213**	**5.6100e-003**	**4.2000e-004**	**6.0300e-003**	**0.0000**	**28.4160**	**28.4160**	**1.5300e-003**	**3.1700e-003**	**29.3991**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2031

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1531	0.7340	4.8855	0.0115		0.0211	0.0211		0.0211	0.0211	0.0000	1,104.4925	1,104.4925	0.0266	0.0000	1,105.1582
Total	**0.1531**	**0.7340**	**4.8855**	**0.0115**		**0.0211**	**0.0211**		**0.0211**	**0.0211**	**0.0000**	**1,104.4925**	**1,104.4925**	**0.0266**	**0.0000**	**1,105.1582**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.4000e-004	0.0448	0.0144	1.8000e-004	6.2500e-003	3.8000e-004	6.6400e-003	1.7200e-003	3.7000e-004	2.0900e-003	0.0000	18.4623	18.4623	1.3500e-003	2.9500e-003	19.3760
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0900e-003	1.7400e-003	0.0279	1.0000e-004	0.0146	5.0000e-005	0.0147	3.8900e-003	5.0000e-005	3.9400e-003	0.0000	9.9537	9.9537	1.8000e-004	2.2000e-004	10.0231
Total	**3.8300e-003**	**0.0465**	**0.0423**	**2.8000e-004**	**0.0209**	**4.3000e-004**	**0.0213**	**5.6100e-003**	**4.2000e-004**	**6.0300e-003**	**0.0000**	**28.4160**	**28.4160**	**1.5300e-003**	**3.1700e-003**	**29.3991**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3378	1.0515	2.5363	0.0116		0.0336	0.0336		0.0336	0.0336	0.0000	1,107.5198	1,107.5198	0.0267	0.0000	1,108.1873
Total	**0.3378**	**1.0515**	**2.5363**	**0.0116**		**0.0336**	**0.0336**		**0.0336**	**0.0336**	**0.0000**	**1,107.5198**	**1,107.5198**	**0.0267**	**0.0000**	**1,108.1873**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.4000e-004	0.0446	0.0146	1.8000e-004	6.2700e-003	3.8000e-004	6.6500e-003	1.7200e-003	3.7000e-004	2.0900e-003	0.0000	18.2018	18.2018	1.3700e-003	2.9100e-003	19.1040
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9200e-003	1.6400e-003	0.0271	1.0000e-004	0.0147	5.0000e-005	0.0147	3.9000e-003	4.0000e-005	3.9400e-003	0.0000	9.8538	9.8538	1.7000e-004	2.1000e-004	9.9213
Total	**3.6600e-003**	**0.0463**	**0.0416**	**2.8000e-004**	**0.0210**	**4.3000e-004**	**0.0214**	**5.6200e-003**	**4.1000e-004**	**6.0300e-003**	**0.0000**	**28.0556**	**28.0556**	**1.5400e-003**	**3.1200e-003**	**29.0253**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1535	0.7361	4.8989	0.0116		0.0212	0.0212		0.0212	0.0212	0.0000	1,107.5185	1,107.5185	0.0267	0.0000	1,108.1860
Total	**0.1535**	**0.7361**	**4.8989**	**0.0116**		**0.0212**	**0.0212**		**0.0212**	**0.0212**	**0.0000**	**1,107.5185**	**1,107.5185**	**0.0267**	**0.0000**	**1,108.1860**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.4000e-004	0.0446	0.0146	1.8000e-004	6.2700e-003	3.8000e-004	6.6500e-003	1.7200e-003	3.7000e-004	2.0900e-003	0.0000	18.2018	18.2018	1.3700e-003	2.9100e-003	19.1040
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9200e-003	1.6400e-003	0.0271	1.0000e-004	0.0147	5.0000e-005	0.0147	3.9000e-003	4.0000e-005	3.9400e-003	0.0000	9.8538	9.8538	1.7000e-004	2.1000e-004	9.9213
Total	**3.6600e-003**	**0.0463**	**0.0416**	**2.8000e-004**	**0.0210**	**4.3000e-004**	**0.0214**	**5.6200e-003**	**4.1000e-004**	**6.0300e-003**	**0.0000**	**28.0556**	**28.0556**	**1.5400e-003**	**3.1200e-003**	**29.0253**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3369	1.0486	2.5293	0.0115		0.0335	0.0335		0.0335	0.0335	0.0000	1,104.4938	1,104.4938	0.0266	0.0000	1,105.1595
Total	**0.3369**	**1.0486**	**2.5293**	**0.0115**		**0.0335**	**0.0335**		**0.0335**	**0.0335**	**0.0000**	**1,104.4938**	**1,104.4938**	**0.0266**	**0.0000**	**1,105.1595**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.4000e-004	0.0442	0.0147	1.7000e-004	6.2500e-003	3.8000e-004	6.6300e-003	1.7200e-003	3.6000e-004	2.0800e-003	0.0000	17.8739	17.8739	1.3900e-003	2.8600e-003	18.7612
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7500e-003	1.5600e-003	0.0262	1.0000e-004	0.0146	4.0000e-005	0.0147	3.8900e-003	4.0000e-005	3.9300e-003	0.0000	9.7163	9.7163	1.6000e-004	2.1000e-004	9.7819
Total	**3.4900e-003**	**0.0458**	**0.0409**	**2.7000e-004**	**0.0209**	**4.2000e-004**	**0.0213**	**5.6100e-003**	**4.0000e-004**	**6.0100e-003**	**0.0000**	**27.5902**	**27.5902**	**1.5500e-003**	**3.0700e-003**	**28.5430**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1531	0.7340	4.8855	0.0115		0.0211	0.0211		0.0211	0.0211	0.0000	1,104.4925	1,104.4925	0.0266	0.0000	1,105.1582
Total	**0.1531**	**0.7340**	**4.8855**	**0.0115**		**0.0211**	**0.0211**		**0.0211**	**0.0211**	**0.0000**	**1,104.4925**	**1,104.4925**	**0.0266**	**0.0000**	**1,105.1582**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.4000e-004	0.0442	0.0147	1.7000e-004	6.2500e-003	3.8000e-004	6.6300e-003	1.7200e-003	3.6000e-004	2.0800e-003	0.0000	17.8739	17.8739	1.3900e-003	2.8600e-003	18.7612
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7500e-003	1.5600e-003	0.0262	1.0000e-004	0.0146	4.0000e-005	0.0147	3.8900e-003	4.0000e-005	3.9300e-003	0.0000	9.7163	9.7163	1.6000e-004	2.1000e-004	9.7819
Total	**3.4900e-003**	**0.0458**	**0.0409**	**2.7000e-004**	**0.0209**	**4.2000e-004**	**0.0213**	**5.6100e-003**	**4.0000e-004**	**6.0100e-003**	**0.0000**	**27.5902**	**27.5902**	**1.5500e-003**	**3.0700e-003**	**28.5430**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0286	0.0891	0.2148	9.8000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003	0.0000	93.8063	93.8063	2.2600e-003	0.0000	93.8629
Total	**0.0286**	**0.0891**	**0.2148**	**9.8000e-004**		**2.8500e-003**	**2.8500e-003**		**2.8500e-003**	**2.8500e-003**	**0.0000**	**93.8063**	**93.8063**	**2.2600e-003**	**0.0000**	**93.8629**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	3.7400e-003	1.2500e-003	1.0000e-005	5.3000e-004	3.0000e-005	5.6000e-004	1.5000e-004	3.0000e-005	1.8000e-004	0.0000	1.4968	1.4968	1.2000e-004	2.4000e-004	1.5712
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.3000e-004	2.1700e-003	1.0000e-005	1.2400e-003	0.0000	1.2500e-003	3.3000e-004	0.0000	3.3000e-004	0.0000	0.8171	0.8171	1.0000e-005	2.0000e-005	0.8225
Total	**2.8000e-004**	**3.8700e-003**	**3.4200e-003**	**2.0000e-005**	**1.7700e-003**	**3.0000e-005**	**1.8100e-003**	**4.8000e-004**	**3.0000e-005**	**5.1000e-004**	**0.0000**	**2.3138**	**2.3138**	**1.3000e-004**	**2.6000e-004**	**2.3937**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2034

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0130	0.0623	0.4149	9.8000e-004		1.7900e-003	1.7900e-003		1.7900e-003	1.7900e-003	0.0000	93.8062	93.8062	2.2600e-003	0.0000	93.8628
Total	**0.0130**	**0.0623**	**0.4149**	**9.8000e-004**		**1.7900e-003**	**1.7900e-003**		**1.7900e-003**	**1.7900e-003**	**0.0000**	**93.8062**	**93.8062**	**2.2600e-003**	**0.0000**	**93.8628**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	3.7400e-003	1.2500e-003	1.0000e-005	5.3000e-004	3.0000e-005	5.6000e-004	1.5000e-004	3.0000e-005	1.8000e-004	0.0000	1.4968	1.4968	1.2000e-004	2.4000e-004	1.5712
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.3000e-004	2.1700e-003	1.0000e-005	1.2400e-003	0.0000	1.2500e-003	3.3000e-004	0.0000	3.3000e-004	0.0000	0.8171	0.8171	1.0000e-005	2.0000e-005	0.8225
Total	**2.8000e-004**	**3.8700e-003**	**3.4200e-003**	**2.0000e-005**	**1.7700e-003**	**3.0000e-005**	**1.8100e-003**	**4.8000e-004**	**3.0000e-005**	**5.1000e-004**	**0.0000**	**2.3138**	**2.3138**	**1.3000e-004**	**2.6000e-004**	**2.3937**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0137	8.0300e-003	0.0585	1.4000e-004	0.0124	1.0000e-004	0.0125	3.1000e-003	9.0000e-005	3.1900e-003	0.0000	12.5522	12.5522	6.8000e-004	5.7000e-004	12.7391
Unmitigated	0.0137	8.0300e-003	0.0585	1.4000e-004	0.0124	1.0000e-004	0.0125	3.1000e-003	9.0000e-005	3.1900e-003	0.0000	12.5522	12.5522	6.8000e-004	5.7000e-004	12.7391

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	10.96	17.91	14.20	36,259	36,259
Total	10.96	17.91	14.20	36,259	36,259

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.581445	0.061322	0.168269	0.110400	0.022610	0.006703	0.010268	0.006246	0.000647	0.000667	0.027159	0.000784	0.003479

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5.5899	5.5899	3.4000e-004	4.0000e-005	5.6107
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5.5899	5.5899	3.4000e-004	4.0000e-005	5.6107
NaturalGas Mitigated	1.7000e-004	1.5800e-003	1.3200e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.7152	1.7152	3.0000e-005	3.0000e-005	1.7254
NaturalGas Unmitigated	1.7000e-004	1.5800e-003	1.3200e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.7152	1.7152	3.0000e-005	3.0000e-005	1.7254

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Heavy Industry	32140.8	1.7000e-004	1.5800e-003	1.3200e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.7152	1.7152	3.0000e-005	3.0000e-005	1.7254
Total		**1.7000e-004**	**1.5800e-003**	**1.3200e-003**	**1.0000e-005**		**1.2000e-004**	**1.2000e-004**		**1.2000e-004**	**1.2000e-004**	**0.0000**	**1.7152**	**1.7152**	**3.0000e-005**	**3.0000e-005**	**1.7254**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Heavy Industry	32140.8	1.7000e-004	1.5800e-003	1.3200e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.7152	1.7152	3.0000e-005	3.0000e-005	1.7254
Total		**1.7000e-004**	**1.5800e-003**	**1.3200e-003**	**1.0000e-005**		**1.2000e-004**	**1.2000e-004**		**1.2000e-004**	**1.2000e-004**	**0.0000**	**1.7152**	**1.7152**	**3.0000e-005**	**3.0000e-005**	**1.7254**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	22822.2	5.5899	3.4000e-004	4.0000e-005	5.6107
Total		**5.5899**	**3.4000e-004**	**4.0000e-005**	**5.6107**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	22822.2	5.5899	3.4000e-004	4.0000e-005	5.6107
Total		**5.5899**	**3.4000e-004**	**4.0000e-005**	**5.6107**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0141	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	5.0000e-005
Unmitigated	0.0141	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	5.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.2300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0109					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	5.0000e-005
Total	**0.0141**	**0.0000**	**3.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0000**	**5.0000e-005**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.2300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0109					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	5.0000e-005
Total	**0.0141**	**0.0000**	**3.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0000**	**5.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.2624	0.0212	5.1000e-004	2.9436
Unmitigated	2.2624	0.0212	5.1000e-004	2.9436

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	0.645188 / 0	2.2624	0.0212	5.1000e-004	2.9436
Total		**2.2624**	**0.0212**	**5.1000e-004**	**2.9436**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	0.645188 / 0	2.2624	0.0212	5.1000e-004	2.9436
Total		**2.2624**	**0.0212**	**5.1000e-004**	**2.9436**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.7024	0.0415	0.0000	1.7400
Unmitigated	0.7024	0.0415	0.0000	1.7400

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	3.46	0.7024	0.0415	0.0000	1.7400
Total		**0.7024**	**0.0415**	**0.0000**	**1.7400**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	3.46	0.7024	0.0415	0.0000	1.7400
Total		**0.7024**	**0.0415**	**0.0000**	**1.7400**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

NASSCO - Phase 5

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	2.79	1000sqft	0.06	2,790.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Jan 2024-Jan 2034: As-needed structural repair and/or replacement of selected piles at Berths 2, 3, 4, 5, 6, at Pier 12 and the floating dry dock approach pier, and at the Berth 1 Platform.

Land Use - Structure pile repairs and replacement at Berths 2, 3, 4, 5, 6, and Pier 12, and the floating dry dock approach pier and the Berth 1 Platform (10 years). Total proposed fill area: 2789 sq. ft.

Construction Phase - Client provided information. Phase 5 (Jan, 2024 - Jan 31, 2034): Repair/replacement of selected piles at Berths 2, 3, 4, 5, 6, and Pier 12 and the floating dry dock approach pier, and at the Berth 1 Platform, as needed.

Off-road Equipment - Client supplied equipment list

Trips and VMT - 2 haul truck trips per day per client. Most materials will be transported via water access.

Construction Off-road Equipment Mitigation - Mitigation: at least 90% Tier 4 engines.

Vehicle Emission Factors - EMFAC 2021 Emission Factors

Vehicle Emission Factors - EMFAC 2021 Emission Factors

Vehicle Emission Factors - EMFAC 2021 Emission Factors

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	100.00	3,683.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblOffRoadEquipment	HorsePower	231.00	282.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	221.00	595.00
tblOffRoadEquipment	HorsePower	85.00	10.00
tblOffRoadEquipment	HorsePower	158.00	242.00
tblOffRoadEquipment	HorsePower	402.00	383.00
tblOffRoadEquipment	HorsePower	172.00	595.00
tblOffRoadEquipment	HorsePower	84.00	225.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	7,366.00

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblTripsAndVMT	WorkerTripNumber	1.00	10.00
tblVehicleEF	HHD	0.03	0.71
tblVehicleEF	HHD	0.10	0.06
tblVehicleEF	HHD	6.66	76.55
tblVehicleEF	HHD	0.59	0.50
tblVehicleEF	HHD	8.8000e-003	2.5080e-003
tblVehicleEF	HHD	909.54	11,481.16
tblVehicleEF	HHD	1,140.56	1,449.81
tblVehicleEF	HHD	0.07	0.02
tblVehicleEF	HHD	0.14	1.82
tblVehicleEF	HHD	0.18	0.23
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	5.44	63.27
tblVehicleEF	HHD	2.32	1.66
tblVehicleEF	HHD	2.38	2.66
tblVehicleEF	HHD	2.1260e-003	0.03
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	2.0340e-003	0.03
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8750e-003	8.8370e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.0000e-006	3.0070e-003
tblVehicleEF	HHD	9.3000e-005	4.2000e-005
tblVehicleEF	HHD	0.44	5.14
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	3.9000e-005	1.5500e-004
tblVehicleEF	HHD	2.0000e-006	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	HHD	8.3320e-003	0.11
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	2.0000e-006	3.0070e-003
tblVehicleEF	HHD	9.3000e-005	4.2000e-005
tblVehicleEF	HHD	0.51	6.33
tblVehicleEF	HHD	0.12	0.08
tblVehicleEF	HHD	3.9000e-005	1.5500e-004
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.74
tblVehicleEF	HHD	0.10	0.06
tblVehicleEF	HHD	6.57	76.53
tblVehicleEF	HHD	0.59	0.52
tblVehicleEF	HHD	8.2710e-003	2.2820e-003
tblVehicleEF	HHD	898.24	11,332.25
tblVehicleEF	HHD	1,140.56	1,433.35
tblVehicleEF	HHD	0.07	0.02
tblVehicleEF	HHD	0.14	1.80
tblVehicleEF	HHD	0.18	0.23
tblVehicleEF	HHD	5.18	62.43
tblVehicleEF	HHD	2.23	1.59
tblVehicleEF	HHD	2.38	2.67
tblVehicleEF	HHD	1.8800e-003	0.03
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	1.7990e-003	0.03
tblVehicleEF	HHD	0.03	0.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	HHD	8.8750e-003	8.8380e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	3.0000e-006	2.5580e-003
tblVehicleEF	HHD	9.6000e-005	3.4000e-005
tblVehicleEF	HHD	0.47	5.14
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	3.7000e-005	1.3900e-004
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	8.2280e-003	0.10
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	3.0000e-006	2.5580e-003
tblVehicleEF	HHD	9.6000e-005	3.4000e-005
tblVehicleEF	HHD	0.54	6.36
tblVehicleEF	HHD	0.12	0.08
tblVehicleEF	HHD	3.7000e-005	1.3900e-004
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.80
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	6.78	80.34
tblVehicleEF	HHD	0.59	0.57
tblVehicleEF	HHD	9.0340e-003	5.0770e-003
tblVehicleEF	HHD	925.14	13,127.44
tblVehicleEF	HHD	1,140.55	1,652.70
tblVehicleEF	HHD	0.07	0.05
tblVehicleEF	HHD	0.15	2.08
tblVehicleEF	HHD	0.18	0.26
tblVehicleEF	HHD	1.0000e-006	8.0000e-006

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	HHD	5.80	70.64
tblVehicleEF	HHD	2.31	2.06
tblVehicleEF	HHD	2.38	2.75
tblVehicleEF	HHD	2.4670e-003	0.04
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	2.3600e-003	0.04
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8750e-003	8.8310e-003
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	1.0000e-006	2.0000e-006
tblVehicleEF	HHD	2.0000e-006	8.0720e-003
tblVehicleEF	HHD	9.7000e-005	1.1600e-004
tblVehicleEF	HHD	0.40	4.92
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.4000e-005	3.1900e-004
tblVehicleEF	HHD	2.0000e-006	1.0000e-006
tblVehicleEF	HHD	8.4750e-003	0.12
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	2.0000e-006	8.0720e-003
tblVehicleEF	HHD	9.7000e-005	1.1600e-004
tblVehicleEF	HHD	0.47	6.17
tblVehicleEF	HHD	0.12	0.11
tblVehicleEF	HHD	4.4000e-005	3.1900e-004
tblVehicleEF	HHD	3.0000e-006	1.0000e-006
tblVehicleEF	LDA	7.6500e-004	1.9870e-003
tblVehicleEF	LDA	0.02	0.05

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDA	0.37	0.57
tblVehicleEF	LDA	1.46	2.34
tblVehicleEF	LDA	211.38	252.96
tblVehicleEF	LDA	42.39	60.27
tblVehicleEF	LDA	3.0290e-003	3.7030e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.11	0.20
tblVehicleEF	LDA	0.04	7.0230e-003
tblVehicleEF	LDA	7.3200e-004	1.2570e-003
tblVehicleEF	LDA	9.5500e-004	1.6670e-003
tblVehicleEF	LDA	0.02	2.4580e-003
tblVehicleEF	LDA	6.7300e-004	1.1560e-003
tblVehicleEF	LDA	8.7800e-004	1.5330e-003
tblVehicleEF	LDA	0.02	1.20
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	2.3660e-003	7.1680e-003
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.09	0.23
tblVehicleEF	LDA	1.9030e-003	2.5010e-003
tblVehicleEF	LDA	3.8100e-004	5.9600e-004
tblVehicleEF	LDA	0.02	1.20
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	3.4330e-003	0.01
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.09	0.25
tblVehicleEF	LDA	8.3500e-004	1.9740e-003
tblVehicleEF	LDA	0.02	0.05
tblVehicleEF	LDA	0.41	0.58

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDA	1.21	2.29
tblVehicleEF	LDA	223.11	253.65
tblVehicleEF	LDA	41.93	60.06
tblVehicleEF	LDA	2.8550e-003	3.6470e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.10	0.20
tblVehicleEF	LDA	0.04	7.0210e-003
tblVehicleEF	LDA	7.3200e-004	1.2510e-003
tblVehicleEF	LDA	9.5500e-004	1.6610e-003
tblVehicleEF	LDA	0.02	2.4570e-003
tblVehicleEF	LDA	6.7300e-004	1.1520e-003
tblVehicleEF	LDA	8.7800e-004	1.5270e-003
tblVehicleEF	LDA	0.03	1.22
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	2.5480e-003	7.0860e-003
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	2.0090e-003	2.5070e-003
tblVehicleEF	LDA	3.7700e-004	5.9400e-004
tblVehicleEF	LDA	0.03	1.22
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	3.6980e-003	0.01
tblVehicleEF	LDA	0.02	0.19
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	7.4800e-004	2.8490e-003
tblVehicleEF	LDA	0.02	0.07
tblVehicleEF	LDA	0.36	0.70
tblVehicleEF	LDA	1.57	3.25

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDA	209.26	281.69
tblVehicleEF	LDA	42.58	68.09
tblVehicleEF	LDA	3.0480e-003	4.6970e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.04
tblVehicleEF	LDA	0.11	0.25
tblVehicleEF	LDA	0.04	7.1270e-003
tblVehicleEF	LDA	7.3200e-004	1.6660e-003
tblVehicleEF	LDA	9.5500e-004	2.0740e-003
tblVehicleEF	LDA	0.02	2.4940e-003
tblVehicleEF	LDA	6.7300e-004	1.5340e-003
tblVehicleEF	LDA	8.7800e-004	1.9070e-003
tblVehicleEF	LDA	0.01	1.35
tblVehicleEF	LDA	0.05	0.09
tblVehicleEF	LDA	2.3270e-003	0.01
tblVehicleEF	LDA	0.03	0.22
tblVehicleEF	LDA	0.09	0.33
tblVehicleEF	LDA	1.8840e-003	2.7840e-003
tblVehicleEF	LDA	3.8300e-004	6.7300e-004
tblVehicleEF	LDA	0.01	1.35
tblVehicleEF	LDA	0.05	0.09
tblVehicleEF	LDA	3.3750e-003	0.02
tblVehicleEF	LDA	0.03	0.22
tblVehicleEF	LDA	0.10	0.36
tblVehicleEF	LDT1	1.4080e-003	7.4770e-003
tblVehicleEF	LDT1	0.03	0.10
tblVehicleEF	LDT1	0.47	1.41
tblVehicleEF	LDT1	1.63	4.84
tblVehicleEF	LDT1	260.19	340.26

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT1	53.01	83.40
tblVehicleEF	LDT1	3.4690e-003	9.3350e-003
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.03	0.12
tblVehicleEF	LDT1	0.14	0.37
tblVehicleEF	LDT1	0.04	9.2390e-003
tblVehicleEF	LDT1	8.9400e-004	2.1880e-003
tblVehicleEF	LDT1	1.1660e-003	2.7210e-003
tblVehicleEF	LDT1	0.02	3.2340e-003
tblVehicleEF	LDT1	8.2200e-004	2.0130e-003
tblVehicleEF	LDT1	1.0720e-003	2.5020e-003
tblVehicleEF	LDT1	0.04	3.05
tblVehicleEF	LDT1	0.09	0.18
tblVehicleEF	LDT1	5.1960e-003	0.03
tblVehicleEF	LDT1	0.05	0.53
tblVehicleEF	LDT1	0.12	0.51
tblVehicleEF	LDT1	2.3410e-003	3.3640e-003
tblVehicleEF	LDT1	4.7700e-004	8.2400e-004
tblVehicleEF	LDT1	0.04	3.05
tblVehicleEF	LDT1	0.09	0.18
tblVehicleEF	LDT1	7.5820e-003	0.05
tblVehicleEF	LDT1	0.05	0.53
tblVehicleEF	LDT1	0.13	0.56
tblVehicleEF	LDT1	1.5300e-003	7.4210e-003
tblVehicleEF	LDT1	0.03	0.10
tblVehicleEF	LDT1	0.52	1.43
tblVehicleEF	LDT1	1.35	4.70
tblVehicleEF	LDT1	272.49	341.45
tblVehicleEF	LDT1	52.48	83.03

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT1	3.2420e-003	9.1450e-003
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.02	0.12
tblVehicleEF	LDT1	0.13	0.37
tblVehicleEF	LDT1	0.04	9.2400e-003
tblVehicleEF	LDT1	8.9400e-004	2.1720e-003
tblVehicleEF	LDT1	1.1660e-003	2.7020e-003
tblVehicleEF	LDT1	0.02	3.2340e-003
tblVehicleEF	LDT1	8.2200e-004	1.9980e-003
tblVehicleEF	LDT1	1.0720e-003	2.4850e-003
tblVehicleEF	LDT1	0.06	3.10
tblVehicleEF	LDT1	0.09	0.18
tblVehicleEF	LDT1	5.5870e-003	0.03
tblVehicleEF	LDT1	0.04	0.53
tblVehicleEF	LDT1	0.11	0.50
tblVehicleEF	LDT1	2.4520e-003	3.3760e-003
tblVehicleEF	LDT1	4.7200e-004	8.2100e-004
tblVehicleEF	LDT1	0.06	3.10
tblVehicleEF	LDT1	0.09	0.18
tblVehicleEF	LDT1	8.1520e-003	0.05
tblVehicleEF	LDT1	0.04	0.53
tblVehicleEF	LDT1	0.12	0.54
tblVehicleEF	LDT1	1.3790e-003	0.01
tblVehicleEF	LDT1	0.03	0.13
tblVehicleEF	LDT1	0.46	1.84
tblVehicleEF	LDT1	1.75	6.81
tblVehicleEF	LDT1	257.96	362.43
tblVehicleEF	LDT1	53.23	91.86
tblVehicleEF	LDT1	3.4940e-003	0.01

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.03	0.19
tblVehicleEF	LDT1	0.14	0.48
tblVehicleEF	LDT1	0.04	9.2870e-003
tblVehicleEF	LDT1	8.9400e-004	2.8810e-003
tblVehicleEF	LDT1	1.1660e-003	3.4250e-003
tblVehicleEF	LDT1	0.02	3.2500e-003
tblVehicleEF	LDT1	8.2200e-004	2.6510e-003
tblVehicleEF	LDT1	1.0720e-003	3.1490e-003
tblVehicleEF	LDT1	0.03	3.43
tblVehicleEF	LDT1	0.10	0.21
tblVehicleEF	LDT1	5.1100e-003	0.05
tblVehicleEF	LDT1	0.06	0.66
tblVehicleEF	LDT1	0.13	0.71
tblVehicleEF	LDT1	2.3210e-003	3.5830e-003
tblVehicleEF	LDT1	4.7900e-004	9.0800e-004
tblVehicleEF	LDT1	0.03	3.43
tblVehicleEF	LDT1	0.10	0.21
tblVehicleEF	LDT1	7.4550e-003	0.07
tblVehicleEF	LDT1	0.06	0.66
tblVehicleEF	LDT1	0.14	0.77
tblVehicleEF	LDT2	1.3510e-003	2.9450e-003
tblVehicleEF	LDT2	0.03	0.07
tblVehicleEF	LDT2	0.48	0.75
tblVehicleEF	LDT2	1.97	2.95
tblVehicleEF	LDT2	258.59	343.90
tblVehicleEF	LDT2	52.65	80.72
tblVehicleEF	LDT2	3.5460e-003	5.3400e-003
tblVehicleEF	LDT2	0.02	0.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT2	0.02	0.05
tblVehicleEF	LDT2	0.14	0.28
tblVehicleEF	LDT2	0.04	8.7990e-003
tblVehicleEF	LDT2	8.4200e-004	1.4140e-003
tblVehicleEF	LDT2	1.0220e-003	1.7750e-003
tblVehicleEF	LDT2	0.02	3.0800e-003
tblVehicleEF	LDT2	7.7600e-004	1.3010e-003
tblVehicleEF	LDT2	9.4000e-004	1.6320e-003
tblVehicleEF	LDT2	0.04	1.32
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	4.7870e-003	0.01
tblVehicleEF	LDT2	0.04	0.21
tblVehicleEF	LDT2	0.13	0.30
tblVehicleEF	LDT2	2.3280e-003	3.3990e-003
tblVehicleEF	LDT2	4.7400e-004	7.9800e-004
tblVehicleEF	LDT2	0.04	1.32
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	6.9380e-003	0.02
tblVehicleEF	LDT2	0.04	0.21
tblVehicleEF	LDT2	0.14	0.33
tblVehicleEF	LDT2	1.4700e-003	2.9320e-003
tblVehicleEF	LDT2	0.03	0.07
tblVehicleEF	LDT2	0.54	0.76
tblVehicleEF	LDT2	1.63	2.88
tblVehicleEF	LDT2	269.67	344.65
tblVehicleEF	LDT2	52.00	80.46
tblVehicleEF	LDT2	3.3370e-003	5.2550e-003
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.02	0.05

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT2	0.12	0.27
tblVehicleEF	LDT2	0.04	8.7980e-003
tblVehicleEF	LDT2	8.4200e-004	1.4100e-003
tblVehicleEF	LDT2	1.0220e-003	1.7710e-003
tblVehicleEF	LDT2	0.02	3.0790e-003
tblVehicleEF	LDT2	7.7600e-004	1.2970e-003
tblVehicleEF	LDT2	9.4000e-004	1.6280e-003
tblVehicleEF	LDT2	0.06	1.34
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	5.1410e-003	0.01
tblVehicleEF	LDT2	0.03	0.21
tblVehicleEF	LDT2	0.11	0.30
tblVehicleEF	LDT2	2.4280e-003	3.4070e-003
tblVehicleEF	LDT2	4.6800e-004	7.9500e-004
tblVehicleEF	LDT2	0.06	1.34
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	7.4550e-003	0.02
tblVehicleEF	LDT2	0.03	0.21
tblVehicleEF	LDT2	0.12	0.32
tblVehicleEF	LDT2	1.3220e-003	4.0080e-003
tblVehicleEF	LDT2	0.03	0.09
tblVehicleEF	LDT2	0.47	0.90
tblVehicleEF	LDT2	2.12	4.00
tblVehicleEF	LDT2	256.59	375.58
tblVehicleEF	LDT2	52.91	90.06
tblVehicleEF	LDT2	3.5690e-003	6.9200e-003
tblVehicleEF	LDT2	0.02	0.04
tblVehicleEF	LDT2	0.03	0.08
tblVehicleEF	LDT2	0.14	0.37

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LDT2	0.04	8.8250e-003
tblVehicleEF	LDT2	8.4200e-004	1.7680e-003
tblVehicleEF	LDT2	1.0220e-003	2.1270e-003
tblVehicleEF	LDT2	0.02	3.0890e-003
tblVehicleEF	LDT2	7.7600e-004	1.6270e-003
tblVehicleEF	LDT2	9.4000e-004	1.9560e-003
tblVehicleEF	LDT2	0.03	1.45
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	4.7090e-003	0.02
tblVehicleEF	LDT2	0.04	0.24
tblVehicleEF	LDT2	0.14	0.42
tblVehicleEF	LDT2	2.3100e-003	3.7120e-003
tblVehicleEF	LDT2	4.7600e-004	8.9000e-004
tblVehicleEF	LDT2	0.03	1.45
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	6.8240e-003	0.02
tblVehicleEF	LDT2	0.04	0.24
tblVehicleEF	LDT2	0.15	0.46
tblVehicleEF	LHD1	3.4250e-003	0.06
tblVehicleEF	LHD1	4.4990e-003	6.3690e-003
tblVehicleEF	LHD1	6.3550e-003	0.02
tblVehicleEF	LHD1	0.16	2.53
tblVehicleEF	LHD1	0.42	0.70
tblVehicleEF	LHD1	0.73	1.82
tblVehicleEF	LHD1	8.05	114.95
tblVehicleEF	LHD1	643.53	686.69
tblVehicleEF	LHD1	8.38	14.76
tblVehicleEF	LHD1	7.9500e-004	9.1300e-003
tblVehicleEF	LHD1	0.04	0.04

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.05	0.68
tblVehicleEF	LHD1	0.24	0.62
tblVehicleEF	LHD1	0.17	0.33
tblVehicleEF	LHD1	1.0700e-003	0.01
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.01	9.5540e-003
tblVehicleEF	LHD1	6.8660e-003	0.02
tblVehicleEF	LHD1	1.6700e-004	1.6200e-004
tblVehicleEF	LHD1	1.0240e-003	9.5810e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5310e-003	2.3890e-003
tblVehicleEF	LHD1	6.5300e-003	0.01
tblVehicleEF	LHD1	1.5400e-004	1.4900e-004
tblVehicleEF	LHD1	9.3300e-004	1.52
tblVehicleEF	LHD1	0.04	0.02
tblVehicleEF	LHD1	0.01	0.26
tblVehicleEF	LHD1	0.07	0.08
tblVehicleEF	LHD1	0.08	0.13
tblVehicleEF	LHD1	0.03	0.08
tblVehicleEF	LHD1	7.8000e-005	1.1170e-003
tblVehicleEF	LHD1	6.2600e-003	6.6900e-003
tblVehicleEF	LHD1	8.3000e-005	1.4600e-004
tblVehicleEF	LHD1	9.3300e-004	1.52
tblVehicleEF	LHD1	0.04	0.02
tblVehicleEF	LHD1	0.02	0.37
tblVehicleEF	LHD1	0.09	0.10
tblVehicleEF	LHD1	0.08	0.13
tblVehicleEF	LHD1	0.03	0.09

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD1	3.4320e-003	0.06
tblVehicleEF	LHD1	4.5330e-003	6.3150e-003
tblVehicleEF	LHD1	6.0940e-003	0.02
tblVehicleEF	LHD1	0.16	2.53
tblVehicleEF	LHD1	0.42	0.70
tblVehicleEF	LHD1	0.70	1.82
tblVehicleEF	LHD1	8.05	114.85
tblVehicleEF	LHD1	643.53	685.89
tblVehicleEF	LHD1	8.32	14.74
tblVehicleEF	LHD1	7.9600e-004	9.1300e-003
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.05	0.67
tblVehicleEF	LHD1	0.23	0.61
tblVehicleEF	LHD1	0.16	0.33
tblVehicleEF	LHD1	1.0700e-003	0.01
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.01	9.5550e-003
tblVehicleEF	LHD1	6.8660e-003	0.01
tblVehicleEF	LHD1	1.6700e-004	1.6000e-004
tblVehicleEF	LHD1	1.0240e-003	9.5850e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5310e-003	2.3890e-003
tblVehicleEF	LHD1	6.5300e-003	0.01
tblVehicleEF	LHD1	1.5400e-004	1.4700e-004
tblVehicleEF	LHD1	1.3550e-003	1.54
tblVehicleEF	LHD1	0.04	0.02
tblVehicleEF	LHD1	0.01	0.26
tblVehicleEF	LHD1	0.07	0.08

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD1	0.07	0.13
tblVehicleEF	LHD1	0.03	0.08
tblVehicleEF	LHD1	7.8000e-005	1.1160e-003
tblVehicleEF	LHD1	6.2600e-003	6.6820e-003
tblVehicleEF	LHD1	8.2000e-005	1.4600e-004
tblVehicleEF	LHD1	1.3550e-003	1.54
tblVehicleEF	LHD1	0.04	0.02
tblVehicleEF	LHD1	0.02	0.37
tblVehicleEF	LHD1	0.09	0.10
tblVehicleEF	LHD1	0.07	0.13
tblVehicleEF	LHD1	0.03	0.09
tblVehicleEF	LHD1	3.4220e-003	0.08
tblVehicleEF	LHD1	4.4840e-003	0.01
tblVehicleEF	LHD1	6.4730e-003	0.02
tblVehicleEF	LHD1	0.16	2.69
tblVehicleEF	LHD1	0.42	1.01
tblVehicleEF	LHD1	0.75	1.94
tblVehicleEF	LHD1	8.05	126.03
tblVehicleEF	LHD1	643.52	785.08
tblVehicleEF	LHD1	8.41	16.18
tblVehicleEF	LHD1	7.9400e-004	9.8600e-003
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.05	0.83
tblVehicleEF	LHD1	0.24	1.03
tblVehicleEF	LHD1	0.17	0.42
tblVehicleEF	LHD1	1.0700e-003	0.01
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.6600e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD1	6.8660e-003	0.02
tblVehicleEF	LHD1	1.6700e-004	2.3900e-004
tblVehicleEF	LHD1	1.0240e-003	9.9280e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5310e-003	2.4150e-003
tblVehicleEF	LHD1	6.5300e-003	0.02
tblVehicleEF	LHD1	1.5400e-004	2.2000e-004
tblVehicleEF	LHD1	8.0600e-004	1.93
tblVehicleEF	LHD1	0.04	0.03
tblVehicleEF	LHD1	0.01	0.31
tblVehicleEF	LHD1	0.07	0.12
tblVehicleEF	LHD1	0.09	0.18
tblVehicleEF	LHD1	0.03	0.11
tblVehicleEF	LHD1	7.8000e-005	1.2250e-003
tblVehicleEF	LHD1	6.2600e-003	7.6540e-003
tblVehicleEF	LHD1	8.3000e-005	1.6000e-004
tblVehicleEF	LHD1	8.0600e-004	1.93
tblVehicleEF	LHD1	0.04	0.03
tblVehicleEF	LHD1	0.02	0.44
tblVehicleEF	LHD1	0.09	0.15
tblVehicleEF	LHD1	0.09	0.18
tblVehicleEF	LHD1	0.03	0.12
tblVehicleEF	LHD2	2.2940e-003	0.04
tblVehicleEF	LHD2	4.9830e-003	5.7410e-003
tblVehicleEF	LHD2	3.6980e-003	9.6360e-003
tblVehicleEF	LHD2	0.13	1.83
tblVehicleEF	LHD2	0.48	0.47
tblVehicleEF	LHD2	0.43	1.02
tblVehicleEF	LHD2	12.60	170.75

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	647.55	741.80
tblVehicleEF	LHD2	5.91	8.39
tblVehicleEF	LHD2	1.6340e-003	0.02
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	9.8400e-003	0.02
tblVehicleEF	LHD2	0.07	1.05
tblVehicleEF	LHD2	0.29	0.72
tblVehicleEF	LHD2	0.11	0.19
tblVehicleEF	LHD2	1.4980e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.7000e-005	6.9000e-005
tblVehicleEF	LHD2	1.4330e-003	0.02
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7180e-003	2.6390e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.9000e-005	6.4000e-005
tblVehicleEF	LHD2	5.0100e-004	0.83
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	0.01	0.19
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.05
tblVehicleEF	LHD2	1.2000e-004	1.6370e-003
tblVehicleEF	LHD2	6.2430e-003	7.1400e-003
tblVehicleEF	LHD2	5.8000e-005	8.3000e-005
tblVehicleEF	LHD2	5.0100e-004	0.83
tblVehicleEF	LHD2	0.02	0.01

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	0.02	0.26
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.05
tblVehicleEF	LHD2	2.2980e-003	0.04
tblVehicleEF	LHD2	5.0000e-003	5.7050e-003
tblVehicleEF	LHD2	3.5470e-003	9.5460e-003
tblVehicleEF	LHD2	0.13	1.83
tblVehicleEF	LHD2	0.48	0.47
tblVehicleEF	LHD2	0.41	1.02
tblVehicleEF	LHD2	12.60	170.68
tblVehicleEF	LHD2	647.55	741.19
tblVehicleEF	LHD2	5.87	8.36
tblVehicleEF	LHD2	1.6350e-003	0.02
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	9.5370e-003	0.02
tblVehicleEF	LHD2	0.07	1.05
tblVehicleEF	LHD2	0.28	0.71
tblVehicleEF	LHD2	0.10	0.19
tblVehicleEF	LHD2	1.4980e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.7000e-005	6.8000e-005
tblVehicleEF	LHD2	1.4330e-003	0.02
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7180e-003	2.6400e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.9000e-005	6.3000e-005

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	7.2700e-004	0.84
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	0.01	0.19
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.05
tblVehicleEF	LHD2	1.2000e-004	1.6360e-003
tblVehicleEF	LHD2	6.2440e-003	7.1340e-003
tblVehicleEF	LHD2	5.8000e-005	8.3000e-005
tblVehicleEF	LHD2	7.2700e-004	0.84
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	0.02	0.26
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.05
tblVehicleEF	LHD2	2.2920e-003	0.05
tblVehicleEF	LHD2	4.9750e-003	8.1630e-003
tblVehicleEF	LHD2	3.7660e-003	0.01
tblVehicleEF	LHD2	0.13	2.01
tblVehicleEF	LHD2	0.48	0.65
tblVehicleEF	LHD2	0.44	1.17
tblVehicleEF	LHD2	12.60	185.66
tblVehicleEF	LHD2	647.54	843.22
tblVehicleEF	LHD2	5.93	9.91
tblVehicleEF	LHD2	1.6340e-003	0.02
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.07	1.29
tblVehicleEF	LHD2	0.29	1.11

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	LHD2	0.11	0.26
tblVehicleEF	LHD2	1.4980e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.03
tblVehicleEF	LHD2	9.7000e-005	1.1000e-004
tblVehicleEF	LHD2	1.4330e-003	0.02
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7180e-003	2.6710e-003
tblVehicleEF	LHD2	0.01	0.03
tblVehicleEF	LHD2	8.9000e-005	1.0100e-004
tblVehicleEF	LHD2	4.2100e-004	1.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.01	0.23
tblVehicleEF	LHD2	0.10	0.14
tblVehicleEF	LHD2	0.04	0.08
tblVehicleEF	LHD2	0.02	0.07
tblVehicleEF	LHD2	1.2000e-004	1.7810e-003
tblVehicleEF	LHD2	6.2430e-003	8.1260e-003
tblVehicleEF	LHD2	5.9000e-005	9.8000e-005
tblVehicleEF	LHD2	4.2100e-004	1.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.02	0.32
tblVehicleEF	LHD2	0.11	0.16
tblVehicleEF	LHD2	0.04	0.08
tblVehicleEF	LHD2	0.02	0.07
tblVehicleEF	MCY	0.35	0.20
tblVehicleEF	MCY	0.23	0.16
tblVehicleEF	MCY	18.43	13.05

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MCY	8.83	7.68
tblVehicleEF	MCY	219.73	203.25
tblVehicleEF	MCY	58.02	45.52
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	7.1880e-003
tblVehicleEF	MCY	1.14	0.56
tblVehicleEF	MCY	0.27	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.3980e-003	2.4700e-003
tblVehicleEF	MCY	2.7840e-003	3.3630e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.2360e-003	2.3070e-003
tblVehicleEF	MCY	2.6000e-003	3.1550e-003
tblVehicleEF	MCY	0.95	4.15
tblVehicleEF	MCY	0.70	3.60
tblVehicleEF	MCY	2.32	1.27
tblVehicleEF	MCY	0.39	3.78
tblVehicleEF	MCY	1.78	1.21
tblVehicleEF	MCY	2.1740e-003	2.0090e-003
tblVehicleEF	MCY	5.7400e-004	4.5000e-004
tblVehicleEF	MCY	0.95	4.15
tblVehicleEF	MCY	0.70	3.60
tblVehicleEF	MCY	2.91	1.55
tblVehicleEF	MCY	0.39	3.78
tblVehicleEF	MCY	1.94	1.31
tblVehicleEF	MCY	0.34	0.19
tblVehicleEF	MCY	0.21	0.16
tblVehicleEF	MCY	17.64	13.00
tblVehicleEF	MCY	7.84	7.61

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MCY	218.28	203.17
tblVehicleEF	MCY	55.72	45.29
tblVehicleEF	MCY	0.06	0.04
tblVehicleEF	MCY	0.01	7.1420e-003
tblVehicleEF	MCY	1.03	0.56
tblVehicleEF	MCY	0.25	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.3980e-003	2.4710e-003
tblVehicleEF	MCY	2.7840e-003	3.3530e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.2360e-003	2.3090e-003
tblVehicleEF	MCY	2.6000e-003	3.1450e-003
tblVehicleEF	MCY	1.53	4.26
tblVehicleEF	MCY	0.81	3.61
tblVehicleEF	MCY	2.26	1.27
tblVehicleEF	MCY	0.35	3.77
tblVehicleEF	MCY	1.56	1.19
tblVehicleEF	MCY	2.1600e-003	2.0090e-003
tblVehicleEF	MCY	5.5100e-004	4.4800e-004
tblVehicleEF	MCY	1.53	4.26
tblVehicleEF	MCY	0.81	3.61
tblVehicleEF	MCY	2.84	1.54
tblVehicleEF	MCY	0.35	3.77
tblVehicleEF	MCY	1.70	1.30
tblVehicleEF	MCY	0.35	0.21
tblVehicleEF	MCY	0.25	0.19
tblVehicleEF	MCY	18.98	14.65
tblVehicleEF	MCY	9.31	8.20
tblVehicleEF	MCY	220.72	205.59

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MCY	59.15	50.21
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	8.5500e-003
tblVehicleEF	MCY	1.15	0.62
tblVehicleEF	MCY	0.27	0.15
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.3980e-003	2.3570e-003
tblVehicleEF	MCY	2.7840e-003	3.5430e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	2.2360e-003	2.2070e-003
tblVehicleEF	MCY	2.6000e-003	3.3360e-003
tblVehicleEF	MCY	0.87	4.02
tblVehicleEF	MCY	0.92	3.58
tblVehicleEF	MCY	2.35	1.44
tblVehicleEF	MCY	0.47	4.05
tblVehicleEF	MCY	1.89	1.43
tblVehicleEF	MCY	2.1840e-003	2.0320e-003
tblVehicleEF	MCY	5.8500e-004	4.9600e-004
tblVehicleEF	MCY	0.87	4.02
tblVehicleEF	MCY	0.92	3.58
tblVehicleEF	MCY	2.94	1.72
tblVehicleEF	MCY	0.47	4.05
tblVehicleEF	MCY	2.06	1.55
tblVehicleEF	MDV	1.3140e-003	3.5470e-003
tblVehicleEF	MDV	0.03	0.08
tblVehicleEF	MDV	0.46	0.81
tblVehicleEF	MDV	1.98	3.14
tblVehicleEF	MDV	312.36	413.72
tblVehicleEF	MDV	62.69	96.88

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MDV	4.6900e-003	6.9070e-003
tblVehicleEF	MDV	0.02	0.04
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	0.14	0.33
tblVehicleEF	MDV	0.04	8.8900e-003
tblVehicleEF	MDV	8.2100e-004	1.4410e-003
tblVehicleEF	MDV	1.0180e-003	1.7910e-003
tblVehicleEF	MDV	0.02	3.1120e-003
tblVehicleEF	MDV	7.5700e-004	1.3280e-003
tblVehicleEF	MDV	9.3600e-004	1.6460e-003
tblVehicleEF	MDV	0.05	1.59
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	4.6820e-003	0.01
tblVehicleEF	MDV	0.04	0.26
tblVehicleEF	MDV	0.14	0.38
tblVehicleEF	MDV	2.8150e-003	4.0870e-003
tblVehicleEF	MDV	5.6400e-004	9.5800e-004
tblVehicleEF	MDV	0.05	1.59
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	6.7670e-003	0.02
tblVehicleEF	MDV	0.04	0.26
tblVehicleEF	MDV	0.15	0.41
tblVehicleEF	MDV	1.4300e-003	3.5160e-003
tblVehicleEF	MDV	0.03	0.08
tblVehicleEF	MDV	0.52	0.82
tblVehicleEF	MDV	1.64	3.06
tblVehicleEF	MDV	323.20	414.37
tblVehicleEF	MDV	62.04	96.57
tblVehicleEF	MDV	4.4850e-003	6.7840e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MDV	0.02	0.04
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	0.13	0.33
tblVehicleEF	MDV	0.04	8.8890e-003
tblVehicleEF	MDV	8.2100e-004	1.4340e-003
tblVehicleEF	MDV	1.0180e-003	1.7810e-003
tblVehicleEF	MDV	0.02	3.1110e-003
tblVehicleEF	MDV	7.5700e-004	1.3220e-003
tblVehicleEF	MDV	9.3600e-004	1.6380e-003
tblVehicleEF	MDV	0.07	1.61
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	5.0240e-003	0.01
tblVehicleEF	MDV	0.03	0.26
tblVehicleEF	MDV	0.12	0.37
tblVehicleEF	MDV	2.9130e-003	4.0940e-003
tblVehicleEF	MDV	5.5800e-004	9.5500e-004
tblVehicleEF	MDV	0.07	1.61
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	7.2660e-003	0.02
tblVehicleEF	MDV	0.03	0.26
tblVehicleEF	MDV	0.13	0.40
tblVehicleEF	MDV	1.2860e-003	5.3930e-003
tblVehicleEF	MDV	0.03	0.11
tblVehicleEF	MDV	0.45	1.06
tblVehicleEF	MDV	2.12	4.42
tblVehicleEF	MDV	310.40	455.28
tblVehicleEF	MDV	62.96	108.53
tblVehicleEF	MDV	4.7130e-003	9.7720e-003
tblVehicleEF	MDV	0.02	0.04

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MDV	0.02	0.12
tblVehicleEF	MDV	0.15	0.48
tblVehicleEF	MDV	0.04	8.9880e-003
tblVehicleEF	MDV	8.2100e-004	1.8920e-003
tblVehicleEF	MDV	1.0180e-003	2.2530e-003
tblVehicleEF	MDV	0.02	3.1460e-003
tblVehicleEF	MDV	7.5700e-004	1.7460e-003
tblVehicleEF	MDV	9.3600e-004	2.0720e-003
tblVehicleEF	MDV	0.04	1.79
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	4.6060e-003	0.02
tblVehicleEF	MDV	0.05	0.30
tblVehicleEF	MDV	0.15	0.57
tblVehicleEF	MDV	2.7980e-003	4.4980e-003
tblVehicleEF	MDV	5.6700e-004	1.0730e-003
tblVehicleEF	MDV	0.04	1.79
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	6.6560e-003	0.03
tblVehicleEF	MDV	0.05	0.30
tblVehicleEF	MDV	0.16	0.63
tblVehicleEF	MH	4.6040e-003	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.27	0.94
tblVehicleEF	MH	1.44	2.11
tblVehicleEF	MH	1,315.89	1,670.37
tblVehicleEF	MH	14.31	21.04
tblVehicleEF	MH	0.05	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.15	1.58

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MH	0.24	0.31
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	1.8900e-004	2.5800e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.3170e-003	3.3220e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	1.7400e-004	2.3800e-004
tblVehicleEF	MH	0.29	2.95
tblVehicleEF	MH	0.02	7.37
tblVehicleEF	MH	0.04	0.08
tblVehicleEF	MH	3.2260e-003	0.17
tblVehicleEF	MH	0.07	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.4200e-004	2.0800e-004
tblVehicleEF	MH	0.29	2.95
tblVehicleEF	MH	0.02	7.37
tblVehicleEF	MH	0.05	0.10
tblVehicleEF	MH	3.2260e-003	0.17
tblVehicleEF	MH	0.07	0.11
tblVehicleEF	MH	4.6750e-003	9.9380e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.27	0.91
tblVehicleEF	MH	1.35	2.08
tblVehicleEF	MH	1,315.90	1,669.46
tblVehicleEF	MH	14.16	20.96
tblVehicleEF	MH	0.05	0.07
tblVehicleEF	MH	0.03	0.03

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MH	1.10	1.57
tblVehicleEF	MH	0.23	0.31
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	1.8900e-004	2.5500e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.3170e-003	3.3230e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	1.7400e-004	2.3500e-004
tblVehicleEF	MH	0.40	3.00
tblVehicleEF	MH	0.02	7.35
tblVehicleEF	MH	0.04	0.07
tblVehicleEF	MH	3.1210e-003	0.17
tblVehicleEF	MH	0.06	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.4000e-004	2.0700e-004
tblVehicleEF	MH	0.40	3.00
tblVehicleEF	MH	0.02	7.35
tblVehicleEF	MH	0.05	0.10
tblVehicleEF	MH	3.1210e-003	0.17
tblVehicleEF	MH	0.07	0.11
tblVehicleEF	MH	4.5730e-003	0.01
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.26	1.61
tblVehicleEF	MH	1.48	2.57
tblVehicleEF	MH	1,315.89	1,699.67
tblVehicleEF	MH	14.39	22.98
tblVehicleEF	MH	0.05	0.07

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.14	1.69
tblVehicleEF	MH	0.25	0.30
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.04
tblVehicleEF	MH	1.8900e-004	3.1900e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.3170e-003	3.2890e-003
tblVehicleEF	MH	0.02	0.04
tblVehicleEF	MH	1.7400e-004	2.9400e-004
tblVehicleEF	MH	0.26	3.41
tblVehicleEF	MH	0.02	9.37
tblVehicleEF	MH	0.04	0.10
tblVehicleEF	MH	3.5200e-003	0.22
tblVehicleEF	MH	0.07	0.12
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.4200e-004	2.2700e-004
tblVehicleEF	MH	0.26	3.41
tblVehicleEF	MH	0.02	9.37
tblVehicleEF	MH	0.05	0.13
tblVehicleEF	MH	3.5200e-003	0.22
tblVehicleEF	MH	0.08	0.13
tblVehicleEF	MHD	3.8780e-003	0.25
tblVehicleEF	MHD	9.2700e-004	0.01
tblVehicleEF	MHD	8.2820e-003	9.5600e-003
tblVehicleEF	MHD	0.41	8.81
tblVehicleEF	MHD	0.14	0.30
tblVehicleEF	MHD	0.79	1.07

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	63.64	1,724.30
tblVehicleEF	MHD	937.84	1,131.79
tblVehicleEF	MHD	8.13	9.53
tblVehicleEF	MHD	9.1740e-003	0.26
tblVehicleEF	MHD	0.12	0.13
tblVehicleEF	MHD	8.0270e-003	6.7900e-003
tblVehicleEF	MHD	0.34	8.99
tblVehicleEF	MHD	1.36	0.76
tblVehicleEF	MHD	1.70	1.17
tblVehicleEF	MHD	1.1300e-004	0.01
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	6.6470e-003	7.1540e-003
tblVehicleEF	MHD	1.1000e-004	1.1500e-004
tblVehicleEF	MHD	1.0800e-004	0.01
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.3510e-003	6.8340e-003
tblVehicleEF	MHD	1.0100e-004	1.0500e-004
tblVehicleEF	MHD	2.5800e-004	0.55
tblVehicleEF	MHD	0.01	6.3890e-003
tblVehicleEF	MHD	0.02	0.37
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	6.0400e-004	0.02
tblVehicleEF	MHD	8.9560e-003	0.01
tblVehicleEF	MHD	8.0000e-005	9.4000e-005
tblVehicleEF	MHD	2.5800e-004	0.55
tblVehicleEF	MHD	0.01	6.3890e-003
tblVehicleEF	MHD	0.03	0.68

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	3.6940e-003	0.25
tblVehicleEF	MHD	9.4200e-004	0.01
tblVehicleEF	MHD	7.9330e-003	9.4740e-003
tblVehicleEF	MHD	0.35	8.74
tblVehicleEF	MHD	0.14	0.29
tblVehicleEF	MHD	0.74	1.06
tblVehicleEF	MHD	63.20	1,721.96
tblVehicleEF	MHD	937.84	1,131.13
tblVehicleEF	MHD	8.05	9.48
tblVehicleEF	MHD	9.0740e-003	0.26
tblVehicleEF	MHD	0.12	0.13
tblVehicleEF	MHD	7.7830e-003	6.7670e-003
tblVehicleEF	MHD	0.32	8.89
tblVehicleEF	MHD	1.31	0.73
tblVehicleEF	MHD	1.69	1.18
tblVehicleEF	MHD	9.9000e-005	0.01
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	6.6470e-003	6.9530e-003
tblVehicleEF	MHD	1.1000e-004	1.1300e-004
tblVehicleEF	MHD	9.4000e-005	0.01
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.3510e-003	6.6410e-003
tblVehicleEF	MHD	1.0100e-004	1.0400e-004
tblVehicleEF	MHD	3.7700e-004	0.55
tblVehicleEF	MHD	0.01	6.3370e-003
tblVehicleEF	MHD	0.02	0.37

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	6.0000e-004	0.02
tblVehicleEF	MHD	8.9560e-003	0.01
tblVehicleEF	MHD	8.0000e-005	9.4000e-005
tblVehicleEF	MHD	3.7700e-004	0.55
tblVehicleEF	MHD	0.01	6.3370e-003
tblVehicleEF	MHD	0.02	0.68
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	4.1460e-003	0.28
tblVehicleEF	MHD	9.1900e-004	0.02
tblVehicleEF	MHD	8.4160e-003	0.01
tblVehicleEF	MHD	0.49	11.28
tblVehicleEF	MHD	0.13	0.56
tblVehicleEF	MHD	0.81	1.58
tblVehicleEF	MHD	64.24	1,887.62
tblVehicleEF	MHD	937.84	1,285.82
tblVehicleEF	MHD	8.17	12.26
tblVehicleEF	MHD	9.3150e-003	0.28
tblVehicleEF	MHD	0.12	0.15
tblVehicleEF	MHD	8.1720e-003	8.5840e-003
tblVehicleEF	MHD	0.36	10.83
tblVehicleEF	MHD	1.36	1.19
tblVehicleEF	MHD	1.70	1.30
tblVehicleEF	MHD	1.3200e-004	0.03
tblVehicleEF	MHD	0.13	0.05

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	MHD	6.6470e-003	0.01
tblVehicleEF	MHD	1.1000e-004	1.5600e-004
tblVehicleEF	MHD	1.2700e-004	0.03
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.3510e-003	0.01
tblVehicleEF	MHD	1.0100e-004	1.4300e-004
tblVehicleEF	MHD	2.1800e-004	0.83
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.02	0.46
tblVehicleEF	MHD	0.01	0.05
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	6.0900e-004	0.02
tblVehicleEF	MHD	8.9560e-003	0.01
tblVehicleEF	MHD	8.1000e-005	1.2100e-004
tblVehicleEF	MHD	2.1800e-004	0.83
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.03	0.82
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.01	0.07
tblVehicleEF	MHD	0.04	0.08
tblVehicleEF	OBUS	8.8730e-003	0.26
tblVehicleEF	OBUS	3.0810e-003	0.05
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.69	9.17
tblVehicleEF	OBUS	0.32	1.04
tblVehicleEF	OBUS	2.05	2.76
tblVehicleEF	OBUS	91.22	1,193.58
tblVehicleEF	OBUS	1,279.50	1,469.43

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	16.88	20.95
tblVehicleEF	OBUS	0.01	0.15
tblVehicleEF	OBUS	0.09	0.12
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.41	3.95
tblVehicleEF	OBUS	1.10	1.01
tblVehicleEF	OBUS	0.81	0.69
tblVehicleEF	OBUS	1.4100e-004	4.6030e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	8.2400e-003	0.02
tblVehicleEF	OBUS	2.1700e-004	2.3600e-004
tblVehicleEF	OBUS	1.3500e-004	4.3990e-003
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.8580e-003	0.02
tblVehicleEF	OBUS	2.0000e-004	2.1700e-004
tblVehicleEF	OBUS	1.4780e-003	2.46
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.06	0.83
tblVehicleEF	OBUS	0.02	0.07
tblVehicleEF	OBUS	0.09	0.10
tblVehicleEF	OBUS	0.10	0.13
tblVehicleEF	OBUS	8.6700e-004	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.6700e-004	2.0700e-004
tblVehicleEF	OBUS	1.4780e-003	2.46
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.08	1.22
tblVehicleEF	OBUS	0.03	0.13
tblVehicleEF	OBUS	0.09	0.10

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	0.11	0.14
tblVehicleEF	OBUS	8.9810e-003	0.26
tblVehicleEF	OBUS	3.1560e-003	0.05
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.69	9.20
tblVehicleEF	OBUS	0.32	1.03
tblVehicleEF	OBUS	1.92	2.74
tblVehicleEF	OBUS	90.17	1,193.76
tblVehicleEF	OBUS	1,279.51	1,468.06
tblVehicleEF	OBUS	16.65	20.88
tblVehicleEF	OBUS	0.01	0.15
tblVehicleEF	OBUS	0.09	0.12
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.39	3.91
tblVehicleEF	OBUS	1.06	0.99
tblVehicleEF	OBUS	0.80	0.69
tblVehicleEF	OBUS	1.2500e-004	4.5380e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	8.2400e-003	0.02
tblVehicleEF	OBUS	2.1700e-004	2.3500e-004
tblVehicleEF	OBUS	1.2000e-004	4.3370e-003
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.8580e-003	0.02
tblVehicleEF	OBUS	2.0000e-004	2.1600e-004
tblVehicleEF	OBUS	2.0740e-003	2.51
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.83
tblVehicleEF	OBUS	0.02	0.07
tblVehicleEF	OBUS	0.08	0.10

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	0.10	0.13
tblVehicleEF	OBUS	8.5700e-004	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.6500e-004	2.0600e-004
tblVehicleEF	OBUS	2.0740e-003	2.51
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.08	1.22
tblVehicleEF	OBUS	0.03	0.13
tblVehicleEF	OBUS	0.08	0.10
tblVehicleEF	OBUS	0.10	0.14
tblVehicleEF	OBUS	8.7450e-003	0.26
tblVehicleEF	OBUS	3.0480e-003	0.05
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.70	8.66
tblVehicleEF	OBUS	0.31	1.54
tblVehicleEF	OBUS	2.11	3.36
tblVehicleEF	OBUS	92.68	1,099.60
tblVehicleEF	OBUS	1,279.49	1,620.27
tblVehicleEF	OBUS	16.98	24.35
tblVehicleEF	OBUS	0.01	0.13
tblVehicleEF	OBUS	0.09	0.13
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.44	3.99
tblVehicleEF	OBUS	1.10	1.19
tblVehicleEF	OBUS	0.82	0.69
tblVehicleEF	OBUS	1.6200e-004	6.0400e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	8.2400e-003	0.02
tblVehicleEF	OBUS	2.1700e-004	2.7700e-004

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	OBUS	1.5500e-004	5.7740e-003
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.8580e-003	0.02
tblVehicleEF	OBUS	2.0000e-004	2.5500e-004
tblVehicleEF	OBUS	1.3410e-003	2.53
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.80
tblVehicleEF	OBUS	0.02	0.09
tblVehicleEF	OBUS	0.09	0.11
tblVehicleEF	OBUS	0.10	0.16
tblVehicleEF	OBUS	8.8100e-004	0.01
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	1.6800e-004	2.4100e-004
tblVehicleEF	OBUS	1.3410e-003	2.53
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.07	1.20
tblVehicleEF	OBUS	0.03	0.17
tblVehicleEF	OBUS	0.09	0.11
tblVehicleEF	OBUS	0.11	0.17
tblVehicleEF	SBUS	0.07	0.24
tblVehicleEF	SBUS	2.3430e-003	0.03
tblVehicleEF	SBUS	5.2140e-003	2.9830e-003
tblVehicleEF	SBUS	2.90	7.19
tblVehicleEF	SBUS	0.19	0.81
tblVehicleEF	SBUS	0.68	0.40
tblVehicleEF	SBUS	302.91	2,099.51
tblVehicleEF	SBUS	872.35	960.38
tblVehicleEF	SBUS	4.15	2.07
tblVehicleEF	SBUS	0.04	0.32

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	0.10	0.13
tblVehicleEF	SBUS	5.0520e-003	2.0080e-003
tblVehicleEF	SBUS	1.85	21.13
tblVehicleEF	SBUS	1.79	3.27
tblVehicleEF	SBUS	1.58	0.42
tblVehicleEF	SBUS	9.3500e-004	0.02
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	7.5000e-005	2.6000e-005
tblVehicleEF	SBUS	8.9400e-004	0.02
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.6630e-003	2.7230e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	6.9000e-005	2.4000e-005
tblVehicleEF	SBUS	5.9300e-004	0.10
tblVehicleEF	SBUS	5.4870e-003	5.9700e-003
tblVehicleEF	SBUS	0.30	0.53
tblVehicleEF	SBUS	0.03	0.07
tblVehicleEF	SBUS	0.01	0.14
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	2.8870e-003	0.02
tblVehicleEF	SBUS	8.3510e-003	9.0850e-003
tblVehicleEF	SBUS	4.1000e-005	2.0000e-005
tblVehicleEF	SBUS	5.9300e-004	0.10
tblVehicleEF	SBUS	5.4870e-003	5.9700e-003
tblVehicleEF	SBUS	0.43	0.86
tblVehicleEF	SBUS	0.04	0.11
tblVehicleEF	SBUS	0.01	0.14

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	0.07	0.24
tblVehicleEF	SBUS	2.3720e-003	0.03
tblVehicleEF	SBUS	4.5400e-003	2.9490e-003
tblVehicleEF	SBUS	2.87	7.18
tblVehicleEF	SBUS	0.19	0.81
tblVehicleEF	SBUS	0.53	0.39
tblVehicleEF	SBUS	303.80	2,104.57
tblVehicleEF	SBUS	872.35	959.76
tblVehicleEF	SBUS	3.90	2.05
tblVehicleEF	SBUS	0.04	0.32
tblVehicleEF	SBUS	0.10	0.13
tblVehicleEF	SBUS	4.8460e-003	2.0090e-003
tblVehicleEF	SBUS	1.83	21.12
tblVehicleEF	SBUS	1.73	3.23
tblVehicleEF	SBUS	1.58	0.42
tblVehicleEF	SBUS	8.0000e-004	0.02
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	7.5000e-005	2.6000e-005
tblVehicleEF	SBUS	7.6600e-004	0.02
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.6630e-003	2.7230e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	6.9000e-005	2.4000e-005
tblVehicleEF	SBUS	8.4200e-004	0.11
tblVehicleEF	SBUS	5.5860e-003	5.9570e-003
tblVehicleEF	SBUS	0.30	0.53

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	0.03	0.07
tblVehicleEF	SBUS	8.7490e-003	0.14
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.8960e-003	0.02
tblVehicleEF	SBUS	8.3510e-003	9.0790e-003
tblVehicleEF	SBUS	3.9000e-005	2.0000e-005
tblVehicleEF	SBUS	8.4200e-004	0.11
tblVehicleEF	SBUS	5.5860e-003	5.9570e-003
tblVehicleEF	SBUS	0.43	0.86
tblVehicleEF	SBUS	0.04	0.11
tblVehicleEF	SBUS	8.7490e-003	0.14
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	0.07	0.20
tblVehicleEF	SBUS	2.3290e-003	0.03
tblVehicleEF	SBUS	5.5480e-003	3.5710e-003
tblVehicleEF	SBUS	2.92	6.71
tblVehicleEF	SBUS	0.19	1.34
tblVehicleEF	SBUS	0.75	0.57
tblVehicleEF	SBUS	301.67	2,191.16
tblVehicleEF	SBUS	872.35	1,071.53
tblVehicleEF	SBUS	4.27	2.33
tblVehicleEF	SBUS	0.04	0.34
tblVehicleEF	SBUS	0.10	0.15
tblVehicleEF	SBUS	5.1840e-003	1.8230e-003
tblVehicleEF	SBUS	1.87	26.46
tblVehicleEF	SBUS	1.79	5.32
tblVehicleEF	SBUS	1.58	0.35
tblVehicleEF	SBUS	1.1200e-003	0.04
tblVehicleEF	SBUS	0.74	0.04

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.03
tblVehicleEF	SBUS	7.5000e-005	2.8000e-005
tblVehicleEF	SBUS	1.0720e-003	0.04
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.6630e-003	2.7500e-003
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	6.9000e-005	2.6000e-005
tblVehicleEF	SBUS	5.3200e-004	0.13
tblVehicleEF	SBUS	5.6720e-003	8.5790e-003
tblVehicleEF	SBUS	0.30	0.52
tblVehicleEF	SBUS	0.03	0.11
tblVehicleEF	SBUS	0.01	0.20
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	2.8760e-003	0.02
tblVehicleEF	SBUS	8.3510e-003	0.01
tblVehicleEF	SBUS	4.2000e-005	2.3000e-005
tblVehicleEF	SBUS	5.3200e-004	0.13
tblVehicleEF	SBUS	5.6720e-003	8.5790e-003
tblVehicleEF	SBUS	0.43	0.82
tblVehicleEF	SBUS	0.04	0.16
tblVehicleEF	SBUS	0.01	0.20
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	UBUS	4.89	2.27
tblVehicleEF	UBUS	0.02	5.3340e-003
tblVehicleEF	UBUS	38.17	29.02
tblVehicleEF	UBUS	1.23	0.76
tblVehicleEF	UBUS	1,847.16	1,072.80
tblVehicleEF	UBUS	12.31	5.22

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	UBUS	0.31	0.20
tblVehicleEF	UBUS	0.01	7.7200e-003
tblVehicleEF	UBUS	0.41	0.16
tblVehicleEF	UBUS	0.13	0.05
tblVehicleEF	UBUS	0.07	0.10
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1080e-003	3.0700e-004
tblVehicleEF	UBUS	1.7900e-004	2.6000e-005
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9520e-003	2.8900e-004
tblVehicleEF	UBUS	1.6400e-004	2.4000e-005
tblVehicleEF	UBUS	6.2300e-004	0.06
tblVehicleEF	UBUS	7.6320e-003	4.5170e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	1.3090e-003	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	3.2090e-003	9.5100e-004
tblVehicleEF	UBUS	1.2200e-004	5.2000e-005
tblVehicleEF	UBUS	6.2300e-004	0.06
tblVehicleEF	UBUS	7.6320e-003	4.5170e-003
tblVehicleEF	UBUS	5.00	2.32
tblVehicleEF	UBUS	1.3090e-003	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	4.89	2.29
tblVehicleEF	UBUS	0.01	5.2980e-003
tblVehicleEF	UBUS	38.17	29.21
tblVehicleEF	UBUS	1.06	0.75
tblVehicleEF	UBUS	1,847.17	1,072.31

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	UBUS	12.03	5.21
tblVehicleEF	UBUS	0.31	0.20
tblVehicleEF	UBUS	0.01	7.7000e-003
tblVehicleEF	UBUS	0.40	0.15
tblVehicleEF	UBUS	0.12	0.05
tblVehicleEF	UBUS	0.07	0.10
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1080e-003	3.0800e-004
tblVehicleEF	UBUS	1.7900e-004	2.6000e-005
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9520e-003	2.9000e-004
tblVehicleEF	UBUS	1.6400e-004	2.4000e-005
tblVehicleEF	UBUS	8.8200e-004	0.06
tblVehicleEF	UBUS	8.1320e-003	4.5490e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	1.1930e-003	0.01
tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	3.2090e-003	9.5100e-004
tblVehicleEF	UBUS	1.1900e-004	5.2000e-005
tblVehicleEF	UBUS	8.8200e-004	0.06
tblVehicleEF	UBUS	8.1320e-003	4.5490e-003
tblVehicleEF	UBUS	5.00	2.34
tblVehicleEF	UBUS	1.1930e-003	0.01
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	4.89	2.14
tblVehicleEF	UBUS	0.02	8.1080e-003
tblVehicleEF	UBUS	38.17	30.34
tblVehicleEF	UBUS	1.30	0.80

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleEF	UBUS	1,847.16	1,438.99
tblVehicleEF	UBUS	12.44	5.83
tblVehicleEF	UBUS	0.31	0.27
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.41	0.32
tblVehicleEF	UBUS	0.13	0.08
tblVehicleEF	UBUS	0.07	0.11
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.1080e-003	2.9200e-004
tblVehicleEF	UBUS	1.7900e-004	2.1000e-005
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	7.1460e-003	8.1670e-003
tblVehicleEF	UBUS	2.9520e-003	2.7500e-004
tblVehicleEF	UBUS	1.6400e-004	1.9000e-005
tblVehicleEF	UBUS	5.6100e-004	0.09
tblVehicleEF	UBUS	8.5450e-003	8.2650e-003
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	1.5910e-003	0.01
tblVehicleEF	UBUS	0.06	0.03
tblVehicleEF	UBUS	3.2090e-003	1.0580e-003
tblVehicleEF	UBUS	1.2300e-004	5.8000e-005
tblVehicleEF	UBUS	5.6100e-004	0.09
tblVehicleEF	UBUS	8.5450e-003	8.2650e-003
tblVehicleEF	UBUS	5.00	2.19
tblVehicleEF	UBUS	1.5910e-003	0.01
tblVehicleEF	UBUS	0.07	0.03

2.0 Emissions Summary

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	1.7964	14.0423	15.3140	0.0636	0.1171	0.5150	0.6321	0.0314	0.4883	0.5197	0.0000	6,135.1630	6,135.1630	1.3316	0.0224	6,175.1227
2025	1.7013	12.5439	15.1214	0.0637	0.1171	0.4521	0.5692	0.0314	0.4283	0.4597	0.0000	6,135.9189	6,135.9189	1.3297	0.0219	6,175.6805
2026	1.6999	12.5388	15.1105	0.0636	0.1171	0.4520	0.5691	0.0314	0.4282	0.4596	0.0000	6,131.6101	6,131.6101	1.3298	0.0214	6,171.2258
2027	1.6987	12.5339	15.1010	0.0636	0.1171	0.4520	0.5691	0.0314	0.4282	0.4596	0.0000	6,127.2800	6,127.2800	1.3298	0.0209	6,166.7444
2028	1.6974	12.5298	15.0933	0.0635	0.1171	0.4519	0.5691	0.0314	0.4282	0.4595	0.0000	6,123.1869	6,123.1869	1.3299	0.0204	6,162.5070
2029	1.6963	12.5249	15.0863	0.0635	0.1171	0.4519	0.5690	0.0314	0.4281	0.4595	0.0000	6,119.0877	6,119.0877	1.3300	0.0199	6,158.2590
2030	1.8683	5.9931	14.1033	0.0647	0.1171	0.1860	0.3031	0.0314	0.1859	0.2173	0.0000	6,848.7711	6,848.7711	0.1700	0.0194	6,858.8122
2031	1.8671	5.9907	14.0980	0.0647	0.1171	0.1860	0.3031	0.0314	0.1859	0.2172	0.0000	6,845.7131	6,845.7131	0.1700	0.0191	6,855.6441
2032	1.8661	5.9889	14.0934	0.0646	0.1171	0.1859	0.3031	0.0314	0.1858	0.2172	0.0000	6,843.0374	6,843.0374	0.1701	0.0187	6,852.8725
2033	1.8652	5.9871	14.0896	0.0646	0.1171	0.1859	0.3030	0.0314	0.1858	0.2172	0.0000	6,840.6589	6,840.6589	0.1701	0.0184	6,850.4087
2034	1.8644	5.9854	14.0860	0.0646	0.1171	0.1859	0.3030	0.0314	0.1858	0.2172	0.0000	6,838.5376	6,838.5376	0.1702	0.0182	6,848.2108
Maximum	**1.8683**	**14.0423**	**15.3140**	**0.0647**	**0.1171**	**0.5150**	**0.6321**	**0.0314**	**0.4883**	**0.5197**	**0.0000**	**6,848.7711**	**6,848.7711**	**1.3316**	**0.0224**	**6,858.8122**

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	0.9359	4.7801	27.0841	0.0636	0.1171	0.1725	0.2896	0.0314	0.1724	0.2038	0.0000	6,135.1630	6,135.1630	1.3316	0.0224	6,175.1227
2025	0.9212	4.6774	27.0699	0.0637	0.1171	0.1599	0.2771	0.0314	0.1598	0.1912	0.0000	6,135.9189	6,135.9189	1.3297	0.0219	6,175.6805
2026	0.9198	4.6723	27.0590	0.0636	0.1171	0.1599	0.2770	0.0314	0.1598	0.1911	0.0000	6,131.6101	6,131.6101	1.3298	0.0214	6,171.2258
2027	0.9185	4.6674	27.0496	0.0636	0.1171	0.1599	0.2770	0.0314	0.1597	0.1911	0.0000	6,127.2800	6,127.2800	1.3298	0.0209	6,166.7444
2028	0.9173	4.6633	27.0418	0.0635	0.1171	0.1598	0.2769	0.0314	0.1597	0.1911	0.0000	6,123.1869	6,123.1869	1.3299	0.0204	6,162.5070
2029	0.9161	4.6584	27.0349	0.0635	0.1171	0.1598	0.2769	0.0314	0.1596	0.1910	0.0000	6,119.0877	6,119.0877	1.3300	0.0199	6,158.2590
2030	0.8614	4.2695	27.0138	0.0647	0.1171	0.1181	0.2352	0.0314	0.1180	0.1494	0.0000	6,848.7711	6,848.7711	0.1700	0.0194	6,858.8122
2031	0.8603	4.2671	27.0085	0.0647	0.1171	0.1181	0.2352	0.0314	0.1180	0.1493	0.0000	6,845.7131	6,845.7131	0.1700	0.0191	6,855.6441
2032	0.8593	4.2653	27.0039	0.0646	0.1171	0.1181	0.2352	0.0314	0.1179	0.1493	0.0000	6,843.0374	6,843.0374	0.1701	0.0187	6,852.8725
2033	0.8583	4.2635	27.0001	0.0646	0.1171	0.1180	0.2352	0.0314	0.1179	0.1493	0.0000	6,840.6589	6,840.6589	0.1701	0.0184	6,850.4087
2034	0.8575	4.2618	26.9965	0.0646	0.1171	0.1180	0.2351	0.0314	0.1179	0.1493	0.0000	6,838.5376	6,838.5376	0.1702	0.0182	6,848.2108
Maximum	**0.9359**	**4.7801**	**27.0841**	**0.0647**	**0.1171**	**0.1725**	**0.2896**	**0.0314**	**0.1724**	**0.2038**	**0.0000**	**6,848.7711**	**6,848.7711**	**1.3316**	**0.0224**	**6,858.8122**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**49.92**	**53.64**	**-84.36**	**0.00**	**0.00**	**57.83**	**42.91**	**0.00**	**56.14**	**51.18**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0775	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.1000e-004	6.1000e-004	0.0000		6.5000e-004
Energy	9.5000e-004	8.6300e-003	7.2500e-003	5.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		10.3597	10.3597	2.0000e-004	1.9000e-004	10.4212
Mobile	0.1102	0.0625	0.4643	1.0800e-003	0.1010	7.8000e-004	0.1018	0.0252	7.3000e-004	0.0259		109.8959	109.8959	5.9500e-003	4.9400e-003	111.5163
Total	**0.1886**	**0.0712**	**0.4718**	**1.1300e-003**	**0.1010**	**1.4400e-003**	**0.1025**	**0.0252**	**1.3900e-003**	**0.0266**		**120.2562**	**120.2562**	**6.1500e-003**	**5.1300e-003**	**121.9381**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0775	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.1000e-004	6.1000e-004	0.0000		6.5000e-004
Energy	9.5000e-004	8.6300e-003	7.2500e-003	5.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		10.3597	10.3597	2.0000e-004	1.9000e-004	10.4212
Mobile	0.1102	0.0625	0.4643	1.0800e-003	0.1010	7.8000e-004	0.1018	0.0252	7.3000e-004	0.0259		109.8959	109.8959	5.9500e-003	4.9400e-003	111.5163
Total	**0.1886**	**0.0712**	**0.4718**	**1.1300e-003**	**0.1010**	**1.4400e-003**	**0.1025**	**0.0252**	**1.3900e-003**	**0.0266**		**120.2562**	**120.2562**	**6.1500e-003**	**5.1300e-003**	**121.9381**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/2/2024	1/31/2034	7	3683	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Bore/Drill Rigs	1	4.00	595	0.50
Building Construction	Bore/Drill Rigs	1	4.00	595	0.50
Building Construction	Cranes	1	8.00	282	0.29
Building Construction	Crushing/Proc. Equipment	1	8.00	10	0.78
Building Construction	Excavators	1	4.00	242	0.38
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Off-Highway Trucks	1	2.00	383	0.38
Building Construction	Other Construction Equipment	1	4.00	595	0.42
Building Construction	Pumps	1	8.00	225	0.74

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	10.00	0.00	7,366.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7662	13.7677	15.0163	0.0618		0.5123	0.5123		0.4858	0.4858		5,932.8199	5,932.8199	1.3229		5,965.8916
Total	**1.7662**	**13.7677**	**15.0163**	**0.0618**		**0.5123**	**0.5123**		**0.4858**	**0.4858**		**5,932.8199**	**5,932.8199**	**1.3229**		**5,965.8916**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.4800e-003	0.2594	0.0729	1.1700e-003	0.0350	2.2300e-003	0.0372	9.5900e-003	2.1400e-003	0.0117		129.9273	129.9273	6.8700e-003	0.0207	136.2608
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0257	0.0153	0.2249	7.0000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.9000e-004	0.0222		72.4158	72.4158	1.8100e-003	1.7100e-003	72.9704
Total	**0.0302**	**0.2746**	**0.2977**	**1.8700e-003**	**0.1171**	**2.6500e-003**	**0.1198**	**0.0314**	**2.5300e-003**	**0.0339**		**202.3430**	**202.3430**	**8.6800e-003**	**0.0224**	**209.2311**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9057	4.5055	26.7864	0.0618		0.1699	0.1699		0.1699	0.1699	0.0000	5,932.8199	5,932.8199	1.3229		5,965.8916
Total	**0.9057**	**4.5055**	**26.7864**	**0.0618**		**0.1699**	**0.1699**		**0.1699**	**0.1699**	**0.0000**	**5,932.8199**	**5,932.8199**	**1.3229**		**5,965.8916**

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.4800e-003	0.2594	0.0729	1.1700e-003	0.0350	2.2300e-003	0.0372	9.5900e-003	2.1400e-003	0.0117		129.9273	129.9273	6.8700e-003	0.0207	136.2608
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0257	0.0153	0.2249	7.0000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.9000e-004	0.0222		72.4158	72.4158	1.8100e-003	1.7100e-003	72.9704
Total	**0.0302**	**0.2746**	**0.2977**	**1.8700e-003**	**0.1171**	**2.6500e-003**	**0.1198**	**0.0314**	**2.5300e-003**	**0.0339**		**202.3430**	**202.3430**	**8.6800e-003**	**0.0224**	**209.2311**

3.2 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6727	12.2743	14.8365	0.0618		0.4494	0.4494		0.4258	0.4258		5,937.9863	5,937.9863	1.3209		5,971.0098
Total	**1.6727**	**12.2743**	**14.8365**	**0.0618**		**0.4494**	**0.4494**		**0.4258**	**0.4258**		**5,937.9863**	**5,937.9863**	**1.3209**		**5,971.0098**

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.4200e-003	0.2558	0.0739	1.1500e-003	0.0350	2.2300e-003	0.0372	9.5900e-003	2.1300e-003	0.0117		127.2921	127.2921	7.0900e-003	0.0203	133.5109
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0242	0.0138	0.2110	6.8000e-004	0.0822	4.0000e-004	0.0826	0.0218	3.7000e-004	0.0222		70.6404	70.6404	1.6500e-003	1.6000e-003	71.1598
Total	**0.0286**	**0.2697**	**0.2849**	**1.8300e-003**	**0.1171**	**2.6300e-003**	**0.1198**	**0.0314**	**2.5000e-003**	**0.0339**		**197.9326**	**197.9326**	**8.7400e-003**	**0.0219**	**204.6707**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8925	4.4078	26.7851	0.0618		0.1573	0.1573		0.1573	0.1573	0.0000	5,937.9863	5,937.9863	1.3209		5,971.0098
Total	**0.8925**	**4.4078**	**26.7851**	**0.0618**		**0.1573**	**0.1573**		**0.1573**	**0.1573**	**0.0000**	**5,937.9863**	**5,937.9863**	**1.3209**		**5,971.0098**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.4200e-003	0.2558	0.0739	1.1500e-003	0.0350	2.2300e-003	0.0372	9.5900e-003	2.1300e-003	0.0117		127.2921	127.2921	7.0900e-003	0.0203	133.5109
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0242	0.0138	0.2110	6.8000e-004	0.0822	4.0000e-004	0.0826	0.0218	3.7000e-004	0.0222		70.6404	70.6404	1.6500e-003	1.6000e-003	71.1598
Total	**0.0286**	**0.2697**	**0.2849**	**1.8300e-003**	**0.1171**	**2.6300e-003**	**0.1198**	**0.0314**	**2.5000e-003**	**0.0339**		**197.9326**	**197.9326**	**8.7400e-003**	**0.0219**	**204.6707**

3.2 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6727	12.2743	14.8365	0.0618		0.4494	0.4494		0.4258	0.4258		5,937.9863	5,937.9863	1.3209		5,971.0098
Total	**1.6727**	**12.2743**	**14.8365**	**0.0618**		**0.4494**	**0.4494**		**0.4258**	**0.4258**		**5,937.9863**	**5,937.9863**	**1.3209**		**5,971.0098**

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.3700e-003	0.2519	0.0749	1.1200e-003	0.0350	2.2000e-003	0.0372	9.5900e-003	2.1100e-003	0.0117		124.6348	124.6348	7.3000e-003	0.0199	130.7372
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0229	0.0126	0.1991	6.6000e-004	0.0822	3.8000e-004	0.0825	0.0218	3.5000e-004	0.0221		68.9891	68.9891	1.5100e-003	1.5200e-003	69.4788
Total	**0.0272**	**0.2645**	**0.2740**	**1.7800e-003**	**0.1171**	**2.5800e-003**	**0.1197**	**0.0314**	**2.4600e-003**	**0.0338**		**193.6239**	**193.6239**	**8.8100e-003**	**0.0214**	**200.2160**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8925	4.4078	26.7851	0.0618		0.1573	0.1573		0.1573	0.1573	0.0000	5,937.9863	5,937.9863	1.3209		5,971.0098
Total	**0.8925**	**4.4078**	**26.7851**	**0.0618**		**0.1573**	**0.1573**		**0.1573**	**0.1573**	**0.0000**	**5,937.9863**	**5,937.9863**	**1.3209**		**5,971.0098**

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.3700e-003	0.2519	0.0749	1.1200e-003	0.0350	2.2000e-003	0.0372	9.5900e-003	2.1100e-003	0.0117		124.6348	124.6348	7.3000e-003	0.0199	130.7372
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0229	0.0126	0.1991	6.6000e-004	0.0822	3.8000e-004	0.0825	0.0218	3.5000e-004	0.0221		68.9891	68.9891	1.5100e-003	1.5200e-003	69.4788
Total	**0.0272**	**0.2645**	**0.2740**	**1.7800e-003**	**0.1171**	**2.5800e-003**	**0.1197**	**0.0314**	**2.4600e-003**	**0.0338**		**193.6239**	**193.6239**	**8.8100e-003**	**0.0214**	**200.2160**

3.2 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6727	12.2743	14.8365	0.0618		0.4494	0.4494		0.4258	0.4258		5,937.9863	5,937.9863	1.3209		5,971.0098
Total	**1.6727**	**12.2743**	**14.8365**	**0.0618**		**0.4494**	**0.4494**		**0.4258**	**0.4258**		**5,937.9863**	**5,937.9863**	**1.3209**		**5,971.0098**

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.3200e-003	0.2481	0.0757	1.0900e-003	0.0350	2.1800e-003	0.0372	9.5900e-003	2.0900e-003	0.0117		121.7979	121.7979	7.4900e-003	0.0194	127.7744
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0216	0.0116	0.1888	6.4000e-004	0.0822	3.6000e-004	0.0825	0.0218	3.3000e-004	0.0221		67.4958	67.4958	1.3900e-003	1.4400e-003	67.9602
Total	**0.0260**	**0.2597**	**0.2645**	**1.7300e-003**	**0.1171**	**2.5400e-003**	**0.1197**	**0.0314**	**2.4200e-003**	**0.0338**		**189.2937**	**189.2937**	**8.8800e-003**	**0.0209**	**195.7346**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8925	4.4078	26.7851	0.0618		0.1573	0.1573		0.1573	0.1573	0.0000	5,937.9863	5,937.9863	1.3209		5,971.0098
Total	**0.8925**	**4.4078**	**26.7851**	**0.0618**		**0.1573**	**0.1573**		**0.1573**	**0.1573**	**0.0000**	**5,937.9863**	**5,937.9863**	**1.3209**		**5,971.0098**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.3200e-003	0.2481	0.0757	1.0900e-003	0.0350	2.1800e-003	0.0372	9.5900e-003	2.0900e-003	0.0117		121.7979	121.7979	7.4900e-003	0.0194	127.7744
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0216	0.0116	0.1888	6.4000e-004	0.0822	3.6000e-004	0.0825	0.0218	3.3000e-004	0.0221		67.4958	67.4958	1.3900e-003	1.4400e-003	67.9602
Total	**0.0260**	**0.2597**	**0.2645**	**1.7300e-003**	**0.1171**	**2.5400e-003**	**0.1197**	**0.0314**	**2.4200e-003**	**0.0338**		**189.2937**	**189.2937**	**8.8800e-003**	**0.0209**	**195.7346**

3.2 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6727	12.2743	14.8365	0.0618		0.4494	0.4494		0.4258	0.4258		5,937.9863	5,937.9863	1.3209		5,971.0098
Total	**1.6727**	**12.2743**	**14.8365**	**0.0618**		**0.4494**	**0.4494**		**0.4258**	**0.4258**		**5,937.9863**	**5,937.9863**	**1.3209**		**5,971.0098**

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.2800e-003	0.2448	0.0766	1.0600e-003	0.0350	2.1600e-003	0.0372	9.5900e-003	2.0700e-003	0.0117		119.0267	119.0267	7.6800e-003	0.0190	124.8804
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0205	0.0107	0.1802	6.2000e-004	0.0822	3.4000e-004	0.0825	0.0218	3.1000e-004	0.0221		66.1739	66.1739	1.2800e-003	1.3800e-003	66.6168
Total	**0.0247**	**0.2555**	**0.2568**	**1.6800e-003**	**0.1171**	**2.5000e-003**	**0.1196**	**0.0314**	**2.3800e-003**	**0.0338**		**185.2006**	**185.2006**	**8.9600e-003**	**0.0204**	**191.4972**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8925	4.4078	26.7851	0.0618		0.1573	0.1573		0.1573	0.1573	0.0000	5,937.9863	5,937.9863	1.3209		5,971.0098
Total	**0.8925**	**4.4078**	**26.7851**	**0.0618**		**0.1573**	**0.1573**		**0.1573**	**0.1573**	**0.0000**	**5,937.9863**	**5,937.9863**	**1.3209**		**5,971.0098**

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.2800e-003	0.2448	0.0766	1.0600e-003	0.0350	2.1600e-003	0.0372	9.5900e-003	2.0700e-003	0.0117		119.0267	119.0267	7.6800e-003	0.0190	124.8804
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0205	0.0107	0.1802	6.2000e-004	0.0822	3.4000e-004	0.0825	0.0218	3.1000e-004	0.0221		66.1739	66.1739	1.2800e-003	1.3800e-003	66.6168
Total	**0.0247**	**0.2555**	**0.2568**	**1.6800e-003**	**0.1171**	**2.5000e-003**	**0.1196**	**0.0314**	**2.3800e-003**	**0.0338**		**185.2006**	**185.2006**	**8.9600e-003**	**0.0204**	**191.4972**

3.2 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6727	12.2743	14.8365	0.0618		0.4494	0.4494		0.4258	0.4258		5,937.9863	5,937.9863	1.3209		5,971.0098
Total	**1.6727**	**12.2743**	**14.8365**	**0.0618**		**0.4494**	**0.4494**		**0.4258**	**0.4258**		**5,937.9863**	**5,937.9863**	**1.3209**		**5,971.0098**

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.2400e-003	0.2407	0.0773	1.0300e-003	0.0350	2.1400e-003	0.0371	9.5900e-003	2.0400e-003	0.0116		116.1078	116.1078	7.8700e-003	0.0186	121.8312
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0193	9.9600e-003	0.1726	6.1000e-004	0.0822	3.2000e-004	0.0825	0.0218	2.9000e-004	0.0221		64.9937	64.9937	1.1800e-003	1.3200e-003	65.4180
Total	**0.0236**	**0.2506**	**0.2498**	**1.6400e-003**	**0.1171**	**2.4600e-003**	**0.1196**	**0.0314**	**2.3300e-003**	**0.0337**		**181.1014**	**181.1014**	**9.0500e-003**	**0.0199**	**187.2492**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8925	4.4078	26.7851	0.0618		0.1573	0.1573		0.1573	0.1573	0.0000	5,937.9863	5,937.9863	1.3209		5,971.0098
Total	**0.8925**	**4.4078**	**26.7851**	**0.0618**		**0.1573**	**0.1573**		**0.1573**	**0.1573**	**0.0000**	**5,937.9863**	**5,937.9863**	**1.3209**		**5,971.0098**

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.2400e-003	0.2407	0.0773	1.0300e-003	0.0350	2.1400e-003	0.0371	9.5900e-003	2.0400e-003	0.0116		116.1078	116.1078	7.8700e-003	0.0186	121.8312
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0193	9.9600e-003	0.1726	6.1000e-004	0.0822	3.2000e-004	0.0825	0.0218	2.9000e-004	0.0221		64.9937	64.9937	1.1800e-003	1.3200e-003	65.4180
Total	**0.0236**	**0.2506**	**0.2498**	**1.6400e-003**	**0.1171**	**2.4600e-003**	**0.1196**	**0.0314**	**2.3300e-003**	**0.0337**		**181.1014**	**181.1014**	**9.0500e-003**	**0.0199**	**187.2492**

3.2 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8459	5.7457	13.8594	0.0631		0.1836	0.1836		0.1836	0.1836		6,671.2108	6,671.2108	0.1608		6,675.2319
Total	**1.8459**	**5.7457**	**13.8594**	**0.0631**		**0.1836**	**0.1836**		**0.1836**	**0.1836**		**6,671.2108**	**6,671.2108**	**0.1608**		**6,675.2319**

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.2100e-003	0.2380	0.0780	1.0100e-003	0.0350	2.1200e-003	0.0371	9.5900e-003	2.0300e-003	0.0116		113.6024	113.6024	8.0400e-003	0.0182	119.2143
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0182	9.2800e-003	0.1659	5.9000e-004	0.0822	3.0000e-004	0.0824	0.0218	2.7000e-004	0.0221		63.9579	63.9579	1.1000e-003	1.2800e-003	64.3660
Total	**0.0224**	**0.2473**	**0.2439**	**1.6000e-003**	**0.1171**	**2.4200e-003**	**0.1195**	**0.0314**	**2.3000e-003**	**0.0337**		**177.5603**	**177.5603**	**9.1400e-003**	**0.0194**	**183.5803**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8390	4.0221	26.7699	0.0631		0.1157	0.1157		0.1157	0.1157	0.0000	6,671.2108	6,671.2108	0.1608		6,675.2319
Total	**0.8390**	**4.0221**	**26.7699**	**0.0631**		**0.1157**	**0.1157**		**0.1157**	**0.1157**	**0.0000**	**6,671.2108**	**6,671.2108**	**0.1608**		**6,675.2319**

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.2100e-003	0.2380	0.0780	1.0100e-003	0.0350	2.1200e-003	0.0371	9.5900e-003	2.0300e-003	0.0116		113.6024	113.6024	8.0400e-003	0.0182	119.2143
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0182	9.2800e-003	0.1659	5.9000e-004	0.0822	3.0000e-004	0.0824	0.0218	2.7000e-004	0.0221		63.9579	63.9579	1.1000e-003	1.2800e-003	64.3660
Total	**0.0224**	**0.2473**	**0.2439**	**1.6000e-003**	**0.1171**	**2.4200e-003**	**0.1195**	**0.0314**	**2.3000e-003**	**0.0337**		**177.5603**	**177.5603**	**9.1400e-003**	**0.0194**	**183.5803**

3.2 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8459	5.7457	13.8594	0.0631		0.1836	0.1836		0.1836	0.1836		6,671.2108	6,671.2108	0.1608		6,675.2319
Total	**1.8459**	**5.7457**	**13.8594**	**0.0631**		**0.1836**	**0.1836**		**0.1836**	**0.1836**		**6,671.2108**	**6,671.2108**	**0.1608**		**6,675.2319**

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.1900e-003	0.2363	0.0787	9.9000e-004	0.0350	2.1000e-003	0.0371	9.5900e-003	2.0100e-003	0.0116		111.4629	111.4629	8.1700e-003	0.0178	116.9790
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0171	8.6800e-003	0.1599	5.8000e-004	0.0822	2.8000e-004	0.0824	0.0218	2.5000e-004	0.0220		63.0394	63.0394	1.0200e-003	1.2400e-003	63.4332
Total	**0.0213**	**0.2450**	**0.2386**	**1.5700e-003**	**0.1171**	**2.3800e-003**	**0.1195**	**0.0314**	**2.2600e-003**	**0.0336**		**174.5023**	**174.5023**	**9.1900e-003**	**0.0191**	**180.4122**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8390	4.0221	26.7699	0.0631		0.1157	0.1157		0.1157	0.1157	0.0000	6,671.2108	6,671.2108	0.1608		6,675.2319
Total	**0.8390**	**4.0221**	**26.7699**	**0.0631**		**0.1157**	**0.1157**		**0.1157**	**0.1157**	**0.0000**	**6,671.2108**	**6,671.2108**	**0.1608**		**6,675.2319**

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.1900e-003	0.2363	0.0787	9.9000e-004	0.0350	2.1000e-003	0.0371	9.5900e-003	2.0100e-003	0.0116		111.4629	111.4629	8.1700e-003	0.0178	116.9790
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0171	8.6800e-003	0.1599	5.8000e-004	0.0822	2.8000e-004	0.0824	0.0218	2.5000e-004	0.0220		63.0394	63.0394	1.0200e-003	1.2400e-003	63.4332
Total	**0.0213**	**0.2450**	**0.2386**	**1.5700e-003**	**0.1171**	**2.3800e-003**	**0.1195**	**0.0314**	**2.2600e-003**	**0.0336**		**174.5023**	**174.5023**	**9.1900e-003**	**0.0191**	**180.4122**

3.2 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8459	5.7457	13.8594	0.0631		0.1836	0.1836		0.1836	0.1836		6,671.2108	6,671.2108	0.1608		6,675.2319
Total	**1.8459**	**5.7457**	**13.8594**	**0.0631**		**0.1836**	**0.1836**		**0.1836**	**0.1836**		**6,671.2108**	**6,671.2108**	**0.1608**		**6,675.2319**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.1700e-003	0.2349	0.0794	9.7000e-004	0.0350	2.0900e-003	0.0371	9.5900e-003	2.0000e-003	0.0116		109.5890	109.5890	8.2900e-003	0.0175	115.0211
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0160	8.1700e-003	0.1547	5.7000e-004	0.0822	2.6000e-004	0.0824	0.0218	2.4000e-004	0.0220		62.2376	62.2376	9.5000e-004	1.2000e-003	62.6195
Total	**0.0202**	**0.2431**	**0.2341**	**1.5400e-003**	**0.1171**	**2.3500e-003**	**0.1195**	**0.0314**	**2.2400e-003**	**0.0336**		**171.8266**	**171.8266**	**9.2400e-003**	**0.0187**	**177.6406**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8390	4.0221	26.7699	0.0631		0.1157	0.1157		0.1157	0.1157	0.0000	6,671.2108	6,671.2108	0.1608		6,675.2319
Total	**0.8390**	**4.0221**	**26.7699**	**0.0631**		**0.1157**	**0.1157**		**0.1157**	**0.1157**	**0.0000**	**6,671.2108**	**6,671.2108**	**0.1608**		**6,675.2319**

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.1700e-003	0.2349	0.0794	9.7000e-004	0.0350	2.0900e-003	0.0371	9.5900e-003	2.0000e-003	0.0116		109.5890	109.5890	8.2900e-003	0.0175	115.0211
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0160	8.1700e-003	0.1547	5.7000e-004	0.0822	2.6000e-004	0.0824	0.0218	2.4000e-004	0.0220		62.2376	62.2376	9.5000e-004	1.2000e-003	62.6195
Total	**0.0202**	**0.2431**	**0.2341**	**1.5400e-003**	**0.1171**	**2.3500e-003**	**0.1195**	**0.0314**	**2.2400e-003**	**0.0336**		**171.8266**	**171.8266**	**9.2400e-003**	**0.0187**	**177.6406**

3.2 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8459	5.7457	13.8594	0.0631		0.1836	0.1836		0.1836	0.1836		6,671.2108	6,671.2108	0.1608		6,675.2319
Total	**1.8459**	**5.7457**	**13.8594**	**0.0631**		**0.1836**	**0.1836**		**0.1836**	**0.1836**		**6,671.2108**	**6,671.2108**	**0.1608**		**6,675.2319**

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.1600e-003	0.2336	0.0800	9.5000e-004	0.0350	2.0800e-003	0.0371	9.5900e-003	1.9900e-003	0.0116		107.9094	107.9094	8.4000e-003	0.0173	113.2662
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0151	7.7400e-003	0.1502	5.6000e-004	0.0822	2.4000e-004	0.0824	0.0218	2.2000e-004	0.0220		61.5387	61.5387	8.9000e-004	1.1700e-003	61.9106
Total	**0.0193**	**0.2414**	**0.2302**	**1.5100e-003**	**0.1171**	**2.3200e-003**	**0.1195**	**0.0314**	**2.2100e-003**	**0.0336**		**169.4481**	**169.4481**	**9.2900e-003**	**0.0184**	**175.1768**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8390	4.0221	26.7699	0.0631		0.1157	0.1157		0.1157	0.1157	0.0000	6,671.2108	6,671.2108	0.1608		6,675.2319
Total	**0.8390**	**4.0221**	**26.7699**	**0.0631**		**0.1157**	**0.1157**		**0.1157**	**0.1157**	**0.0000**	**6,671.2108**	**6,671.2108**	**0.1608**		**6,675.2319**

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.1600e-003	0.2336	0.0800	9.5000e-004	0.0350	2.0800e-003	0.0371	9.5900e-003	1.9900e-003	0.0116		107.9094	107.9094	8.4000e-003	0.0173	113.2662
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0151	7.7400e-003	0.1502	5.6000e-004	0.0822	2.4000e-004	0.0824	0.0218	2.2000e-004	0.0220		61.5387	61.5387	8.9000e-004	1.1700e-003	61.9106
Total	**0.0193**	**0.2414**	**0.2302**	**1.5100e-003**	**0.1171**	**2.3200e-003**	**0.1195**	**0.0314**	**2.2100e-003**	**0.0336**		**169.4481**	**169.4481**	**9.2900e-003**	**0.0184**	**175.1768**

3.2 Building Construction - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8459	5.7457	13.8594	0.0631		0.1836	0.1836		0.1836	0.1836		6,671.2108	6,671.2108	0.1608		6,675.2319
Total	**1.8459**	**5.7457**	**13.8594**	**0.0631**		**0.1836**	**0.1836**		**0.1836**	**0.1836**		**6,671.2108**	**6,671.2108**	**0.1608**		**6,675.2319**

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2034

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.1500e-003	0.2323	0.0805	9.4000e-004	0.0350	2.0700e-003	0.0371	9.5900e-003	1.9800e-003	0.0116		106.3961	106.3961	8.4900e-003	0.0170	111.6848
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0143	7.3900e-003	0.1461	5.5000e-004	0.0822	2.3000e-004	0.0824	0.0218	2.1000e-004	0.0220		60.9307	60.9307	8.4000e-004	1.1500e-003	61.2941
Total	**0.0185**	**0.2397**	**0.2267**	**1.4900e-003**	**0.1171**	**2.3000e-003**	**0.1194**	**0.0314**	**2.1900e-003**	**0.0336**		**167.3268**	**167.3268**	**9.3300e-003**	**0.0182**	**172.9790**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8390	4.0221	26.7699	0.0631		0.1157	0.1157		0.1157	0.1157	0.0000	6,671.2108	6,671.2108	0.1608		6,675.2319
Total	**0.8390**	**4.0221**	**26.7699**	**0.0631**		**0.1157**	**0.1157**		**0.1157**	**0.1157**	**0.0000**	**6,671.2108**	**6,671.2108**	**0.1608**		**6,675.2319**

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2034

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.1500e-003	0.2323	0.0805	9.4000e-004	0.0350	2.0700e-003	0.0371	9.5900e-003	1.9800e-003	0.0116		106.3961	106.3961	8.4900e-003	0.0170	111.6848
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0143	7.3900e-003	0.1461	5.5000e-004	0.0822	2.3000e-004	0.0824	0.0218	2.1000e-004	0.0220		60.9307	60.9307	8.4000e-004	1.1500e-003	61.2941
Total	**0.0185**	**0.2397**	**0.2267**	**1.4900e-003**	**0.1171**	**2.3000e-003**	**0.1194**	**0.0314**	**2.1900e-003**	**0.0336**		**167.3268**	**167.3268**	**9.3300e-003**	**0.0182**	**172.9790**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1102	0.0625	0.4643	1.0800e-003	0.1010	7.8000e-004	0.1018	0.0252	7.3000e-004	0.0259		109.8959	109.8959	5.9500e-003	4.9400e-003	111.5163
Unmitigated	0.1102	0.0625	0.4643	1.0800e-003	0.1010	7.8000e-004	0.1018	0.0252	7.3000e-004	0.0259		109.8959	109.8959	5.9500e-003	4.9400e-003	111.5163

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	10.96	17.91	14.20	36,259	36,259
Total	10.96	17.91	14.20	36,259	36,259

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.581445	0.061322	0.168269	0.110400	0.022610	0.006703	0.010268	0.006246	0.000647	0.000667	0.027159	0.000784	0.003479

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	9.5000e-004	8.6300e-003	7.2500e-003	5.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		10.3597	10.3597	2.0000e-004	1.9000e-004	10.4212
NaturalGas Unmitigated	9.5000e-004	8.6300e-003	7.2500e-003	5.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		10.3597	10.3597	2.0000e-004	1.9000e-004	10.4212

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	88.057	9.5000e-004	8.6300e-003	7.2500e-003	5.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		10.3597	10.3597	2.0000e-004	1.9000e-004	10.4212
Total		**9.5000e-004**	**8.6300e-003**	**7.2500e-003**	**5.0000e-005**		**6.6000e-004**	**6.6000e-004**		**6.6000e-004**	**6.6000e-004**		**10.3597**	**10.3597**	**2.0000e-004**	**1.9000e-004**	**10.4212**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	0.088057	9.5000e-004	8.6300e-003	7.2500e-003	5.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004		10.3597	10.3597	2.0000e-004	1.9000e-004	10.4212
Total		**9.5000e-004**	**8.6300e-003**	**7.2500e-003**	**5.0000e-005**		**6.6000e-004**	**6.6000e-004**		**6.6000e-004**	**6.6000e-004**		**10.3597**	**10.3597**	**2.0000e-004**	**1.9000e-004**	**10.4212**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0775	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.1000e-004	6.1000e-004	0.0000		6.5000e-004
Unmitigated	0.0775	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.1000e-004	6.1000e-004	0.0000		6.5000e-004

NASSCO - Phase 5 - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0597					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-005	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.1000e-004	6.1000e-004	0.0000		6.5000e-004
Total	**0.0775**	**0.0000**	**2.8000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**6.1000e-004**	**6.1000e-004**	**0.0000**		**6.5000e-004**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0597					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-005	0.0000	2.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.1000e-004	6.1000e-004	0.0000		6.5000e-004
Total	**0.0775**	**0.0000**	**2.8000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**6.1000e-004**	**6.1000e-004**	**0.0000**		**6.5000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

AERMOD/HRA Outputs

HARP2 - HRACalc (dated 21081) 1/7/2022 4:15:04 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 12

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 10
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS

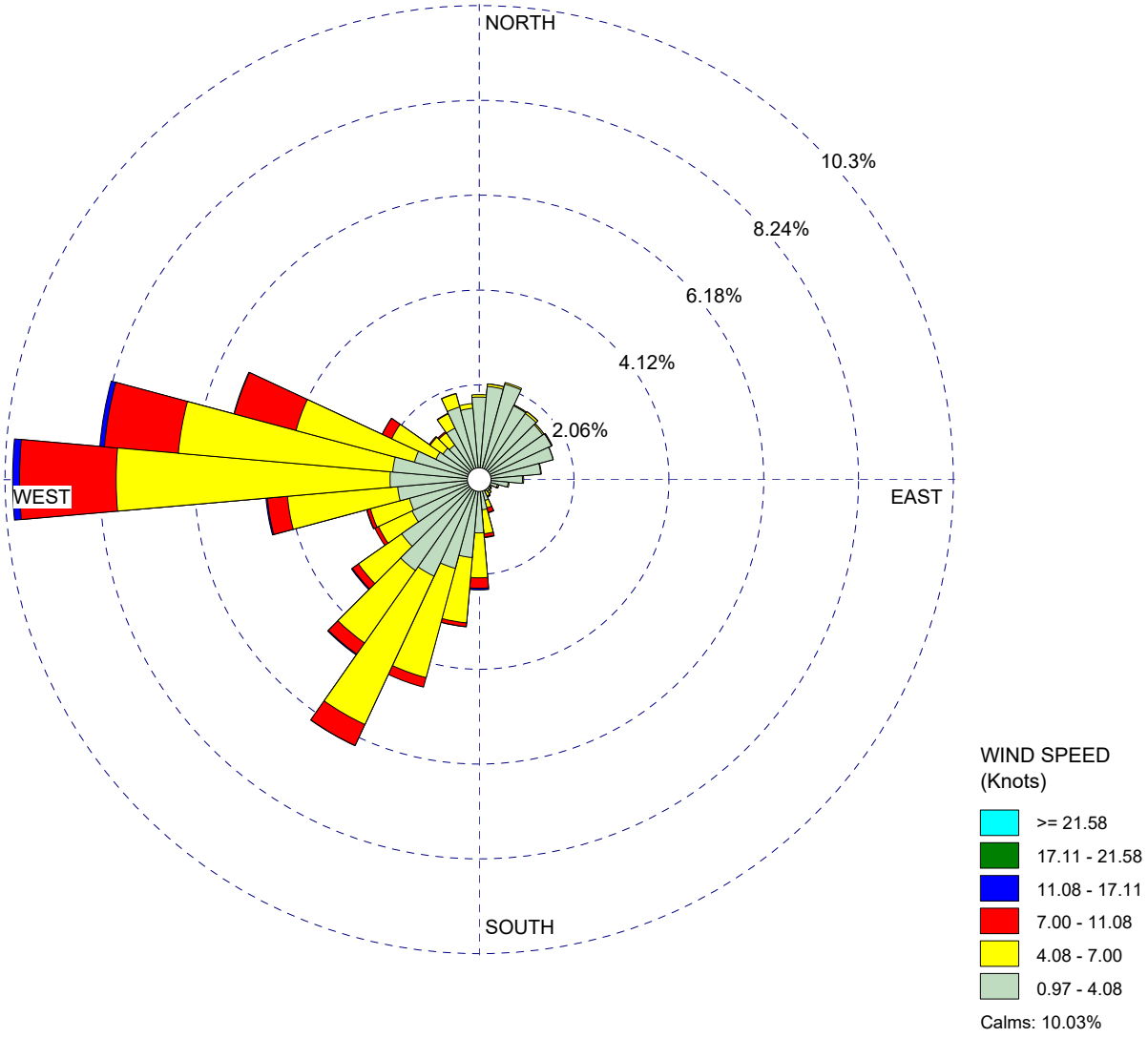
Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\Users\Brenda.Hom\OneDrive - Ascent Environmental\Brenda.Hom\My Documents\NASSCO - San Diego Port\NASSCO_PM25_HARP\hra\ResidentialPM2.5CancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\Brenda.Hom\OneDrive - Ascent Environmental\Brenda.Hom\My Documents\NASSCO - San Diego Port\NASSCO_PM25_HARP\hra\ResidentialPM2.5CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\Users\Brenda.Hom\OneDrive - Ascent Environmental\Brenda.Hom\My Documents\NASSCO - San Diego Port\NASSCO_PM25_HARP\hra\ResidentialPM2.5NCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\Brenda.Hom\OneDrive - Ascent Environmental\Brenda.Hom\My Documents\NASSCO - San Diego Port\NASSCO_PM25_HARP\hra\ResidentialPM2.5NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: C:\Users\Brenda.Hom\OneDrive - Ascent Environmental\Brenda.Hom\My Documents\NASSCO - San Diego Port\NASSCO_PM25_HARP\hra\ResidentialPM2.5NCAcuteRisk.csv
Acute risk total by receptor saved to: C:\Users\Brenda.Hom\OneDrive - Ascent Environmental\Brenda.Hom\My Documents\NASSCO - San Diego Port\NASSCO_PM25_HARP\hra\ResidentialPM2.5NCAcuteRiskSumByRec.csv
HRA ran successfully

WIND ROSE PLOT:

Station #23188 - SAN DIEGO/PERKINS ELEMENTARY SCHOOL, CA

DISPLAY:

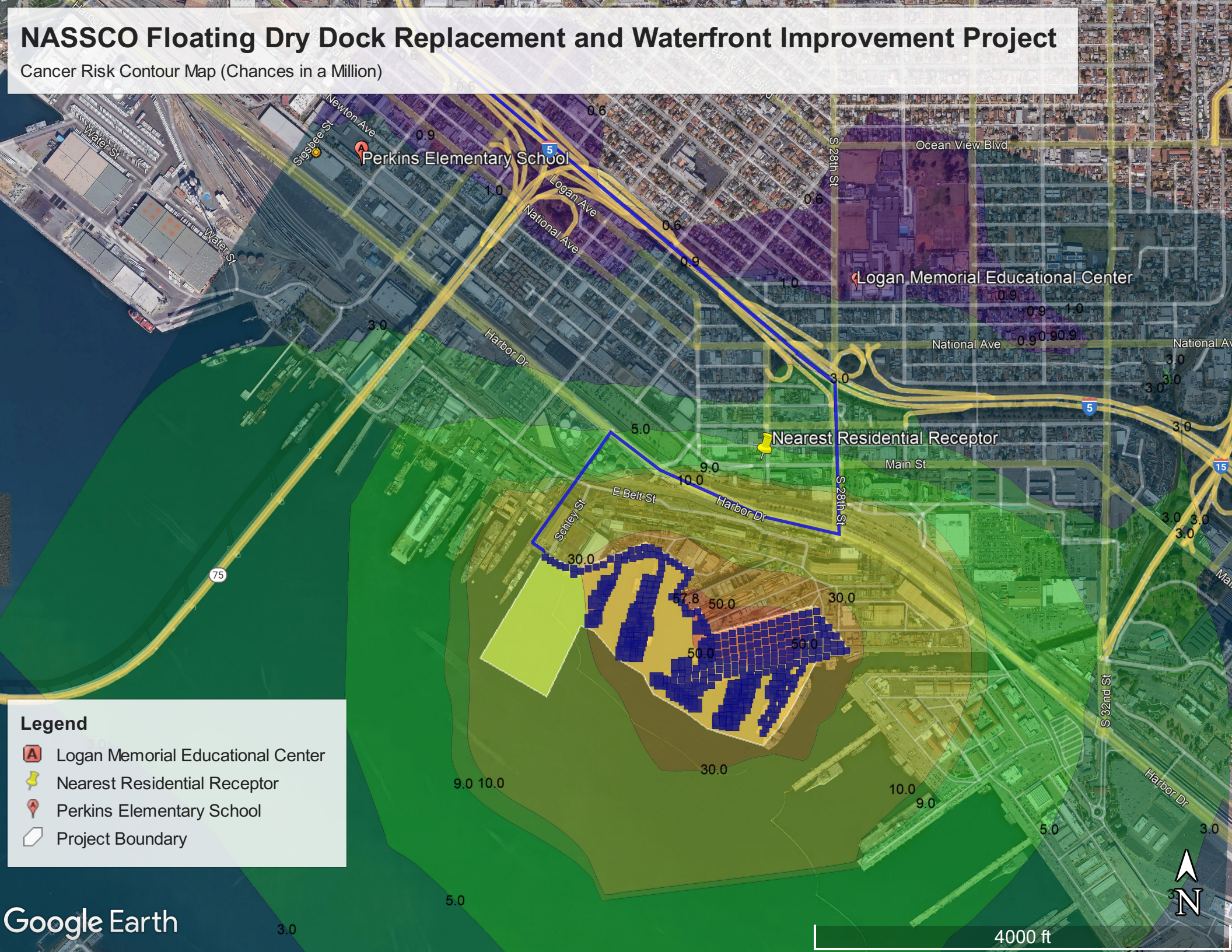
Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **Start Date: 1/1/2010 - 00:00** **End Date: 12/31/2012 - 23:59**	COMPANY NAME:	
		MODELER:	
	CALM WINDS: **10.03%**	TOTAL COUNT: **26302 hrs.**	
	AVG. WIND SPEED: **3.71 Knots**	DATE: **1/7/2022**	PROJECT NO.:

NASSCO Floating Dry Dock Replacement and Waterfront Improvement Project

Cancer Risk Contour Map (Chances in a Million)



*HARP - HRACalc v21081 1/7/2022 4:15:04 PM - Cancer Risk - Input File: C:\Users\Brenda.Hom\OneDrive - Ascent Environmental\Brenda.Hom\My Documents\NASSCO - San Diego Port\NASSCO_PM25_HARP\hra\ResidentialPM2.5HRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_F	EGG_RISK
1	ALL		487520.6	3616550	2.38E-05	12YrCancer	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		487570.6	3616550	2.06E-05	12YrCancer	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		487620.6	3616550	1.75E-05	12YrCancer	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		487670.6	3616550	1.51E-05	12YrCancer	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		487720.6	3616550	1.32E-05	12YrCancer	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		487770.6	3616550	1.17E-05	12YrCancer	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		487820.6	3616550	1.04E-05	12YrCancer	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		487870.6	3616550	9.34E-06	12YrCancer	9.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		487920.6	3616550	8.44E-06	12YrCancer	8.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		487970.6	3616550	7.67E-06	12YrCancer	7.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		488020.6	3616550	7.01E-06	12YrCancer	7.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		488070.6	3616550	6.44E-06	12YrCancer	6.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		488120.6	3616550	5.78E-06	12YrCancer	5.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		488170.6	3616550	5.18E-06	12YrCancer	5.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		488220.6	3616550	4.79E-06	12YrCancer	4.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		488270.6	3616550	4.66E-06	12YrCancer	4.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		488320.6	3616550	4.18E-06	12YrCancer	4.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		488370.6	3616550	3.93E-06	12YrCancer	3.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		488420.6	3616550	3.69E-06	12YrCancer	3.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		488470.6	3616550	3.48E-06	12YrCancer	3.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		488520.6	3616550	3.29E-06	12YrCancer	3.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		488570.6	3616550	3.12E-06	12YrCancer	3.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		488620.6	3616550	2.96E-06	12YrCancer	2.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		487520.6	3616600	2.66E-05	12YrCancer	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL		487570.6	3616600	2.24E-05	12YrCancer	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL		487620.6	3616600	1.88E-05	12YrCancer	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		487670.6	3616600	1.60E-05	12YrCancer	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		487720.6	3616600	1.39E-05	12YrCancer	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		487770.6	3616600	1.21E-05	12YrCancer	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		487820.6	3616600	1.08E-05	12YrCancer	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		487870.6	3616600	9.60E-06	12YrCancer	9.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		487920.6	3616600	8.64E-06	12YrCancer	8.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		487970.6	3616600	7.81E-06	12YrCancer	7.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL		488020.6	3616600	7.10E-06	12YrCancer	7.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL		488070.6	3616600	6.50E-06	12YrCancer	6.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL		488120.6	3616600	5.99E-06	12YrCancer	5.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL		488170.6	3616600	5.34E-06	12YrCancer	5.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL		488220.6	3616600	4.79E-06	12YrCancer	4.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL		488270.6	3616600	4.67E-06	12YrCancer	4.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL		488320.6	3616600	4.18E-06	12YrCancer	4.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL		488370.6	3616600	3.92E-06	12YrCancer	3.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL		488420.6	3616600	3.69E-06	12YrCancer	3.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL		488470.6	3616600	3.47E-06	12YrCancer	3.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL		488520.6	3616600	3.28E-06	12YrCancer	3.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL		488570.6	3616600	3.11E-06	12YrCancer	3.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL		488620.6	3616600	2.95E-06	12YrCancer	2.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL		487970.6	3616650	7.89E-06	12YrCancer	7.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL		488020.6	3616650	7.12E-06	12YrCancer	7.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL		488070.6	3616650	6.52E-06	12YrCancer	6.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL		488120.6	3616650	6.00E-06	12YrCancer	6.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL		488170.6	3616650	5.39E-06	12YrCancer	5.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL		488220.6	3616650	4.95E-06	12YrCancer	4.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL		488270.6	3616650	4.79E-06	12YrCancer	4.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL		488320.6	3616650	4.30E-06	12YrCancer	4.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL		488370.6	3616650	3.90E-06	12YrCancer	3.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL		488420.6	3616650	3.62E-06	12YrCancer	3.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL		488470.6	3616650	3.45E-06	12YrCancer	3.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL		488520.6	3616650	3.26E-06	12YrCancer	3.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL		488570.6	3616650	3.09E-06	12YrCancer	3.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL		488620.6	3616650	2.93E-06	12YrCancer	2.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL		487520.6	3616700	3.36E-05	12YrCancer	3.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL		487570.6	3616700	2.46E-05	12YrCancer	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL		487620.6	3616700	1.98E-05	12YrCancer	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL		487670.6	3616700	1.66E-05	12YrCancer	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	ALL		487720.6	3616700	1.42E-05	12YrCancer	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL		487770.6	3616700	1.23E-05	12YrCancer	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL		487820.6	3616700	1.08E-05	12YrCancer	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL		487870.6	3616700	9.65E-06	12YrCancer	9.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL		487920.6	3616700	8.66E-06	12YrCancer	8.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL		487970.6	3616700	7.88E-06	12YrCancer	7.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	ALL		488020.6	3616700	7.10E-06	12YrCancer	7.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL		488070.6	3616700	6.50E-06	12YrCancer	6.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL		488120.6	3616700	5.98E-06	12YrCancer	5.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		488170.6	3616700	5.52E-06	12YrCancer	5.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL		488220.6	3616700	5.12E-06	12YrCancer	5.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL		488270.6	3616700	4.77E-06	12YrCancer	4.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL		488320.6	3616700	4.27E-06	12YrCancer	4.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL		488370.6	3616700	3.87E-06	12YrCancer	3.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL		488420.6	3616700	3.63E-06	12YrCancer	3.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL		488470.6	3616700	3.42E-06	12YrCancer	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81	ALL		488520.6	3616700	3.21E-06	12YrCancer	3.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL		488570.6	3616700	3.04E-06	12YrCancer	3.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL		488620.6	3616700	2.91E-06	12YrCancer	2.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL		487470.6	3616750	4.66E-05	12YrCancer	4.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL		487520.6	3616750	3.28E-05	12YrCancer	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86	ALL		487570.6	3616750	2.47E-05	12YrCancer	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	ALL		487620.6	3616750	1.97E-05	12YrCancer	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL		487670.6	3616750	1.64E-05	12YrCancer	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
89	ALL		487720.6	3616750	1.40E-05	12YrCancer	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL		487770.6	3616750	1.21E-05	12YrCancer	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
91	ALL		487820.6	3616750	1.07E-05	12YrCancer	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL		487870.6	3616750	9.51E-06	12YrCancer	9.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL		487920.6	3616750	8.54E-06	12YrCancer	8.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	ALL		487970.6	3616750	7.73E-06	12YrCancer	7.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL		488020.6	3616750	7.03E-06	12YrCancer	7.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL		488070.6	3616750	6.44E-06	12YrCancer	6.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL		488120.6	3616750	5.93E-06	12YrCancer	5.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL		488170.6	3616750	5.48E-06	12YrCancer	5.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL		488220.6	3616750	5.08E-06	12YrCancer	5.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		488270.6	3616750	4.74E-06	12YrCancer	4.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL		488320.6	3616750	4.23E-06	12YrCancer	4.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL		488370.6	3616750	3.83E-06	12YrCancer	3.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL		488420.6	3616750	3.59E-06	12YrCancer	3.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

104	ALL	488470.6	3616750	3.39E-06	12YrCancer	3.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	488520.6	3616750	3.17E-06	12YrCancer	3.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	488570.6	3616750	3.01E-06	12YrCancer	3.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	488620.6	3616750	2.88E-06	12YrCancer	2.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	487120.6	3616800	5.57E-05	12YrCancer	5.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	487170.6	3616800	5.52E-05	12YrCancer	5.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	487220.6	3616800	5.62E-05	12YrCancer	5.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	487270.6	3616800	5.73E-05	12YrCancer	5.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	487420.6	3616800	4.80E-05	12YrCancer	4.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	487470.6	3616800	3.90E-05	12YrCancer	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	487520.6	3616800	2.90E-05	12YrCancer	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	487570.6	3616800	2.26E-05	12YrCancer	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	487620.6	3616800	1.88E-05	12YrCancer	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	487670.6	3616800	1.58E-05	12YrCancer	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	487720.6	3616800	1.35E-05	12YrCancer	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	487770.6	3616800	1.18E-05	12YrCancer	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	487820.6	3616800	1.04E-05	12YrCancer	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	487870.6	3616800	9.30E-06	12YrCancer	9.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	487920.6	3616800	8.37E-06	12YrCancer	8.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	487970.6	3616800	7.58E-06	12YrCancer	7.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	488020.6	3616800	6.69E-06	12YrCancer	6.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	488070.6	3616800	6.05E-06	12YrCancer	6.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	488120.6	3616800	5.66E-06	12YrCancer	5.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	488170.6	3616800	5.23E-06	12YrCancer	5.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	488220.6	3616800	4.86E-06	12YrCancer	4.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	488270.6	3616800	4.68E-06	12YrCancer	4.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	488320.6	3616800	4.02E-06	12YrCancer	4.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	488370.6	3616800	3.67E-06	12YrCancer	3.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	488420.6	3616800	3.46E-06	12YrCancer	3.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	488470.6	3616800	3.26E-06	12YrCancer	3.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	488520.6	3616800	3.09E-06	12YrCancer	3.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	488570.6	3616800	2.97E-06	12YrCancer	2.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	488620.6	3616800	2.78E-06	12YrCancer	2.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	486470.6	3616850	1.28E-05	12YrCancer	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	486520.6	3616850	1.49E-05	12YrCancer	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	487020.6	3616850	5.78E-05	12YrCancer	5.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	487070.6	3616850	5.21E-05	12YrCancer	5.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL	487120.6	3616850	4.73E-05	12YrCancer	4.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	487170.6	3616850	4.49E-05	12YrCancer	4.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	487220.6	3616850	4.40E-05	12YrCancer	4.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	487270.6	3616850	4.35E-05	12YrCancer	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	487320.6	3616850	4.31E-05	12YrCancer	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	487370.6	3616850	4.16E-05	12YrCancer	4.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	487420.6	3616850	3.73E-05	12YrCancer	3.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	487470.6	3616850	3.09E-05	12YrCancer	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	487520.6	3616850	2.51E-05	12YrCancer	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	487570.6	3616850	2.06E-05	12YrCancer	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	487620.6	3616850	1.74E-05	12YrCancer	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	487670.6	3616850	1.50E-05	12YrCancer	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	487720.6	3616850	1.30E-05	12YrCancer	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	487770.6	3616850	1.14E-05	12YrCancer	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	487820.6	3616850	1.01E-05	12YrCancer	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	487870.6	3616850	9.06E-06	12YrCancer	9.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	487920.6	3616850	7.88E-06	12YrCancer	7.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	487970.6	3616850	7.09E-06	12YrCancer	7.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	488020.6	3616850	6.47E-06	12YrCancer	6.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	488070.6	3616850	5.94E-06	12YrCancer	5.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	488120.6	3616850	5.48E-06	12YrCancer	5.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	488170.6	3616850	5.04E-06	12YrCancer	5.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	488220.6	3616850	4.49E-06	12YrCancer	4.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	488270.6	3616850	4.47E-06	12YrCancer	4.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	488320.6	3616850	3.78E-06	12YrCancer	3.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	488370.6	3616850	3.52E-06	12YrCancer	3.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	488420.6	3616850	3.31E-06	12YrCancer	3.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	488470.6	3616850	3.13E-06	12YrCancer	3.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	488520.6	3616850	2.99E-06	12YrCancer	2.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	488570.6	3616850	2.82E-06	12YrCancer	2.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	488620.6	3616850	2.81E-06	12YrCancer	2.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL	486370.6	3616900	9.78E-06	12YrCancer	9.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	486420.6	3616900	1.11E-05	12YrCancer	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	486470.6	3616900	1.27E-05	12YrCancer	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL	486520.6	3616900	1.48E-05	12YrCancer	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	487070.6	3616900	4.55E-05	12YrCancer	4.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	487120.6	3616900	4.01E-05	12YrCancer	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	487170.6	3616900	3.54E-05	12YrCancer	3.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
179	ALL	487220.6	3616900	3.42E-05	12YrCancer	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	487270.6	3616900	3.36E-05	12YrCancer	3.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL	487320.6	3616900	3.37E-05	12YrCancer	3.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL	487370.6	3616900	3.14E-05	12YrCancer	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	487420.6	3616900	2.88E-05	12YrCancer	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	487470.6	3616900	2.54E-05	12YrCancer	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	487520.6	3616900	2.18E-05	12YrCancer	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	487570.6	3616900	1.87E-05	12YrCancer	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	487620.6	3616900	1.62E-05	12YrCancer	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	ALL	487670.6	3616900	1.42E-05	12YrCancer	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	487720.6	3616900	1.24E-05	12YrCancer	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	487770.6	3616900	1.10E-05	12YrCancer	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	487820.6	3616900	9.61E-06	12YrCancer	9.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	487870.6	3616900	8.51E-06	12YrCancer	8.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	487920.6	3616900	7.63E-06	12YrCancer	7.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	487970.6	3616900	6.94E-06	12YrCancer	6.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	488020.6	3616900	6.34E-06	12YrCancer	6.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	488070.6	3616900	5.83E-06	12YrCancer	5.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	488120.6	3616900	5.31E-06	12YrCancer	5.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	488170.6	3616900	4.77E-06	12YrCancer	4.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	488220.6	3616900	4.20E-06	12YrCancer	4.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	488270.6	3616900	4.20E-06	12YrCancer	4.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	488320.6	3616900	4.12E-06	12YrCancer	4.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	488370.6	3616900	3.46E-06	12YrCancer	3.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	488420.6	3616900	3.27E-06	12YrCancer	3.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	488470.6	3616900	3.09E-06	12YrCancer	3.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	488520.6	3616900	2.99E-06	12YrCancer	2.99E-06	0.00E+00	0.00E+00	0.00

209	ALL	486220.6	3616950	7.03E-06	12YrCancer	7.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL	486370.6	3616950	9.57E-06	12YrCancer	9.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL	486420.6	3616950	1.08E-05	12YrCancer	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL	486470.6	3616950	1.24E-05	12YrCancer	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL	486520.6	3616950	1.45E-05	12YrCancer	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	ALL	486570.6	3616950	1.79E-05	12YrCancer	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL	486720.6	3616950	3.27E-05	12YrCancer	3.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL	487020.6	3616950	4.45E-05	12YrCancer	4.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL	487070.6	3616950	3.73E-05	12YrCancer	3.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL	487120.6	3616950	3.25E-05	12YrCancer	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL	487170.6	3616950	2.99E-05	12YrCancer	2.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL	487220.6	3616950	2.84E-05	12YrCancer	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL	487270.6	3616950	2.75E-05	12YrCancer	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL	487320.6	3616950	2.66E-05	12YrCancer	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL	487370.6	3616950	2.52E-05	12YrCancer	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	ALL	487420.6	3616950	2.33E-05	12YrCancer	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL	487470.6	3616950	2.12E-05	12YrCancer	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	ALL	487520.6	3616950	1.91E-05	12YrCancer	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL	487570.6	3616950	1.69E-05	12YrCancer	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL	487620.6	3616950	1.52E-05	12YrCancer	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL	487670.6	3616950	1.34E-05	12YrCancer	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL	487720.6	3616950	1.17E-05	12YrCancer	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL	487770.6	3616950	1.03E-05	12YrCancer	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL	487820.6	3616950	9.17E-06	12YrCancer	9.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL	487870.6	3616950	8.09E-06	12YrCancer	8.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL	487920.6	3616950	7.31E-06	12YrCancer	7.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
235	ALL	487970.6	3616950	6.60E-06	12YrCancer	6.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	488020.6	3616950	5.95E-06	12YrCancer	5.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	488070.6	3616950	5.48E-06	12YrCancer	5.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	488120.6	3616950	5.06E-06	12YrCancer	5.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	488170.6	3616950	4.70E-06	12YrCancer	4.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	488220.6	3616950	3.92E-06	12YrCancer	3.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	488270.6	3616950	3.91E-06	12YrCancer	3.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	488320.6	3616950	4.05E-06	12YrCancer	4.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	488370.6	3616950	3.55E-06	12YrCancer	3.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL	488420.6	3616950	3.22E-06	12YrCancer	3.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	488470.6	3616950	3.05E-06	12YrCancer	3.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	488520.6	3616950	3.04E-06	12YrCancer	3.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	488570.6	3616950	2.98E-06	12YrCancer	2.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	488620.6	3616950	2.85E-06	12YrCancer	2.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	486170.6	3617000	6.30E-06	12YrCancer	6.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	486220.6	3617000	6.87E-06	12YrCancer	6.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	486270.6	3617000	7.54E-06	12YrCancer	7.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	486320.6	3617000	8.32E-06	12YrCancer	8.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL	486370.6	3617000	9.26E-06	12YrCancer	9.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL	486420.6	3617000	1.04E-05	12YrCancer	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL	486470.6	3617000	1.18E-05	12YrCancer	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL	486520.6	3617000	1.37E-05	12YrCancer	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL	486570.6	3617000	1.67E-05	12YrCancer	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL	486620.6	3617000	1.94E-05	12YrCancer	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL	486670.6	3617000	2.20E-05	12YrCancer	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL	486720.6	3617000	2.46E-05	12YrCancer	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL	486770.6	3617000	2.86E-05	12YrCancer	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL	486820.6	3617000	3.47E-05	12YrCancer	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL	486970.6	3617000	4.35E-05	12YrCancer	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL	487020.6	3617000	3.50E-05	12YrCancer	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL	487070.6	3617000	3.04E-05	12YrCancer	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL	487120.6	3617000	2.71E-05	12YrCancer	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL	487170.6	3617000	2.53E-05	12YrCancer	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL	487220.6	3617000	2.37E-05	12YrCancer	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
269	ALL	487270.6	3617000	2.22E-05	12YrCancer	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL	487320.6	3617000	2.14E-05	12YrCancer	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	ALL	487370.6	3617000	2.05E-05	12YrCancer	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL	487420.6	3617000	1.93E-05	12YrCancer	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273	ALL	487470.6	3617000	1.79E-05	12YrCancer	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL	487520.6	3617000	1.69E-05	12YrCancer	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL	487570.6	3617000	1.57E-05	12YrCancer	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL	487620.6	3617000	1.40E-05	12YrCancer	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL	487670.6	3617000	1.22E-05	12YrCancer	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL	487720.6	3617000	1.09E-05	12YrCancer	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	487770.6	3617000	9.58E-06	12YrCancer	9.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	487820.6	3617000	8.53E-06	12YrCancer	8.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	487870.6	3617000	7.71E-06	12YrCancer	7.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282	ALL	487920.6	3617000	7.00E-06	12YrCancer	7.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	487970.6	3617000	6.39E-06	12YrCancer	6.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	488020.6	3617000	5.85E-06	12YrCancer	5.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	488070.6	3617000	5.39E-06	12YrCancer	5.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	488120.6	3617000	4.98E-06	12YrCancer	4.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	488170.6	3617000	4.62E-06	12YrCancer	4.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	488220.6	3617000	4.03E-06	12YrCancer	4.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	488270.6	3617000	3.47E-06	12YrCancer	3.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	488320.6	3617000	3.59E-06	12YrCancer	3.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	488370.6	3617000	3.69E-06	12YrCancer	3.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	488420.6	3617000	3.22E-06	12YrCancer	3.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	488470.6	3617000	3.14E-06	12YrCancer	3.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	488520.6	3617000	3.09E-06	12YrCancer	3.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	488570.6	3617000	2.96E-06	12YrCancer	2.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	488620.6	3617000	2.81E-06	12YrCancer	2.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	486170.6	3617050	6.14E-06	12YrCancer	6.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	486220.6	3617050	6.68E-06	12YrCancer	6.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	486270.6	3617050	7.31E-06	12YrCancer	7.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL	486320.6	3617050	8.03E-06	12YrCancer	8.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL	486370.6	3617050	8.89E-06	12YrCancer	8.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL	486420.6	3617050	9.99E-06	12YrCancer	9.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL	486470.6	3617050	1.12E-05	12YrCancer	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL	486520.6	3617050	1.27E-05	12YrCancer	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL	486570.6	3617050	1.47E-05	12YrCancer	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL	486620.6	3617050	1.56E-05	12YrCancer	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	ALL	486670.6	3617050	1.74E-05	12YrCancer	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL	486720.6	3617050	1.96E-05	12YrCancer	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL	486770.6	3617050	2.21E-05	12YrCancer	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL	486820.6	3617050	2.52E-05	12YrCancer	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL	486870.6	3617050	2.82E-05	12YrCancer	2.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
312	ALL	486920.6	3617050	3.00E-05	12YrCancer	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
313	ALL	486970.6	3617050	2.93E-05	12YrCancer	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

314	ALL	487020.6	3617050	2.72E-05	12YrCancer	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
315	ALL	487070.6	3617050	2.40E-05	12YrCancer	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
316	ALL	487120.6	3617050	2.21E-05	12YrCancer	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	ALL	487170.6	3617050	2.09E-05	12YrCancer	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
318	ALL	487220.6	3617050	2.00E-05	12YrCancer	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	ALL	487270.6	3617050	1.92E-05	12YrCancer	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	ALL	487320.6	3617050	1.85E-05	12YrCancer	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
321	ALL	487370.6	3617050	1.73E-05	12YrCancer	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL	487420.6	3617050	1.59E-05	12YrCancer	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL	487470.6	3617050	1.49E-05	12YrCancer	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL	487520.6	3617050	1.44E-05	12YrCancer	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL	487570.6	3617050	1.35E-05	12YrCancer	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL	487620.6	3617050	1.23E-05	12YrCancer	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL	487670.6	3617050	1.11E-05	12YrCancer	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL	487720.6	3617050	9.63E-06	12YrCancer	9.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
329	ALL	487770.6	3617050	8.74E-06	12YrCancer	8.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	487820.6	3617050	7.93E-06	12YrCancer	7.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	487870.6	3617050	7.22E-06	12YrCancer	7.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	487920.6	3617050	6.58E-06	12YrCancer	6.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	487970.6	3617050	6.02E-06	12YrCancer	6.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	488020.6	3617050	5.52E-06	12YrCancer	5.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	488070.6	3617050	5.05E-06	12YrCancer	5.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	488120.6	3617050	4.89E-06	12YrCancer	4.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	488170.6	3617050	4.53E-06	12YrCancer	4.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	488220.6	3617050	3.50E-06	12YrCancer	3.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	488270.6	3617050	3.00E-06	12YrCancer	3.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	488320.6	3617050	3.31E-06	12YrCancer	3.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	488370.6	3617050	3.61E-06	12YrCancer	3.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	488420.6	3617050	3.43E-06	12YrCancer	3.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	488470.6	3617050	2.97E-06	12YrCancer	2.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	488520.6	3617050	3.02E-06	12YrCancer	3.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	488570.6	3617050	2.92E-06	12YrCancer	2.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	488620.6	3617050	2.77E-06	12YrCancer	2.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL	486220.6	3617100	6.47E-06	12YrCancer	6.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL	486270.6	3617100	7.05E-06	12YrCancer	7.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL	486320.6	3617100	7.71E-06	12YrCancer	7.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL	486370.6	3617100	8.48E-06	12YrCancer	8.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
351	ALL	486420.6	3617100	9.38E-06	12YrCancer	9.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL	486470.6	3617100	1.05E-05	12YrCancer	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL	486520.6	3617100	1.18E-05	12YrCancer	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL	486570.6	3617100	1.32E-05	12YrCancer	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	ALL	486620.6	3617100	1.30E-05	12YrCancer	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL	486670.6	3617100	1.41E-05	12YrCancer	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL	486720.6	3617100	1.51E-05	12YrCancer	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL	486770.6	3617100	1.68E-05	12YrCancer	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
359	ALL	486820.6	3617100	1.85E-05	12YrCancer	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL	486870.6	3617100	2.01E-05	12YrCancer	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
361	ALL	486920.6	3617100	2.03E-05	12YrCancer	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
362	ALL	486970.6	3617100	2.04E-05	12YrCancer	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
363	ALL	487020.6	3617100	1.98E-05	12YrCancer	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
364	ALL	487070.6	3617100	1.90E-05	12YrCancer	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	ALL	487120.6	3617100	1.82E-05	12YrCancer	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
366	ALL	487170.6	3617100	1.67E-05	12YrCancer	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	ALL	487220.6	3617100	1.61E-05	12YrCancer	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL	487270.6	3617100	1.55E-05	12YrCancer	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL	487320.6	3617100	1.50E-05	12YrCancer	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL	487370.6	3617100	1.45E-05	12YrCancer	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL	487420.6	3617100	1.38E-05	12YrCancer	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL	487470.6	3617100	1.31E-05	12YrCancer	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL	487520.6	3617100	1.21E-05	12YrCancer	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL	487570.6	3617100	1.09E-05	12YrCancer	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL	487620.6	3617100	1.02E-05	12YrCancer	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
376	ALL	487670.6	3617100	9.38E-06	12YrCancer	9.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	487720.6	3617100	8.48E-06	12YrCancer	8.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	487770.6	3617100	7.81E-06	12YrCancer	7.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	487820.6	3617100	7.16E-06	12YrCancer	7.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	487870.6	3617100	6.55E-06	12YrCancer	6.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	487920.6	3617100	5.76E-06	12YrCancer	5.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	487970.6	3617100	5.05E-06	12YrCancer	5.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	488020.6	3617100	4.28E-06	12YrCancer	4.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	488070.6	3617100	3.36E-06	12YrCancer	3.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	488120.6	3617100	3.08E-06	12YrCancer	3.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	488170.6	3617100	3.17E-06	12YrCancer	3.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	488220.6	3617100	2.50E-06	12YrCancer	2.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	488270.6	3617100	2.38E-06	12YrCancer	2.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	488320.6	3617100	2.94E-06	12YrCancer	2.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	488370.6	3617100	3.26E-06	12YrCancer	3.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	488420.6	3617100	3.35E-06	12YrCancer	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	488470.6	3617100	3.08E-06	12YrCancer	3.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	488520.6	3617100	2.98E-06	12YrCancer	2.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394	ALL	488570.6	3617100	2.47E-06	12YrCancer	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
395	ALL	488620.6	3617100	2.09E-06	12YrCancer	2.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL	486270.6	3617150	6.76E-06	12YrCancer	6.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL	486320.6	3617150	7.36E-06	12YrCancer	7.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL	486370.6	3617150	8.10E-06	12YrCancer	8.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL	486420.6	3617150	8.82E-06	12YrCancer	8.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	ALL	486470.6	3617150	9.71E-06	12YrCancer	9.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401	ALL	486520.6	3617150	1.07E-05	12YrCancer	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL	486570.6	3617150	1.03E-05	12YrCancer	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
403	ALL	486620.6	3617150	1.06E-05	12YrCancer	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
404	ALL	486670.6	3617150	1.15E-05	12YrCancer	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL	486720.6	3617150	1.17E-05	12YrCancer	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
406	ALL	486770.6	3617150	1.24E-05	12YrCancer	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL	486820.6	3617150	1.35E-05	12YrCancer	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL	486870.6	3617150	1.45E-05	12YrCancer	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
409	ALL	486920.6	3617150	1.48E-05	12YrCancer	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
410	ALL	486970.6	3617150	1.52E-05	12YrCancer	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
411	ALL	487020.6	3617150	1.55E-05	12YrCancer	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
412	ALL	487070.6	3617150	1.53E-05	12YrCancer	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
413	ALL	487120.6	3617150	1.48E-05	12YrCancer	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
414	ALL	487170.6	3617150	1.30E-05	12YrCancer	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
415	ALL	487220.6	3617150	1.33E-05	12YrCancer	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
416	ALL	487270.6	3617150	1.29E-05	12YrCancer	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
417	ALL	487320.6	3617150	1.16E-05	12YrCancer	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
418	ALL	487370.6	3617150	1.12E-05	12YrCancer	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

419	ALL	487420.6	3617150	1.09E-05	12YrCancel	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	ALL	487470.6	3617150	1.05E-05	12YrCancel	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
421	ALL	487520.6	3617150	8.94E-06	12YrCancel	8.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
422	ALL	487570.6	3617150	8.41E-06	12YrCancel	8.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
423	ALL	487620.6	3617150	7.27E-06	12YrCancel	7.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	487670.6	3617150	6.87E-06	12YrCancel	6.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	487720.6	3617150	6.46E-06	12YrCancel	6.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	487770.6	3617150	5.56E-06	12YrCancel	5.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	487820.6	3617150	5.19E-06	12YrCancel	5.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	487870.6	3617150	4.47E-06	12YrCancel	4.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	487920.6	3617150	3.88E-06	12YrCancel	3.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	487970.6	3617150	3.41E-06	12YrCancel	3.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	488020.6	3617150	3.00E-06	12YrCancel	3.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	488070.6	3617150	2.62E-06	12YrCancel	2.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	488120.6	3617150	2.48E-06	12YrCancel	2.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	488170.6	3617150	2.27E-06	12YrCancel	2.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	488220.6	3617150	2.06E-06	12YrCancel	2.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	488270.6	3617150	2.13E-06	12YrCancel	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	488320.6	3617150	2.60E-06	12YrCancel	2.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	488370.6	3617150	2.58E-06	12YrCancel	2.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	488420.6	3617150	3.02E-06	12YrCancel	3.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	488470.6	3617150	3.16E-06	12YrCancel	3.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	488520.6	3617150	2.82E-06	12YrCancel	2.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL	488570.6	3617150	2.13E-06	12YrCancel	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL	488620.6	3617150	1.77E-06	12YrCancel	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL	485970.6	3617200	4.26E-06	12YrCancel	4.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL	486020.6	3617200	4.54E-06	12YrCancel	4.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL	486220.6	3617200	6.00E-06	12YrCancel	6.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL	486270.6	3617200	6.47E-06	12YrCancel	6.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL	486320.6	3617200	7.00E-06	12YrCancel	7.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
449	ALL	486370.6	3617200	7.64E-06	12YrCancel	7.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL	486420.6	3617200	8.31E-06	12YrCancel	8.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL	486470.6	3617200	9.07E-06	12YrCancel	9.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL	486520.6	3617200	8.69E-06	12YrCancel	8.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL	486570.6	3617200	8.68E-06	12YrCancel	8.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL	486620.6	3617200	9.16E-06	12YrCancel	9.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL	486670.6	3617200	9.08E-06	12YrCancel	9.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL	486720.6	3617200	9.86E-06	12YrCancel	9.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL	486770.6	3617200	9.23E-06	12YrCancel	9.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL	486820.6	3617200	9.94E-06	12YrCancel	9.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL	486870.6	3617200	1.06E-05	12YrCancel	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL	486920.6	3617200	1.09E-05	12YrCancel	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL	486970.6	3617200	1.01E-05	12YrCancel	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL	487020.6	3617200	1.13E-05	12YrCancel	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL	487070.6	3617200	1.12E-05	12YrCancel	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL	487120.6	3617200	1.04E-05	12YrCancel	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL	487170.6	3617200	1.03E-05	12YrCancel	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL	487220.6	3617200	8.95E-06	12YrCancel	8.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL	487270.6	3617200	8.78E-06	12YrCancel	8.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL	487320.6	3617200	7.83E-06	12YrCancel	7.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL	487370.6	3617200	7.69E-06	12YrCancel	7.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
470	ALL	487420.6	3617200	7.55E-06	12YrCancel	7.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	487470.6	3617200	7.50E-06	12YrCancel	7.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	487520.6	3617200	6.61E-06	12YrCancel	6.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	487570.6	3617200	5.39E-06	12YrCancel	5.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	487620.6	3617200	5.14E-06	12YrCancel	5.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	487670.6	3617200	4.94E-06	12YrCancel	4.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	487720.6	3617200	4.75E-06	12YrCancel	4.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	487770.6	3617200	4.21E-06	12YrCancel	4.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	487820.6	3617200	3.89E-06	12YrCancel	3.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	487870.6	3617200	3.69E-06	12YrCancel	3.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	487920.6	3617200	3.24E-06	12YrCancel	3.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	487970.6	3617200	2.96E-06	12YrCancel	2.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	488020.6	3617200	2.55E-06	12YrCancel	2.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	488070.6	3617200	2.37E-06	12YrCancel	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	488120.6	3617200	2.24E-06	12YrCancel	2.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	488170.6	3617200	1.97E-06	12YrCancel	1.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	488220.6	3617200	1.78E-06	12YrCancel	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	488270.6	3617200	1.91E-06	12YrCancel	1.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	488320.6	3617200	2.45E-06	12YrCancel	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
489	ALL	488370.6	3617200	2.26E-06	12YrCancel	2.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
490	ALL	488420.6	3617200	2.60E-06	12YrCancel	2.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
491	ALL	488470.6	3617200	3.12E-06	12YrCancel	3.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
492	ALL	488520.6	3617200	2.84E-06	12YrCancel	2.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
493	ALL	488570.6	3617200	2.15E-06	12YrCancel	2.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
494	ALL	488620.6	3617200	1.58E-06	12YrCancel	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
495	ALL	485920.6	3617250	3.91E-06	12YrCancel	3.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
496	ALL	485970.6	3617250	4.15E-06	12YrCancel	4.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
497	ALL	486020.6	3617250	4.41E-06	12YrCancel	4.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
498	ALL	486070.6	3617250	4.70E-06	12YrCancel	4.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
499	ALL	486170.6	3617250	5.36E-06	12YrCancel	5.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500	ALL	486220.6	3617250	5.75E-06	12YrCancel	5.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
501	ALL	486270.6	3617250	6.17E-06	12YrCancel	6.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
502	ALL	486320.6	3617250	6.66E-06	12YrCancel	6.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
503	ALL	486370.6	3617250	6.45E-06	12YrCancel	6.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
504	ALL	486420.6	3617250	7.77E-06	12YrCancel	7.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
505	ALL	486470.6	3617250	7.49E-06	12YrCancel	7.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	ALL	486520.6	3617250	7.29E-06	12YrCancel	7.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507	ALL	486570.6	3617250	7.61E-06	12YrCancel	7.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508	ALL	486620.6	3617250	7.52E-06	12YrCancel	7.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509	ALL	486670.6	3617250	7.35E-06	12YrCancel	7.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510	ALL	486720.6	3617250	7.37E-06	12YrCancel	7.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511	ALL	486770.6	3617250	7.37E-06	12YrCancel	7.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512	ALL	486820.6	3617250	7.84E-06	12YrCancel	7.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513	ALL	486870.6	3617250	7.81E-06	12YrCancel	7.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	ALL	486920.6	3617250	7.71E-06	12YrCancel	7.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515	ALL	486970.6	3617250	8.03E-06	12YrCancel	8.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	ALL	487020.6	3617250	8.26E-06	12YrCancel	8.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
517	ALL	487070.6	3617250	8.19E-06	12YrCancel	8.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	487120.6	3617250	7.44E-06	12YrCancel	7.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	487170.6	3617250	6.81E-06	12YrCancel	6.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	487220.6	3617250	6.58E-06	12YrCancel	6.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	487270.6	3617250	6.52E-06	12YrCancel	6.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	487320.6	3617250	5.46E-06	12YrCancel	5.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	487370.6	3617250	5.44E-06	12YrCancel	5.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

524	ALL	487420.6	3617250	5.58E-06	12YrCancer	5.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL	487470.6	3617250	5.46E-06	12YrCancer	5.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL	487520.6	3617250	5.18E-06	12YrCancer	5.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL	487570.6	3617250	4.57E-06	12YrCancer	4.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL	487620.6	3617250	4.20E-06	12YrCancer	4.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL	487670.6	3617250	4.01E-06	12YrCancer	4.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL	487720.6	3617250	3.76E-06	12YrCancer	3.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531	ALL	487770.6	3617250	3.64E-06	12YrCancer	3.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
532	ALL	487820.6	3617250	3.25E-06	12YrCancer	3.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533	ALL	487870.6	3617250	3.02E-06	12YrCancer	3.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL	487920.6	3617250	2.69E-06	12YrCancer	2.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL	487970.6	3617250	2.49E-06	12YrCancer	2.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
536	ALL	488020.6	3617250	2.37E-06	12YrCancer	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
537	ALL	488070.6	3617250	2.14E-06	12YrCancer	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
538	ALL	488120.6	3617250	2.00E-06	12YrCancer	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
539	ALL	488170.6	3617250	1.84E-06	12YrCancer	1.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
540	ALL	488220.6	3617250	1.74E-06	12YrCancer	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
541	ALL	488270.6	3617250	2.14E-06	12YrCancer	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
542	ALL	488320.6	3617250	2.20E-06	12YrCancer	2.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
543	ALL	488370.6	3617250	1.95E-06	12YrCancer	1.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
544	ALL	488420.6	3617250	2.38E-06	12YrCancer	2.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
545	ALL	488470.6	3617250	3.07E-06	12YrCancer	3.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
546	ALL	488520.6	3617250	1.85E-06	12YrCancer	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
547	ALL	488570.6	3617250	2.41E-06	12YrCancer	2.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
548	ALL	488620.6	3617250	1.82E-06	12YrCancer	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
549	ALL	485870.6	3617300	3.60E-06	12YrCancer	3.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
550	ALL	485920.6	3617300	3.80E-06	12YrCancer	3.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
551	ALL	485970.6	3617300	4.03E-06	12YrCancer	4.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
552	ALL	486020.6	3617300	4.27E-06	12YrCancer	4.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
553	ALL	486070.6	3617300	4.54E-06	12YrCancer	4.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
554	ALL	486120.6	3617300	4.83E-06	12YrCancer	4.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
555	ALL	486170.6	3617300	5.15E-06	12YrCancer	5.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
556	ALL	486220.6	3617300	5.51E-06	12YrCancer	5.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
557	ALL	486270.6	3617300	5.85E-06	12YrCancer	5.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
558	ALL	486320.6	3617300	5.67E-06	12YrCancer	5.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559	ALL	486370.6	3617300	5.83E-06	12YrCancer	5.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560	ALL	486420.6	3617300	5.99E-06	12YrCancer	5.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561	ALL	486470.6	3617300	6.24E-06	12YrCancer	6.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562	ALL	486520.6	3617300	5.98E-06	12YrCancer	5.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563	ALL	486570.6	3617300	6.28E-06	12YrCancer	6.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
564	ALL	486620.6	3617300	5.81E-06	12YrCancer	5.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565	ALL	486670.6	3617300	6.06E-06	12YrCancer	6.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566	ALL	486720.6	3617300	5.80E-06	12YrCancer	5.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567	ALL	486770.6	3617300	6.05E-06	12YrCancer	6.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568	ALL	486820.6	3617300	5.72E-06	12YrCancer	5.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	ALL	486870.6	3617300	5.97E-06	12YrCancer	5.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
570	ALL	486920.6	3617300	6.25E-06	12YrCancer	6.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
571	ALL	486970.6	3617300	5.79E-06	12YrCancer	5.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
572	ALL	487020.6	3617300	5.90E-06	12YrCancer	5.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
573	ALL	487070.6	3617300	6.02E-06	12YrCancer	6.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
574	ALL	487120.6	3617300	5.47E-06	12YrCancer	5.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
575	ALL	487170.6	3617300	5.04E-06	12YrCancer	5.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
576	ALL	487220.6	3617300	4.89E-06	12YrCancer	4.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
577	ALL	487270.6	3617300	4.88E-06	12YrCancer	4.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
578	ALL	487320.6	3617300	4.52E-06	12YrCancer	4.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
579	ALL	487370.6	3617300	4.37E-06	12YrCancer	4.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
580	ALL	487420.6	3617300	4.35E-06	12YrCancer	4.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
581	ALL	487470.6	3617300	4.39E-06	12YrCancer	4.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
582	ALL	487520.6	3617300	4.44E-06	12YrCancer	4.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
583	ALL	487570.6	3617300	4.07E-06	12YrCancer	4.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
584	ALL	487620.6	3617300	3.97E-06	12YrCancer	3.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
585	ALL	487670.6	3617300	3.47E-06	12YrCancer	3.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
586	ALL	487720.6	3617300	3.32E-06	12YrCancer	3.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
587	ALL	487770.6	3617300	2.93E-06	12YrCancer	2.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
588	ALL	487820.6	3617300	2.73E-06	12YrCancer	2.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
589	ALL	487870.6	3617300	2.45E-06	12YrCancer	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
590	ALL	487920.6	3617300	2.15E-06	12YrCancer	2.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
591	ALL	487970.6	3617300	2.07E-06	12YrCancer	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
592	ALL	488020.6	3617300	1.99E-06	12YrCancer	1.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
593	ALL	488070.6	3617300	1.91E-06	12YrCancer	1.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
594	ALL	488120.6	3617300	1.82E-06	12YrCancer	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
595	ALL	488170.6	3617300	1.74E-06	12YrCancer	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
596	ALL	488220.6	3617300	1.70E-06	12YrCancer	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
597	ALL	488270.6	3617300	1.95E-06	12YrCancer	1.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
598	ALL	488320.6	3617300	1.94E-06	12YrCancer	1.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
599	ALL	488370.6	3617300	1.72E-06	12YrCancer	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	ALL	488420.6	3617300	2.25E-06	12YrCancer	2.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601	ALL	488470.6	3617300	3.02E-06	12YrCancer	3.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602	ALL	488520.6	3617300	1.53E-06	12YrCancer	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
603	ALL	488570.6	3617300	1.80E-06	12YrCancer	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604	ALL	488620.6	3617300	2.44E-06	12YrCancer	2.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
605	ALL	485870.6	3617350	3.51E-06	12YrCancer	3.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
606	ALL	485920.6	3617350	3.70E-06	12YrCancer	3.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
607	ALL	485970.6	3617350	3.91E-06	12YrCancer	3.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608	ALL	486020.6	3617350	4.13E-06	12YrCancer	4.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609	ALL	486070.6	3617350	4.38E-06	12YrCancer	4.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
610	ALL	486120.6	3617350	4.65E-06	12YrCancer	4.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
611	ALL	486170.6	3617350	4.95E-06	12YrCancer	4.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
612	ALL	486220.6	3617350	5.22E-06	12YrCancer	5.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
613	ALL	486270.6	3617350	4.92E-06	12YrCancer	4.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
614	ALL	486320.6	3617350	5.10E-06	12YrCancer	5.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
615	ALL	486370.6	3617350	5.16E-06	12YrCancer	5.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
616	ALL	486420.6	3617350	5.49E-06	12YrCancer	5.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
617	ALL	486470.6	3617350	5.28E-06	12YrCancer	5.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
618	ALL	486520.6	3617350	5.51E-06	12YrCancer	5.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
619	ALL	486570.6	3617350	5.06E-06	12YrCancer	5.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	ALL	486620.6	3617350	5.12E-06	12YrCancer	5.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
621	ALL	486670.6	3617350	4.96E-06	12YrCancer	4.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
622	ALL	486720.6	3617350	4.75E-06	12YrCancer	4.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
623	ALL	486770.6	3617350	4.90E-06	12YrCancer	4.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
624	ALL	486820.6	3617350	4.64E-06	12YrCancer	4.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
625	ALL	486870.6	3617350	4.82E-06	12YrCancer	4.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
626	ALL	486920.6	3617350	4.82E-06	12YrCancer	4.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
627	ALL	486970.6	3617350	4.69E-06	12YrCancer	4.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
628	ALL	487020.6	3617350	4.77E-06	12YrCancer	4.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

629	ALL	487070.6	3617350	4.37E-06	12YrCancer	4.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	ALL	487120.6	3617350	4.48E-06	12YrCancer	4.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
631	ALL	487170.6	3617350	4.48E-06	12YrCancer	4.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
632	ALL	487220.6	3617350	4.05E-06	12YrCancer	4.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
633	ALL	487270.6	3617350	4.07E-06	12YrCancer	4.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
634	ALL	487320.6	3617350	4.10E-06	12YrCancer	4.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
635	ALL	487370.6	3617350	4.10E-06	12YrCancer	4.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
636	ALL	487420.6	3617350	4.07E-06	12YrCancer	4.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
637	ALL	487470.6	3617350	4.02E-06	12YrCancer	4.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
638	ALL	487520.6	3617350	3.94E-06	12YrCancer	3.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
639	ALL	487570.6	3617350	3.86E-06	12YrCancer	3.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	ALL	487620.6	3617350	3.77E-06	12YrCancer	3.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
641	ALL	487670.6	3617350	3.30E-06	12YrCancer	3.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
642	ALL	487720.6	3617350	2.89E-06	12YrCancer	2.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
643	ALL	487770.6	3617350	2.57E-06	12YrCancer	2.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
644	ALL	487820.6	3617350	2.29E-06	12YrCancer	2.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
645	ALL	487870.6	3617350	2.01E-06	12YrCancer	2.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
646	ALL	487920.6	3617350	1.92E-06	12YrCancer	1.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
647	ALL	487970.6	3617350	1.86E-06	12YrCancer	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
648	ALL	488020.6	3617350	1.80E-06	12YrCancer	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
649	ALL	488070.6	3617350	1.73E-06	12YrCancer	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
650	ALL	488120.6	3617350	1.67E-06	12YrCancer	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
651	ALL	488170.6	3617350	1.61E-06	12YrCancer	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
652	ALL	488220.6	3617350	1.71E-06	12YrCancer	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
653	ALL	488270.6	3617350	1.77E-06	12YrCancer	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
654	ALL	488320.6	3617350	1.71E-06	12YrCancer	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
655	ALL	488370.6	3617350	1.79E-06	12YrCancer	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
656	ALL	488420.6	3617350	2.13E-06	12YrCancer	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
657	ALL	488470.6	3617350	3.01E-06	12YrCancer	3.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
658	ALL	488520.6	3617350	2.27E-06	12YrCancer	2.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
659	ALL	488570.6	3617350	2.45E-06	12YrCancer	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	ALL	488620.6	3617350	2.51E-06	12YrCancer	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
661	ALL	485870.6	3617400	3.41E-06	12YrCancer	3.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
662	ALL	485920.6	3617400	3.59E-06	12YrCancer	3.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
663	ALL	485970.6	3617400	3.79E-06	12YrCancer	3.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
664	ALL	486020.6	3617400	4.00E-06	12YrCancer	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
665	ALL	486070.6	3617400	4.22E-06	12YrCancer	4.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
666	ALL	486120.6	3617400	4.48E-06	12YrCancer	4.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
667	ALL	486170.6	3617400	4.72E-06	12YrCancer	4.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
668	ALL	486220.6	3617400	4.40E-06	12YrCancer	4.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
669	ALL	486270.6	3617400	4.51E-06	12YrCancer	4.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
670	ALL	486320.6	3617400	4.59E-06	12YrCancer	4.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
671	ALL	486370.6	3617400	4.63E-06	12YrCancer	4.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
672	ALL	486420.6	3617400	4.70E-06	12YrCancer	4.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
673	ALL	486470.6	3617400	4.76E-06	12YrCancer	4.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
674	ALL	486520.6	3617400	4.40E-06	12YrCancer	4.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
675	ALL	486570.6	3617400	4.20E-06	12YrCancer	4.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
676	ALL	486620.6	3617400	4.26E-06	12YrCancer	4.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
677	ALL	486670.6	3617400	4.05E-06	12YrCancer	4.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
678	ALL	486720.6	3617400	4.08E-06	12YrCancer	4.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
679	ALL	486770.6	3617400	3.95E-06	12YrCancer	3.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
680	ALL	486820.6	3617400	3.90E-06	12YrCancer	3.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
681	ALL	486870.6	3617400	3.91E-06	12YrCancer	3.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
682	ALL	486920.6	3617400	3.93E-06	12YrCancer	3.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
683	ALL	486970.6	3617400	3.66E-06	12YrCancer	3.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
684	ALL	487020.6	3617400	3.57E-06	12YrCancer	3.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
685	ALL	487070.6	3617400	3.50E-06	12YrCancer	3.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
686	ALL	487120.6	3617400	3.32E-06	12YrCancer	3.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
687	ALL	487170.6	3617400	3.42E-06	12YrCancer	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
688	ALL	487220.6	3617400	3.28E-06	12YrCancer	3.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
689	ALL	487270.6	3617400	3.34E-06	12YrCancer	3.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	ALL	487320.6	3617400	3.38E-06	12YrCancer	3.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
691	ALL	487370.6	3617400	3.84E-06	12YrCancer	3.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
692	ALL	487420.6	3617400	3.83E-06	12YrCancer	3.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
693	ALL	487470.6	3617400	3.79E-06	12YrCancer	3.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
694	ALL	487520.6	3617400	3.73E-06	12YrCancer	3.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
695	ALL	487570.6	3617400	3.65E-06	12YrCancer	3.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
696	ALL	487620.6	3617400	3.39E-06	12YrCancer	3.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
697	ALL	487670.6	3617400	3.23E-06	12YrCancer	3.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
698	ALL	487720.6	3617400	2.25E-06	12YrCancer	2.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
699	ALL	487770.6	3617400	2.10E-06	12YrCancer	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	ALL	487820.6	3617400	2.06E-06	12YrCancer	2.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
701	ALL	487870.6	3617400	2.01E-06	12YrCancer	2.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
702	ALL	487920.6	3617400	1.87E-06	12YrCancer	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
703	ALL	487970.6	3617400	1.81E-06	12YrCancer	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
704	ALL	488020.6	3617400	1.76E-06	12YrCancer	1.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
705	ALL	488070.6	3617400	1.71E-06	12YrCancer	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
706	ALL	488120.6	3617400	1.65E-06	12YrCancer	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
707	ALL	488170.6	3617400	1.59E-06	12YrCancer	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
708	ALL	488220.6	3617400	1.68E-06	12YrCancer	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
709	ALL	488270.6	3617400	1.57E-06	12YrCancer	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
710	ALL	488320.6	3617400	1.48E-06	12YrCancer	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
711	ALL	488370.6	3617400	1.51E-06	12YrCancer	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
712	ALL	488420.6	3617400	2.43E-06	12YrCancer	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
713	ALL	488470.6	3617400	3.00E-06	12YrCancer	3.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
714	ALL	488520.6	3617400	2.81E-06	12YrCancer	2.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
715	ALL	488570.6	3617400	2.66E-06	12YrCancer	2.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
716	ALL	488620.6	3617400	2.58E-06	12YrCancer	2.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
717	ALL	485870.6	3617450	3.31E-06	12YrCancer	3.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718	ALL	485920.6	3617450	3.48E-06	12YrCancer	3.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719	ALL	485970.6	3617450	3.66E-06	12YrCancer	3.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720	ALL	486020.6	3617450	3.86E-06	12YrCancer	3.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721	ALL	486070.6	3617450	4.06E-06	12YrCancer	4.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722	ALL	486120.6	3617450	3.84E-06	12YrCancer	3.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
723	ALL	486170.6	3617450	3.97E-06	12YrCancer	3.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
724	ALL	486220.6	3617450	3.91E-06	12YrCancer	3.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
725	ALL	486270.6	3617450	4.08E-06	12YrCancer	4.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
726	ALL	486320.6	3617450	4.15E-06	12YrCancer	4.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
727	ALL	486370.6	3617450	4.12E-06	12YrCancer	4.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
728	ALL	486420.6	3617450	4.25E-06	12YrCancer	4.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
729	ALL	486470.6	3617450	3.90E-06	12YrCancer	3.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
730	ALL	486520.6	3617450	3.67E-06	12YrCancer	3.67E-06	0.00E+00	0.00E+00	0.00

734	ALL	486720.6	3617450	3.42E-06	12YrCancer	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
735	ALL	486770.6	3617450	3.22E-06	12YrCancer	3.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
736	ALL	486820.6	3617450	3.32E-06	12YrCancer	3.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
737	ALL	486870.6	3617450	3.21E-06	12YrCancer	3.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
738	ALL	486920.6	3617450	3.26E-06	12YrCancer	3.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
739	ALL	486970.6	3617450	2.92E-06	12YrCancer	2.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740	ALL	487020.6	3617450	2.79E-06	12YrCancer	2.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
741	ALL	487070.6	3617450	2.75E-06	12YrCancer	2.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
742	ALL	487120.6	3617450	2.54E-06	12YrCancer	2.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
743	ALL	487170.6	3617450	2.59E-06	12YrCancer	2.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
744	ALL	487220.6	3617450	2.70E-06	12YrCancer	2.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
745	ALL	487270.6	3617450	3.12E-06	12YrCancer	3.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
746	ALL	487320.6	3617450	3.21E-06	12YrCancer	3.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
747	ALL	487370.6	3617450	3.60E-06	12YrCancer	3.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
748	ALL	487420.6	3617450	3.60E-06	12YrCancer	3.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
749	ALL	487470.6	3617450	3.57E-06	12YrCancer	3.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750	ALL	487520.6	3617450	3.49E-06	12YrCancer	3.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
751	ALL	487570.6	3617450	2.87E-06	12YrCancer	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
752	ALL	487620.6	3617450	2.12E-06	12YrCancer	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
753	ALL	487670.6	3617450	1.94E-06	12YrCancer	1.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
754	ALL	487720.6	3617450	1.91E-06	12YrCancer	1.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
755	ALL	487770.6	3617450	1.89E-06	12YrCancer	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
756	ALL	487820.6	3617450	1.80E-06	12YrCancer	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
757	ALL	487870.6	3617450	1.68E-06	12YrCancer	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
758	ALL	487920.6	3617450	1.65E-06	12YrCancer	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
759	ALL	487970.6	3617450	1.65E-06	12YrCancer	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
760	ALL	488020.6	3617450	1.54E-06	12YrCancer	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
761	ALL	488070.6	3617450	1.50E-06	12YrCancer	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
762	ALL	488120.6	3617450	1.53E-06	12YrCancer	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
763	ALL	488170.6	3617450	1.42E-06	12YrCancer	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
764	ALL	488220.6	3617450	1.50E-06	12YrCancer	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
765	ALL	488270.6	3617450	1.44E-06	12YrCancer	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
766	ALL	488320.6	3617450	1.25E-06	12YrCancer	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
767	ALL	488370.6	3617450	1.40E-06	12YrCancer	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
768	ALL	488420.6	3617450	2.98E-06	12YrCancer	2.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
769	ALL	488470.6	3617450	2.97E-06	12YrCancer	2.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
770	ALL	488520.6	3617450	2.83E-06	12YrCancer	2.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
771	ALL	488570.6	3617450	2.69E-06	12YrCancer	2.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
772	ALL	488620.6	3617450	2.49E-06	12YrCancer	2.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
773	ALL	485870.6	3617500	3.22E-06	12YrCancer	3.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
774	ALL	485920.6	3617500	3.37E-06	12YrCancer	3.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
775	ALL	485970.6	3617500	3.54E-06	12YrCancer	3.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
776	ALL	486020.6	3617500	3.69E-06	12YrCancer	3.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
777	ALL	486070.6	3617500	3.46E-06	12YrCancer	3.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
778	ALL	486120.6	3617500	3.63E-06	12YrCancer	3.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
779	ALL	486170.6	3617500	3.59E-06	12YrCancer	3.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
780	ALL	486220.6	3617500	3.73E-06	12YrCancer	3.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
781	ALL	486270.6	3617500	3.65E-06	12YrCancer	3.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
782	ALL	486320.6	3617500	3.71E-06	12YrCancer	3.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
783	ALL	486370.6	3617500	3.44E-06	12YrCancer	3.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
784	ALL	486420.6	3617500	3.53E-06	12YrCancer	3.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
785	ALL	486470.6	3617500	3.34E-06	12YrCancer	3.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
786	ALL	486520.6	3617500	3.14E-06	12YrCancer	3.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
787	ALL	486570.6	3617500	3.23E-06	12YrCancer	3.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
788	ALL	486620.6	3617500	3.01E-06	12YrCancer	3.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
789	ALL	486670.6	3617500	2.80E-06	12YrCancer	2.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790	ALL	486720.6	3617500	2.87E-06	12YrCancer	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
791	ALL	486770.6	3617500	2.71E-06	12YrCancer	2.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
792	ALL	486820.6	3617500	2.76E-06	12YrCancer	2.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
793	ALL	486870.6	3617500	2.61E-06	12YrCancer	2.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
794	ALL	486920.6	3617500	2.73E-06	12YrCancer	2.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
795	ALL	486970.6	3617500	2.43E-06	12YrCancer	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
796	ALL	487020.6	3617500	2.28E-06	12YrCancer	2.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
797	ALL	487070.6	3617500	2.09E-06	12YrCancer	2.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
798	ALL	487120.6	3617500	2.16E-06	12YrCancer	2.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
799	ALL	487170.6	3617500	2.19E-06	12YrCancer	2.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	ALL	487220.6	3617500	2.38E-06	12YrCancer	2.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
801	ALL	487270.6	3617500	2.93E-06	12YrCancer	2.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
802	ALL	487320.6	3617500	3.33E-06	12YrCancer	3.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
803	ALL	487370.6	3617500	3.38E-06	12YrCancer	3.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
804	ALL	487420.6	3617500	3.09E-06	12YrCancer	3.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
805	ALL	487470.6	3617500	2.84E-06	12YrCancer	2.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
806	ALL	487520.6	3617500	2.41E-06	12YrCancer	2.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
807	ALL	487570.6	3617500	1.79E-06	12YrCancer	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
808	ALL	487620.6	3617500	1.69E-06	12YrCancer	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
809	ALL	487670.6	3617500	1.70E-06	12YrCancer	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
810	ALL	487720.6	3617500	1.57E-06	12YrCancer	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
811	ALL	487770.6	3617500	1.55E-06	12YrCancer	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
812	ALL	487820.6	3617500	1.53E-06	12YrCancer	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
813	ALL	487870.6	3617500	1.51E-06	12YrCancer	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
814	ALL	487920.6	3617500	1.48E-06	12YrCancer	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
815	ALL	487970.6	3617500	1.41E-06	12YrCancer	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
816	ALL	488020.6	3617500	1.30E-06	12YrCancer	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
817	ALL	488070.6	3617500	1.27E-06	12YrCancer	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
818	ALL	488120.6	3617500	1.23E-06	12YrCancer	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
819	ALL	488170.6	3617500	1.20E-06	12YrCancer	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
820	ALL	488220.6	3617500	1.27E-06	12YrCancer	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
821	ALL	488270.6	3617500	1.26E-06	12YrCancer	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
822	ALL	488320.6	3617500	1.16E-06	12YrCancer	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
823	ALL	488370.6	3617500	1.64E-06	12YrCancer	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
824	ALL	488420.6	3617500	3.03E-06	12YrCancer	3.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
825	ALL	488470.6	3617500	2.93E-06	12YrCancer	2.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
826	ALL	488520.6	3617500	2.80E-06	12YrCancer	2.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
827	ALL	488570.6	3617500	2.67E-06	12YrCancer	2.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
828	ALL	488620.6	3617500	2.48E-06	12YrCancer	2.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
829	ALL	485870.6	3617550	3.12E-06	12YrCancer	3.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830	ALL	485920.6	3617550	3.25E-06	12YrCancer	3.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
831	ALL	485970.6	3617550	3.12E-06	12YrCancer	3.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
832	ALL	486020.6	3617550	3.17E-06	12YrCancer	3.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
833	ALL	486070.6	3617550	3.32E-06	12YrCancer	3.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
834	ALL	486120.6	3617550	3.29E-06	12YrCancer	3.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
835	ALL	486170.6	3617550	3.40E-06	12YrCancer	3.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
836	ALL	486220.6	3617550	3.39E-06	12YrCancer	3.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
837	ALL	486270.6	3617550	3.37E-06	12YrCancer	3.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
838	ALL	486320.6	3617550	3.16E-06	12YrCancer	3.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

839	ALL	486370.6	3617550	3.19E-06	12YrCancer	3.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840	ALL	486420.6	3617550	3.04E-06	12YrCancer	3.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
841	ALL	486470.6	3617550	2.89E-06	12YrCancer	2.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
842	ALL	486520.6	3617550	2.89E-06	12YrCancer	2.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
843	ALL	486570.6	3617550	2.74E-06	12YrCancer	2.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
844	ALL	486620.6	3617550	2.58E-06	12YrCancer	2.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
845	ALL	486670.6	3617550	2.43E-06	12YrCancer	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
846	ALL	486720.6	3617550	2.28E-06	12YrCancer	2.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
847	ALL	486770.6	3617550	2.28E-06	12YrCancer	2.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
848	ALL	486820.6	3617550	2.15E-06	12YrCancer	2.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
849	ALL	486870.6	3617550	2.05E-06	12YrCancer	2.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
850	ALL	486920.6	3617550	2.07E-06	12YrCancer	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
851	ALL	486970.6	3617550	1.90E-06	12YrCancer	1.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
852	ALL	487020.6	3617550	1.78E-06	12YrCancer	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
853	ALL	487070.6	3617550	1.62E-06	12YrCancer	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
854	ALL	487120.6	3617550	1.68E-06	12YrCancer	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
855	ALL	487170.6	3617550	1.73E-06	12YrCancer	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
856	ALL	487220.6	3617550	1.86E-06	12YrCancer	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
857	ALL	487270.6	3617550	2.68E-06	12YrCancer	2.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
858	ALL	487320.6	3617550	2.82E-06	12YrCancer	2.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
859	ALL	487370.6	3617550	2.46E-06	12YrCancer	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
860	ALL	487420.6	3617550	1.92E-06	12YrCancer	1.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
861	ALL	487470.6	3617550	1.75E-06	12YrCancer	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
862	ALL	487520.6	3617550	1.74E-06	12YrCancer	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
863	ALL	487570.6	3617550	1.57E-06	12YrCancer	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
864	ALL	487620.6	3617550	1.50E-06	12YrCancer	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
865	ALL	487670.6	3617550	1.46E-06	12YrCancer	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
866	ALL	487720.6	3617550	1.41E-06	12YrCancer	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
867	ALL	487770.6	3617550	1.40E-06	12YrCancer	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
868	ALL	487820.6	3617550	1.39E-06	12YrCancer	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
869	ALL	487870.6	3617550	1.31E-06	12YrCancer	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
870	ALL	487920.6	3617550	1.24E-06	12YrCancer	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
871	ALL	487970.6	3617550	1.11E-06	12YrCancer	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
872	ALL	488020.6	3617550	1.06E-06	12YrCancer	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
873	ALL	488070.6	3617550	1.05E-06	12YrCancer	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
874	ALL	488120.6	3617550	1.02E-06	12YrCancer	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
875	ALL	488170.6	3617550	1.03E-06	12YrCancer	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
876	ALL	488220.6	3617550	1.08E-06	12YrCancer	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
877	ALL	488270.6	3617550	1.18E-06	12YrCancer	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
878	ALL	488320.6	3617550	1.28E-06	12YrCancer	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
879	ALL	488370.6	3617550	2.30E-06	12YrCancer	2.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
880	ALL	488420.6	3617550	2.97E-06	12YrCancer	2.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
881	ALL	488470.6	3617550	2.89E-06	12YrCancer	2.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
882	ALL	488520.6	3617550	2.76E-06	12YrCancer	2.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
883	ALL	488570.6	3617550	2.63E-06	12YrCancer	2.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
884	ALL	488620.6	3617550	2.49E-06	12YrCancer	2.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
885	ALL	485870.6	3617600	3.01E-06	12YrCancer	3.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
886	ALL	485920.6	3617600	2.80E-06	12YrCancer	2.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
887	ALL	485970.6	3617600	2.93E-06	12YrCancer	2.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
888	ALL	486020.6	3617600	3.04E-06	12YrCancer	3.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
889	ALL	486070.6	3617600	2.98E-06	12YrCancer	2.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
890	ALL	486120.6	3617600	3.12E-06	12YrCancer	3.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
891	ALL	486170.6	3617600	3.24E-06	12YrCancer	3.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
892	ALL	486220.6	3617600	3.08E-06	12YrCancer	3.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
893	ALL	486270.6	3617600	3.21E-06	12YrCancer	3.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
894	ALL	486320.6	3617600	2.91E-06	12YrCancer	2.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
895	ALL	486370.6	3617600	2.72E-06	12YrCancer	2.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
896	ALL	486420.6	3617600	2.62E-06	12YrCancer	2.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
897	ALL	486470.6	3617600	2.62E-06	12YrCancer	2.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
898	ALL	486520.6	3617600	2.45E-06	12YrCancer	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
899	ALL	486570.6	3617600	2.33E-06	12YrCancer	2.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
900	ALL	486620.6	3617600	2.22E-06	12YrCancer	2.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
901	ALL	486670.6	3617600	2.11E-06	12YrCancer	2.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
902	ALL	486720.6	3617600	1.96E-06	12YrCancer	1.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL	486770.6	3617600	1.81E-06	12YrCancer	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
904	ALL	486820.6	3617600	1.67E-06	12YrCancer	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
905	ALL	486870.6	3617600	1.72E-06	12YrCancer	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
906	ALL	486920.6	3617600	1.59E-06	12YrCancer	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
907	ALL	486970.6	3617600	1.50E-06	12YrCancer	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
908	ALL	487020.6	3617600	1.44E-06	12YrCancer	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
909	ALL	487070.6	3617600	1.45E-06	12YrCancer	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
910	ALL	487120.6	3617600	1.50E-06	12YrCancer	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
911	ALL	487170.6	3617600	1.53E-06	12YrCancer	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
912	ALL	487220.6	3617600	1.73E-06	12YrCancer	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
913	ALL	487270.6	3617600	2.89E-06	12YrCancer	2.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
914	ALL	487320.6	3617600	2.26E-06	12YrCancer	2.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
915	ALL	487370.6	3617600	1.55E-06	12YrCancer	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
916	ALL	487420.6	3617600	1.54E-06	12YrCancer	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
917	ALL	487470.6	3617600	1.47E-06	12YrCancer	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
918	ALL	487520.6	3617600	1.42E-06	12YrCancer	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
919	ALL	487570.6	3617600	1.41E-06	12YrCancer	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
920	ALL	487620.6	3617600	1.33E-06	12YrCancer	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
921	ALL	487670.6	3617600	1.30E-06	12YrCancer	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
922	ALL	487720.6	3617600	1.28E-06	12YrCancer	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
923	ALL	487770.6	3617600	1.27E-06	12YrCancer	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
924	ALL	487820.6	3617600	1.18E-06	12YrCancer	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
925	ALL	487870.6	3617600	1.15E-06	12YrCancer	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
926	ALL	487920.6	3617600	1.08E-06	12YrCancer	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
927	ALL	487970.6	3617600	9.74E-07	12YrCancer	9.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
928	ALL	488020.6	3617600	8.92E-07	12YrCancer	8.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
929	ALL	488070.6	3617600	9.35E-07	12YrCancer	9.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
930	ALL	488120.6	3617600	9.14E-07	12YrCancer	9.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
931	ALL	488170.6	3617600	9.64E-07	12YrCancer	9.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
932	ALL	488220.6	3617600	1.02E-06	12YrCancer	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
933	ALL	488270.6	3617600	1.18E-06	12YrCancer	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
934	ALL	488320.6	3617600	1.61E-06	12YrCancer	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
935	ALL	488370.6	3617600	2.37E-06	12YrCancer	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
936	ALL	488420.6	3617600	2.84E-06	12YrCancer	2.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
937	ALL	488470.6	3617600	2.84E-06	12YrCancer	2.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
938	ALL	488520.6	3617600	2.72E-06	12YrCancer	2.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
939	ALL	488570.6	3617600	2.60E-06	12YrCancer	2.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
940	ALL	488620.6	3617600	2.48E-06	12YrCancer	2.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
941	ALL	485870.6	3617650	2.68E-06	12YrCancer	2.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
942	ALL	485920.6	3617650	2.71E-06	12YrCancer	2.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
943	ALL	485970.6	3617650	2.83E-06	12YrCancer	2.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

944	ALL	486020.6	3617650	2.78E-06	12YrCancer	2.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
945	ALL	486070.6	3617650	2.87E-06	12YrCancer	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
946	ALL	486120.6	3617650	2.99E-06	12YrCancer	2.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
947	ALL	486170.6	3617650	2.86E-06	12YrCancer	2.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
948	ALL	486220.6	3617650	2.94E-06	12YrCancer	2.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
949	ALL	486270.6	3617650	2.79E-06	12YrCancer	2.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
950	ALL	486320.6	3617650	2.68E-06	12YrCancer	2.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
951	ALL	486370.6	3617650	2.58E-06	12YrCancer	2.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
952	ALL	486420.6	3617650	2.43E-06	12YrCancer	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
953	ALL	486470.6	3617650	2.27E-06	12YrCancer	2.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
954	ALL	486520.6	3617650	2.12E-06	12YrCancer	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
955	ALL	486570.6	3617650	2.01E-06	12YrCancer	2.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
956	ALL	486620.6	3617650	1.91E-06	12YrCancer	1.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
957	ALL	486670.6	3617650	1.81E-06	12YrCancer	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
958	ALL	486720.6	3617650	1.68E-06	12YrCancer	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
959	ALL	486770.6	3617650	1.55E-06	12YrCancer	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
960	ALL	486820.6	3617650	1.44E-06	12YrCancer	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
961	ALL	486870.6	3617650	1.38E-06	12YrCancer	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
962	ALL	486920.6	3617650	1.32E-06	12YrCancer	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
963	ALL	486970.6	3617650	1.30E-06	12YrCancer	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
964	ALL	487020.6	3617650	1.33E-06	12YrCancer	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
965	ALL	487070.6	3617650	1.38E-06	12YrCancer	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
966	ALL	487120.6	3617650	1.43E-06	12YrCancer	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL	487170.6	3617650	1.64E-06	12YrCancer	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
968	ALL	487220.6	3617650	2.25E-06	12YrCancer	2.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
969	ALL	487270.6	3617650	1.82E-06	12YrCancer	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	ALL	487320.6	3617650	1.49E-06	12YrCancer	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
971	ALL	487370.6	3617650	1.36E-06	12YrCancer	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
972	ALL	487420.6	3617650	1.26E-06	12YrCancer	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
973	ALL	487470.6	3617650	1.27E-06	12YrCancer	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
974	ALL	487520.6	3617650	1.22E-06	12YrCancer	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
975	ALL	487570.6	3617650	1.17E-06	12YrCancer	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
976	ALL	487620.6	3617650	1.17E-06	12YrCancer	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
977	ALL	487670.6	3617650	1.16E-06	12YrCancer	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
978	ALL	487720.6	3617650	1.14E-06	12YrCancer	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
979	ALL	487770.6	3617650	1.14E-06	12YrCancer	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	ALL	487820.6	3617650	1.06E-06	12YrCancer	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
981	ALL	487870.6	3617650	1.04E-06	12YrCancer	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
982	ALL	487920.6	3617650	9.69E-07	12YrCancer	9.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
983	ALL	487970.6	3617650	9.43E-07	12YrCancer	9.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
984	ALL	488020.6	3617650	9.14E-07	12YrCancer	9.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
985	ALL	488070.6	3617650	8.58E-07	12YrCancer	8.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
986	ALL	488120.6	3617650	9.13E-07	12YrCancer	9.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
987	ALL	488170.6	3617650	1.01E-06	12YrCancer	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
988	ALL	488220.6	3617650	1.07E-06	12YrCancer	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
989	ALL	488270.6	3617650	1.15E-06	12YrCancer	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
990	ALL	488320.6	3617650	1.17E-06	12YrCancer	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
991	ALL	488370.6	3617650	2.07E-06	12YrCancer	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
992	ALL	488420.6	3617650	2.83E-06	12YrCancer	2.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
993	ALL	488470.6	3617650	2.79E-06	12YrCancer	2.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
994	ALL	488520.6	3617650	2.68E-06	12YrCancer	2.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
995	ALL	488570.6	3617650	2.56E-06	12YrCancer	2.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
996	ALL	488620.6	3617650	2.41E-06	12YrCancer	2.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
997	ALL	485870.6	3617700	2.52E-06	12YrCancer	2.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
998	ALL	485920.6	3617700	2.54E-06	12YrCancer	2.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
999	ALL	485970.6	3617700	2.58E-06	12YrCancer	2.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1000	ALL	486020.6	3617700	2.65E-06	12YrCancer	2.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1001	ALL	486070.6	3617700	2.64E-06	12YrCancer	2.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1002	ALL	486120.6	3617700	2.65E-06	12YrCancer	2.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1003	ALL	486170.6	3617700	2.71E-06	12YrCancer	2.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1004	ALL	486220.6	3617700	2.59E-06	12YrCancer	2.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1005	ALL	486270.6	3617700	2.46E-06	12YrCancer	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1006	ALL	486320.6	3617700	2.34E-06	12YrCancer	2.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1007	ALL	486370.6	3617700	2.23E-06	12YrCancer	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1008	ALL	486420.6	3617700	2.14E-06	12YrCancer	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1009	ALL	486470.6	3617700	2.06E-06	12YrCancer	2.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1010	ALL	486520.6	3617700	1.87E-06	12YrCancer	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1011	ALL	486570.6	3617700	1.75E-06	12YrCancer	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1012	ALL	486620.6	3617700	1.64E-06	12YrCancer	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1013	ALL	486670.6	3617700	1.53E-06	12YrCancer	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1014	ALL	486720.6	3617700	1.37E-06	12YrCancer	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1015	ALL	486770.6	3617700	1.27E-06	12YrCancer	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1016	ALL	486820.6	3617700	1.20E-06	12YrCancer	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1017	ALL	486870.6	3617700	1.14E-06	12YrCancer	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1018	ALL	486920.6	3617700	1.17E-06	12YrCancer	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1019	ALL	486970.6	3617700	1.22E-06	12YrCancer	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1020	ALL	487020.6	3617700	1.27E-06	12YrCancer	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1021	ALL	487070.6	3617700	1.32E-06	12YrCancer	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1022	ALL	487120.6	3617700	1.36E-06	12YrCancer	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1023	ALL	487170.6	3617700	1.45E-06	12YrCancer	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1024	ALL	487220.6	3617700	1.41E-06	12YrCancer	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1025	ALL	487270.6	3617700	1.27E-06	12YrCancer	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1026	ALL	487320.6	3617700	1.22E-06	12YrCancer	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1027	ALL	487370.6	3617700	1.18E-06	12YrCancer	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1028	ALL	487420.6	3617700	1.13E-06	12YrCancer	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1029	ALL	487470.6	3617700	1.06E-06	12YrCancer	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1030	ALL	487520.6	3617700	1.06E-06	12YrCancer	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1031	ALL	487570.6	3617700	1.06E-06	12YrCancer	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1032	ALL	487620.6	3617700	1.06E-06	12YrCancer	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1033	ALL	487670.6	3617700	1.05E-06	12YrCancer	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1034	ALL	487720.6	3617700	1.05E-06	12YrCancer	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1035	ALL	487770.6	3617700	1.01E-06	12YrCancer	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1036	ALL	487820.6	3617700	9.91E-07	12YrCancer	9.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1037	ALL	487870.6	3617700	9.28E-07	12YrCancer	9.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1038	ALL	487920.6	3617700	8.91E-07	12YrCancer	8.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1039	ALL	487970.6	3617700	9.13E-07	12YrCancer	9.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1040	ALL	488020.6	3617700	9.01E-07	12YrCancer	9.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1041	ALL	488070.6	3617700	9.60E-07	12YrCancer	9.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1042	ALL	488120.6	3617700	1.12E-06	12YrCancer	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1043	ALL	488170.6	3617700	1.19E-06	12YrCancer	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1044	ALL	488220.6	3617700	1.40E-06	12YrCancer	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1045	ALL	488270.6	3617700	1.45E-06	12YrCancer	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1046	ALL	488320.6	3617700	1.46E-06	12YrCancer	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1047	ALL	488370.6	3617700	1.88E-06	12YrCancer	1.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1048	ALL	488420.6	3617700	2.78E-06	12YrCancer	2.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1049	ALL	488470.6	3617700	2.74E-06	12YrCancer	2.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1050	ALL	488520.6	3617700	2.63E-06	12YrCancer	2.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1051	ALL	488570.6	3617700	2.52E-06	12YrCancer	2.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1052	ALL	488620.6	3617700	2.42E-06	12YrCancer	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1053	ALL	485870.6	3617750	2.36E-06	12YrCancer	2.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1054	ALL	485920.6	3617750	2.37E-06	12YrCancer	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1055	ALL	485970.6	3617750	2.44E-06	12YrCancer	2.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1056	ALL	486020.6	3617750	2.33E-06	12YrCancer	2.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1057	ALL	486070.6	3617750	2.41E-06	12YrCancer	2.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1058	ALL	486120.6	3617750	2.47E-06	12YrCancer	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1059	ALL	486170.6	3617750	2.40E-06	12YrCancer	2.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1060	ALL	486220.6	3617750	2.31E-06	12YrCancer	2.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1061	ALL	486270.6	3617750	2.21E-06	12YrCancer	2.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1062	ALL	486320.6	3617750	2.17E-06	12YrCancer	2.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1063	ALL	486370.6	3617750	2.09E-06	12YrCancer	2.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1064	ALL	486420.6	3617750	1.96E-06	12YrCancer	1.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1065	ALL	486470.6	3617750	1.83E-06	12YrCancer	1.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1066	ALL	486520.6	3617750	1.69E-06	12YrCancer	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1067	ALL	486570.6	3617750	1.60E-06	12YrCancer	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1068	ALL	486620.6	3617750	1.41E-06	12YrCancer	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1069	ALL	486670.6	3617750	1.30E-06	12YrCancer	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1070	ALL	486720.6	3617750	1.18E-06	12YrCancer	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1071	ALL	486770.6	3617750	1.10E-06	12YrCancer	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1072	ALL	486820.6	3617750	1.03E-06	12YrCancer	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1073	ALL	486870.6	3617750	1.08E-06	12YrCancer	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1074	ALL	486920.6	3617750	1.12E-06	12YrCancer	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1075	ALL	486970.6	3617750	1.17E-06	12YrCancer	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1076	ALL	487020.6	3617750	1.22E-06	12YrCancer	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1077	ALL	487070.6	3617750	1.26E-06	12YrCancer	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1078	ALL	487120.6	3617750	1.28E-06	12YrCancer	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1079	ALL	487170.6	3617750	1.22E-06	12YrCancer	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1080	ALL	487220.6	3617750	1.18E-06	12YrCancer	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1081	ALL	487270.6	3617750	1.05E-06	12YrCancer	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1082	ALL	487320.6	3617750	1.07E-06	12YrCancer	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1083	ALL	487370.6	3617750	1.00E-06	12YrCancer	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1084	ALL	487420.6	3617750	9.52E-07	12YrCancer	9.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1085	ALL	487470.6	3617750	8.91E-07	12YrCancer	8.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1086	ALL	487520.6	3617750	8.93E-07	12YrCancer	8.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1087	ALL	487570.6	3617750	8.95E-07	12YrCancer	8.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1088	ALL	487620.6	3617750	9.02E-07	12YrCancer	9.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1089	ALL	487670.6	3617750	9.62E-07	12YrCancer	9.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1090	ALL	487720.6	3617750	9.51E-07	12YrCancer	9.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1091	ALL	487770.6	3617750	8.95E-07	12YrCancer	8.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1092	ALL	487820.6	3617750	8.95E-07	12YrCancer	8.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1093	ALL	487870.6	3617750	8.91E-07	12YrCancer	8.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1094	ALL	487920.6	3617750	8.81E-07	12YrCancer	8.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1095	ALL	487970.6	3617750	8.97E-07	12YrCancer	8.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1096	ALL	488020.6	3617750	9.05E-07	12YrCancer	9.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1097	ALL	488070.6	3617750	1.15E-06	12YrCancer	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1098	ALL	488120.6	3617750	1.51E-06	12YrCancer	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1099	ALL	488170.6	3617750	1.47E-06	12YrCancer	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1100	ALL	488220.6	3617750	1.70E-06	12YrCancer	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1101	ALL	488270.6	3617750	1.79E-06	12YrCancer	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1102	ALL	488320.6	3617750	1.93E-06	12YrCancer	1.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1103	ALL	488370.6	3617750	2.58E-06	12YrCancer	2.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1104	ALL	488420.6	3617750	2.73E-06	12YrCancer	2.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1105	ALL	488470.6	3617750	2.69E-06	12YrCancer	2.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1106	ALL	488520.6	3617750	2.59E-06	12YrCancer	2.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1107	ALL	488570.6	3617750	2.48E-06	12YrCancer	2.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1108	ALL	488620.6	3617750	2.38E-06	12YrCancer	2.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1109	ALL	485870.6	3617800	2.21E-06	12YrCancer	2.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1110	ALL	485920.6	3617800	2.29E-06	12YrCancer	2.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1111	ALL	485970.6	3617800	2.18E-06	12YrCancer	2.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1112	ALL	486020.6	3617800	2.24E-06	12YrCancer	2.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1113	ALL	486070.6	3617800	2.31E-06	12YrCancer	2.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1114	ALL	486120.6	3617800	2.12E-06	12YrCancer	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1115	ALL	486170.6	3617800	2.12E-06	12YrCancer	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1116	ALL	486220.6	3617800	2.05E-06	12YrCancer	2.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1117	ALL	486270.6	3617800	2.00E-06	12YrCancer	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1118	ALL	486370.6	3617800	1.83E-06	12YrCancer	1.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1119	ALL	486420.6	3617800	1.72E-06	12YrCancer	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1120	ALL	486470.6	3617800	1.69E-06	12YrCancer	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1121	ALL	486520.6	3617800	1.62E-06	12YrCancer	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1122	ALL	486570.6	3617800	1.40E-06	12YrCancer	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1123	ALL	486620.6	3617800	1.23E-06	12YrCancer	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1124	ALL	486670.6	3617800	1.13E-06	12YrCancer	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1125	ALL	486720.6	3617800	1.03E-06	12YrCancer	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1126	ALL	486770.6	3617800	9.62E-07	12YrCancer	9.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1127	ALL	486820.6	3617800	9.93E-07	12YrCancer	9.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1128	ALL	486870.6	3617800	1.04E-06	12YrCancer	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1129	ALL	486920.6	3617800	1.08E-06	12YrCancer	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1130	ALL	486970.6	3617800	1.13E-06	12YrCancer	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1131	ALL	487020.6	3617800	1.10E-06	12YrCancer	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1132	ALL	487070.6	3617800	9.69E-07	12YrCancer	9.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1133	ALL	487120.6	3617800	8.82E-07	12YrCancer	8.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1134	ALL	487170.6	3617800	9.24E-07	12YrCancer	9.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1135	ALL	487220.6	3617800	9.23E-07	12YrCancer	9.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1136	ALL	487270.6	3617800	9.34E-07	12YrCancer	9.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1137	ALL	487320.6	3617800	8.87E-07	12YrCancer	8.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1138	ALL	487370.6	3617800	8.42E-07	12YrCancer	8.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1139	ALL	487420.6	3617800	8.55E-07	12YrCancer	8.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1140	ALL	487470.6	3617800	8.13E-07	12YrCancer	8.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1141	ALL	487520.6	3617800	8.02E-07	12YrCancer	8.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1142	ALL	487570.6	3617800	8.07E-07	12YrCancer	8.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1143	ALL	487620.6	3617800	8.62E-07	12YrCancer	8.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1144	ALL	487670.6	3617800	8.66E-07	12YrCancer	8.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1145	ALL	487720.6	3617800	8.55E-07	12YrCancer	8.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1146	ALL	487770.6	3617800	8.08E-07	12YrCancer	8.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1147	ALL	487820.6	3617800	8.08E-07	12YrCancer	8.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1148	ALL	487870.6	3617800	8.61E-07	12YrCancer	8.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1149	ALL	487920.6	3617800	9.64E-07	12YrCancer	9.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1150	ALL	487970.6	3617800	1.04E-06	12YrCancer	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1151	ALL	488020.6	3617800	1.30E-06	12YrCancer	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1152	ALL	488070.6	3617800	1.54E-06	12YrCancer	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1153	ALL	488120.6	3617800	2.04E-06	12YrCancer	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1154	ALL	488170.6	3617800	2.13E-06	12YrCancer	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1155	ALL	488220.6	3617800	2.31E-06	12YrCancer	2.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1156	ALL	488270.6	3617800	2.29E-06	12YrCancer	2.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1157	ALL	488320.6	3617800	2.82E-06	12YrCancer	2.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1158	ALL	488370.6	3617800	2.74E-06	12YrCancer	2.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1159	ALL	488420.6	3617800	2.70E-06	12YrCancer	2.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1160	ALL	488470.6	3617800	2.64E-06	12YrCancer	2.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1161	ALL	488520.6	3617800	2.54E-06	12YrCancer	2.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1162	ALL	488570.6	3617800	2.44E-06	12YrCancer	2.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1163	ALL	488620.6	3617800	2.35E-06	12YrCancer	2.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1164	ALL	485870.6	3617850	2.14E-06	12YrCancer	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1165	ALL	485920.6	3617850	2.12E-06	12YrCancer	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1166	ALL	485970.6	3617850	2.09E-06	12YrCancer	2.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1167	ALL	486020.6	3617850	2.12E-06	12YrCancer	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1168	ALL	486070.6	3617850	1.97E-06	12YrCancer	1.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1169	ALL	486120.6	3617850	1.96E-06	12YrCancer	1.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1170	ALL	486170.6	3617850	1.91E-06	12YrCancer	1.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1171	ALL	486220.6	3617850	1.87E-06	12YrCancer	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1172	ALL	486420.6	3617850	1.58E-06	12YrCancer	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1173	ALL	486470.6	3617850	1.49E-06	12YrCancer	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1174	ALL	486520.6	3617850	1.39E-06	12YrCancer	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1175	ALL	486570.6	3617850	1.25E-06	12YrCancer	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1176	ALL	486620.6	3617850	1.06E-06	12YrCancer	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1177	ALL	486670.6	3617850	9.53E-07	12YrCancer	9.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1178	ALL	486720.6	3617850	8.98E-07	12YrCancer	8.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1179	ALL	486770.6	3617850	8.70E-07	12YrCancer	8.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1180	ALL	486820.6	3617850	9.12E-07	12YrCancer	9.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1181	ALL	486870.6	3617850	1.00E-06	12YrCancer	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1182	ALL	486920.6	3617850	1.04E-06	12YrCancer	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1183	ALL	486970.6	3617850	1.03E-06	12YrCancer	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1184	ALL	487020.6	3617850	8.27E-07	12YrCancer	8.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1185	ALL	487070.6	3617850	7.37E-07	12YrCancer	7.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1186	ALL	487120.6	3617850	6.67E-07	12YrCancer	6.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1187	ALL	487170.6	3617850	7.35E-07	12YrCancer	7.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1188	ALL	487220.6	3617850	7.65E-07	12YrCancer	7.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1189	ALL	487270.6	3617850	7.86E-07	12YrCancer	7.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1190	ALL	487320.6	3617850	7.83E-07	12YrCancer	7.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1191	ALL	487370.6	3617850	7.54E-07	12YrCancer	7.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1192	ALL	487420.6	3617850	7.51E-07	12YrCancer	7.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1193	ALL	487470.6	3617850	7.67E-07	12YrCancer	7.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1194	ALL	487520.6	3617850	7.65E-07	12YrCancer	7.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1195	ALL	487570.6	3617850	7.69E-07	12YrCancer	7.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1196	ALL	487620.6	3617850	7.96E-07	12YrCancer	7.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1197	ALL	487670.6	3617850	7.95E-07	12YrCancer	7.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1198	ALL	487720.6	3617850	7.65E-07	12YrCancer	7.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1199	ALL	487770.6	3617850	7.64E-07	12YrCancer	7.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	ALL	487820.6	3617850	7.65E-07	12YrCancer	7.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1201	ALL	487870.6	3617850	8.90E-07	12YrCancer	8.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1202	ALL	487920.6	3617850	9.80E-07	12YrCancer	9.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1203	ALL	487970.6	3617850	1.13E-06	12YrCancer	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1204	ALL	488020.6	3617850	1.32E-06	12YrCancer	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1205	ALL	488070.6	3617850	1.84E-06	12YrCancer	1.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1206	ALL	488120.6	3617850	2.40E-06	12YrCancer	2.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1207	ALL	488170.6	3617850	2.35E-06	12YrCancer	2.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1208	ALL	488220.6	3617850	2.30E-06	12YrCancer	2.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1209	ALL	488270.6	3617850	2.24E-06	12YrCancer	2.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1210	ALL	488320.6	3617850	2.26E-06	12YrCancer	2.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1211	ALL	488370.6	3617850	2.68E-06	12YrCancer	2.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1212	ALL	488420.6	3617850	2.65E-06	12YrCancer	2.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1213	ALL	488470.6	3617850	2.59E-06	12YrCancer	2.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1214	ALL	488520.6	3617850	2.49E-06	12YrCancer	2.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1215	ALL	488570.6	3617850	2.40E-06	12YrCancer	2.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1216	ALL	488620.6	3617850	2.31E-06	12YrCancer	2.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1217	ALL	485870.6	3617900	1.99E-06	12YrCancer	1.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1218	ALL	485920.6	3617900	1.96E-06	12YrCancer	1.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1219	ALL	485970.6	3617900	2.02E-06	12YrCancer	2.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1220	ALL	486020.6	3617900	1.84E-06	12YrCancer	1.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1221	ALL	486070.6	3617900	1.86E-06	12YrCancer	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1222	ALL	486120.6	3617900	1.78E-06	12YrCancer	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1223	ALL	486170.6	3617900	1.75E-06	12YrCancer	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1224	ALL	486470.6	3617900	1.30E-06	12YrCancer	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1225	ALL	486520.6	3617900	1.20E-06	12YrCancer	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1226	ALL	486570.6	3617900	1.01E-06	12YrCancer	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1227	ALL	486620.6	3617900	9.47E-07	12YrCancer	9.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1228	ALL	486670.6	3617900	8.20E-07	12YrCancer	8.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1229	ALL	486720.6	3617900	7.63E-07	12YrCancer	7.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1230	ALL	486770.6	3617900	7.97E-07	12YrCancer	7.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1231	ALL	486820.6	3617900	8.33E-07	12YrCancer	8.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1232	ALL	486870.6	3617900	9.33E-07	12YrCancer	9.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1233	ALL	486920.6	3617900	9.08E-07	12YrCancer	9.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1234	ALL	486970.6	3617900	8.02E-07	12YrCancer	8.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1235	ALL	487020.6	3617900	6.37E-07	12YrCancer	6.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1236	ALL	487070.6	3617900	6.21E-07	12YrCancer	6.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1237	ALL	487120.6	3617900	6.16E-07	12YrCancer	6.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1238	ALL	487170.6	3617900	6.66E-07	12YrCancer	6.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1239	ALL	487220.6	3617900	6.56E-07	12YrCancer	6.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1240	ALL	487270.6	3617900	7.16E-07	12YrCancer	7.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1241	ALL	487320.6	3617900	7.01E-07	12YrCancer	7.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1242	ALL	487370.6	3617900	6.96E-07	12YrCancer	6.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1243	ALL	487420.6	3617900	6.70E-07	12YrCancer	6.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1244	ALL	487470.6	3617900	6.79E-07	12YrCancer	6.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1245	ALL	487520.6	3617900	6.85E-07	12YrCancer	6.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1246	ALL	487570.6	3617900	6.88E-07	12YrCancer	6.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1247	ALL	487620.6	3617900	6.89E-07	12YrCancer	6.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1248	ALL	487670.6	3617900	6.85E-07	12YrCancer	6.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1249	ALL	487720.6	3617900	6.80E-07	12YrCancer	6.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1250	ALL	487770.6	3617900	6.85E-07	12YrCancer	6.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1251	ALL	487820.6	3617900	7.34E-07	12YrCancer	7.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1252	ALL	487870.6	3617900	8.60E-07	12YrCancer	8.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1253	ALL	487920.6	3617900	1.08E-06	12YrCancer	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1254	ALL	487970.6	3617900	1.34E-06	12YrCancer	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1255	ALL	488020.6	3617900	1.48E-06	12YrCancer	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1256	ALL	488070.6	3617900	1.94E-06	12YrCancer	1.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1257	ALL	488120.6	3617900	2.16E-06	12YrCancer	2.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1258	ALL	488170.6	3617900	2.12E-06	12YrCancer	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1259	ALL	488220.6	3617900	1.94E-06	12YrCancer	1.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1260	ALL	488270.6	3617900	1.95E-06	12YrCancer	1.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1261	ALL	488320.6	3617900	1.89E-06	12YrCancer	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1262	ALL	488370.6	3617900	2.63E-06	12YrCancer	2.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1263	ALL	488420.6	3617900	2.58E-06	12YrCancer	2.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1264	ALL	488470.6	3617900	2.53E-06	12YrCancer	2.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1265	ALL	488520.6	3617900	2.44E-06	12YrCancer	2.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1266	ALL	488570.6	3617900	2.36E-06	12YrCancer	2.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1267	ALL	488620.6	3617900	2.27E-06	12YrCancer	2.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1268	ALL	485870.6	3617950	1.84E-06	12YrCancer	1.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1269	ALL	485920.6	3617950	1.89E-06	12YrCancer	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1270	ALL	485970.6	3617950	1.80E-06	12YrCancer	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1271	ALL	486020.6	3617950	1.78E-06	12YrCancer	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1272	ALL	486070.6	3617950	1.67E-06	12YrCancer	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1273	ALL	487077.5	3618005	5.19E-07	12YrCancer	5.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1274	ALL	487127.5	3618005	5.10E-07	12YrCancer	5.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1275	ALL	487177.5	3618005	5.27E-07	12YrCancer	5.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1276	ALL	487227.5	3618005	5.42E-07	12YrCancer	5.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1277	ALL	487277.5	3618005	5.55E-07	12YrCancer	5.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1278	ALL	487327.5	3618005	5.54E-07	12YrCancer	5.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1279	ALL	486470.6	3617950	1.21E-06	12YrCancer	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1280	ALL	486520.6	3617950	1.05E-06	12YrCancer	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1281	ALL	486570.6	3617950	8.93E-07	12YrCancer	8.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1282	ALL	486620.6	3617950	8.34E-07	12YrCancer	8.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1283	ALL	486670.6	3617950	7.29E-07	12YrCancer	7.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1284	ALL	486720.6	3617950	6.96E-07	12YrCancer	6.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1285	ALL	486770.6	3617950	7.07E-07	12YrCancer	7.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1286	ALL	486820.6	3617950	8.82E-07	12YrCancer	8.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1287	ALL	486870.6	3617950	7.73E-07	12YrCancer	7.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1288	ALL	486920.6	3617950	6.97E-07	12YrCancer	6.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1289	ALL	486970.6	3617950	5.37E-07	12YrCancer	5.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1290	ALL	487020.6	3617950	5.55E-07	12YrCancer	5.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1291	ALL	487070.6	3617950	5.76E-07	12YrCancer	5.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1292	ALL	487120.6	3617950	5.59E-07	12YrCancer	5.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1293	ALL	487170.6	3617950	5.78E-07	12YrCancer	5.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1294	ALL	487220.6	3617950	5.95E-07	12YrCancer	5.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1295	ALL	487270.6	3617950	6.10E-07	12YrCancer	6.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1296	ALL	487320.6	3617950	6.24E-07	12YrCancer	6.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1297	ALL	487370.6	3617950	6.29E-07	12YrCancer	6.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1298	ALL	487420.6	3617950	6.07E-07	12YrCancer	6.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1299	ALL	487470.6	3617950	6.15E-07	12YrCancer	6.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1300	ALL	487520.6	3617950	6.22E-07	12YrCancer	6.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1301	ALL	487570.6	3617950	6.25E-07	12YrCancer	6.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1302	ALL	487620.6	3617950	6.27E-07	12YrCancer	6.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1303	ALL	487670.6	3617950	6.23E-07	12YrCancer	6.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1304	ALL	487720.6	3617950	6.18E-07	12YrCancer	6.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1305	ALL	487770.6	3617950	6.48E-07	12YrCancer	6.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1306	ALL	487820.6	3617950	6.81E-07	12YrCancer	6.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1307	ALL	487870.6	3617950	8.30E-07	12YrCancer	8.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1308	ALL	487920.6	3617950	1.19E-06	12YrCancer	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1309	ALL	487970.6	3617950	1.43E-06	12YrCancer	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1310	ALL	488020.6	3617950	1.65E-06	12YrCancer	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1311	ALL	488070.6	3617950	1.91E-06	12YrCancer	1.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1312	ALL	488120.6	3617950	1.99E-06	12YrCancer	1.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1313	ALL	488170.6	3617950	1.56E-06	12YrCancer	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1314	ALL	488220.6	3617950	1.32E-06	12YrCancer	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1315	ALL	488270.6	3617950	1.54E-06	12YrCancer	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1316	ALL	488320.6	3617950	2.00E-06	12YrCancer	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1317	ALL	488370.6	3617950	2.54E-06	12YrCancer	2.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1318	ALL	488420.6	3617950	2.52E-06	12YrCancer	2.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1319	ALL	488470.6	3617950	2.44E-06	12YrCancer	2.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1320	ALL	488520.6	3617950	2.39E-06	12YrCancer	2.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1321	ALL	488570.6	3617950	2.31E-06	12YrCancer	2.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1322	ALL	488620.6	3617950	2.23E-06	12YrCancer	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1323	ALL	487840.1	3615798	4.41E-06	12YrCancer	4.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1324	ALL	487890.1	3615798	4.24E-06	12YrCancer	4.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1325	ALL	487940.1	3615798	4.07E-06	12YrCancer	4.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1326	ALL	487990.1	3615798	3.91E-06	12YrCancer	3.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1327	ALL	488240.1	3615798	3.17E-06	12YrCancer	3.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1328	ALL	488290.1	3615798	3.05E-06	12YrCancer	3.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1329	ALL	488340.1	3615798	2.93E-06	12YrCancer	2.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1330	ALL	488390.1	3615798	2.82E-06	12YrCancer	2.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1331	ALL	488440.1	3615798	2.70E-06	12YrCancer	2.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1332	ALL	488490.1	3615798	2.60E-06	12YrCancer	2.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1333	ALL	488540.1	3615798	2.50E-06	12YrCancer	2.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1334	ALL	488590.1	3615798	2.41E-06	12YrCancer	2.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1335	ALL	487940.1	3615848	4.27E-06	12YrCancer	4.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1336	ALL	487990.1	3615848	4.09E-06	12YrCancer	4.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1337	ALL	488040.1	3615848	3.92E-06	12YrCancer	3.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1338	ALL	488190.1	3615848	3.44E-06	12YrCancer	3.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1339	ALL	488240.1	3615848	3.30E-06	12YrCancer	3.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1340	ALL	488290.1	3615848	3.16E-06	12YrCancer	3.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1341	ALL	488340.1	3615848	3.03E-06	12YrCancer	3.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1342	ALL	488390.1	3615848	2.91E-06	12YrCancer	2.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1343	ALL	488440.1	3615848	2.78E-06	12YrCancer	2.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1344	ALL	488490.1	3615848	2.68E-06	12YrCancer	2.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1345	ALL	488540.1	3615848	2.57E-06	12YrCancer	2.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1346	ALL	488590.1	3615848	2.48E-06	12YrCancer	2.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1347	ALL	487740.1	3615898	5.40E-06	12YrCancer	5.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1348	ALL	487990.1	3615898	4.29E-06	12YrCancer	4.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1349	ALL	488040.1	3615898	4.09E-06	12YrCancer	4.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1350	ALL	488090.1	3615898	3.92E-06	12YrCancer	3.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1351	ALL	488140.1	3615898	3.75E-06	12YrCancer	3.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1352	ALL	488190.1	3615898	3.58E-06	12YrCancer	3.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1353	ALL	488240.1	3615898	3.43E-06	12YrCancer	3.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1354	ALL	488290.1	3615898	3.27E-06	12YrCancer	3.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1355	ALL	488340.1	3615898	3.14E-06	12YrCancer	3.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1356	ALL	488390.1	3615898	3.00E-06	12YrCancer	3.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1357	ALL	488440.1	3615898	2.87E-06	12YrCancer	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1358	ALL	488490.1	3615898	2.76E-06	12YrCancer	2.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1359	ALL	488540.1	3615898	2.65E-06	12YrCancer	2.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1360	ALL	488590.1	3615898	2.55E-06	12YrCancer	2.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1361	ALL	487690.1	3615948	6.01E-06	12YrCancer	6.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1362	ALL	487740.1	3615948	5.76E-06	12YrCancer	5.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1363	ALL	487790.1	3615948	5.49E-06	12YrCancer	5.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1364	ALL	488090.1	3615948	4.09E-06	12YrCancer	4.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1365	ALL	488140.1	3615948	3.90E-06	12YrCancer	3.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1366	ALL	488190.1	3615948	3.73E-06	12YrCancer	3.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1367	ALL	488240.1	3615948	3.52E-06	12YrCancer	3.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1368	ALL	488290.1	3615948	3.37E-06	12YrCancer	3.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1369	ALL	488340.1	3615948	3.23E-06	12YrCancer	3.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1370	ALL	488390.1	3615948	3.09E-06	12YrCancer	3.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1371	ALL	488440.1	3615948	2.96E-06	12YrCancer	2.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1372	ALL	488490.1	3615948	2.84E-06	12YrCancer	2.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1373	ALL	488540.1	3615948	2.73E-06	12YrCancer	2.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1374	ALL	488590.1	3615948	2.62E-06	12YrCancer	2.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1375	ALL	487690.1	3615998	6.44E-06	12YrCancer	6.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1376	ALL	487740.1	3615998	6.12E-06	12YrCancer	6.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1377	ALL	487790.1	3615998	5.82E-06	12YrCancer	5.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1378	ALL	487840.1	3615998	5.53E-06	12YrCancer	5.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1379	ALL	487890.1	3615998	5.25E-06	12YrCancer	5.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1380	ALL	488090.1	3615998	4.28E-06	12YrCancer	4.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1381	ALL	488140.1	3615998	4.07E-06	12YrCancer	4.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1382	ALL	488190.1	3615998	3.65E-06	12YrCancer	3.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1383	ALL	488240.1	3615998	3.31E-06	12YrCancer	3.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1384	ALL	488290.1	3615998	3.33E-06	12YrCancer	3.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1385	ALL	488340.1	3615998	3.34E-06	12YrCancer	3.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1386	ALL	488390.1	3615998	3.19E-06	12YrCancer	3.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1387	ALL	488440.1	3615998	3.06E-06	12YrCancer	3.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1388	ALL	488490.1	3615998	2.93E-06	12YrCancer	2.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1389	ALL	488540.1	3615998	2.81E-06	12YrCancer	2.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1390	ALL	488590.1	3615998	2.69E-06	12YrCancer	2.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1391	ALL	487540.1	3616048	8.06E-06	12YrCancer	8.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1392	ALL	487790.1	3616048	6.18E-06	12YrCancer	6.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1393	ALL	487840.1	3616048	5.85E-06	12YrCancer	5.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1394	ALL	487890.1	3616048	5.55E-06	12YrCancer	5.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1395	ALL	487940.1	3616048	5.25E-06	12YrCancer	5.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1396	ALL	488090.1	3616048	4.47E-06	12YrCancer	4.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1397	ALL	488140.1	3616048	4.21E-06	12YrCancer	4.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1398	ALL	488190.1	3616048	3.71E-06	12YrCancer	3.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1399	ALL	488240.1	3616048	3.42E-06	12YrCancer	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1400	ALL	488290.1	3616048	3.47E-06	12YrCancer	3.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1401	ALL	488340.1	3616048	3.45E-06	12YrCancer	3.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1402	ALL	488390.1	3616048	3.30E-06	12YrCancer	3.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1403	ALL	488440.1	3616048	3.15E-06	12YrCancer	3.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1404	ALL	488490.1	3616048	3.01E-06	12YrCancer	3.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1405	ALL	488540.1	3616048	2.88E-06	12YrCancer	2.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1406	ALL	488590.1	3616048	2.76E-06	12YrCancer	2.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1407	ALL	487540.1	3616098	8.80E-06	12YrCancer	8.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1408	ALL	487590.1	3616098	8.29E-06	12YrCancer	8.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1409	ALL	487640.1	3616098	7.90E-06	12YrCancer	7.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1410	ALL	487890.1	3616098	5.84E-06	12YrCancer	5.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1411	ALL	487940.1	3616098	5.53E-06	12YrCancer	5.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1412	ALL	487990.1	3616098	5.21E-06	12YrCancer	5.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1413	ALL	488040.1	3616098	4.91E-06	12YrCancer	4.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1414	ALL	488090.1	3616098	4.64E-06	12YrCancer	4.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1415	ALL	488140.1	3616098	4.17E-06	12YrCancer	4.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1416	ALL	488190.1	3616098	3.85E-06	12YrCancer	3.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1417	ALL	488240.1	3616098	3.69E-06	12YrCancer	3.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1418	ALL	488290.1	3616098	3.62E-06	12YrCancer	3.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1419	ALL	488340.1	3616098	3.57E-06	12YrCancer	3.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1420	ALL	488390.1	3616098	3.40E-06	12YrCancer	3.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1421	ALL	488440.1	3616098	3.24E-06	12YrCancer	3.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1422	ALL	488490.1	3616098	3.10E-06	12YrCancer	3.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1423	ALL	488540.1	3616098	2.93E-06	12YrCancer	2.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1424	ALL	488590.1	3616098	2.78E-06	12YrCancer	2.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1425	ALL	487540.1	3616148	9.64E-06	12YrCancer	9.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1426	ALL	487590.1	3616148	9.09E-06	12YrCancer	9.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1427	ALL	487640.1	3616148	8.51E-06	12YrCancer	8.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1428	ALL	487690.1	3616148	8.02E-06	12YrCancer	8.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1429	ALL	487940.1	3616148	5.80E-06	12YrCancer	5.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1430	ALL	487990.1	3616148	5.48E-06	12YrCancer	5.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1431	ALL	488040.1	3616148	5.14E-06	12YrCancer	5.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1432	ALL	488090.1	3616148	4.82E-06	12YrCancer	4.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1433	ALL	488140.1	3616148	4.37E-06	12YrCancer	4.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1434	ALL	488190.1	3616148	4.03E-06	12YrCancer	4.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1435	ALL	488240.1	3616148	3.85E-06	12YrCancer	3.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1436	ALL	488290.1	3616148	3.77E-06	12YrCancer	3.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1437	ALL	488340.1	3616148	3.68E-06	12YrCancer	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1438	ALL	488390.1	3616148	3.50E-06	12YrCancer	3.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1439	ALL	488440.1	3616148	3.34E-06	12YrCancer	3.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1440	ALL	488490.1	3616148	3.15E-06	12YrCancer	3.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1441	ALL	488540.1	3616148	2.98E-06	12YrCancer	2.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1442	ALL	488590.1	3616148	2.85E-06	12YrCancer	2.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1443	ALL	487590.1	3616198	9.90E-06	12YrCancer	9.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1444	ALL	487640.1	3616198	9.23E-06	12YrCancer	9.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1445	ALL	487690.1	3616198	8.66E-06	12YrCancer	8.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1446	ALL	487740.1	3616198	8.03E-06	12YrCancer	8.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1447	ALL	487990.1	3616198	5.76E-06	12YrCancer	5.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1448	ALL	488040.1	3616198	5.36E-06	12YrCancer	5.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1449	ALL	488090.1	3616198	5.03E-06	12YrCancer	5.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1450	ALL	488140.1	3616198	4.58E-06	12YrCancer	4.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1451	ALL	488190.1	3616198	4.22E-06	12YrCancer	4.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1452	ALL	488240.1	3616198	4.02E-06	12YrCancer	4.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1453	ALL	488290.1	3616198	3.91E-06	12YrCancer	3.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1454	ALL	488340.1	3616198	3.80E-06	12YrCancer	3.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1455	ALL	488390.1	3616198	3.60E-06	12YrCancer	3.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1456	ALL	488440.1	3616198	3.40E-06	12YrCancer	3.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1457	ALL	488490.1	3616198	3.20E-06	12YrCancer	3.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1458	ALL	488540.1	3616198	3.06E-06	12YrCancer	3.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1459	ALL	488590.1	3616198	2.92E-06	12YrCancer	2.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1460	ALL	487690.1	3616248	9.30E-06	12YrCancer	9.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1461	ALL	487740.1	3616248	8.67E-06	12YrCancer	8.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1462	ALL	487790.1	3616248	7.97E-06	12YrCancer	7.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1463	ALL	487840.1	3616248	7.43E-06	12YrCancer	7.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1464	ALL	487940.1	3616248	6.46E-06	12YrCancer	6.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1465	ALL	487990.1	3616248	5.98E-06	12YrCancer	5.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1466	ALL	488040.1	3616248	5.59E-06	12YrCancer	5.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1467	ALL	488090.1	3616248	5.24E-06	12YrCancer	5.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1468	ALL	488140.1	3616248	4.78E-06	12YrCancer	4.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1469	ALL	488190.1	3616248	4.40E-06	12YrCancer	4.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1470	ALL	488240.1	3616248	4.17E-06	12YrCancer	4.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1471	ALL	488290.1	3616248	4.04E-06	12YrCancer	4.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1472	ALL	488340.1	3616248	3.91E-06	12YrCancer	3.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1473	ALL	488390.1	3616248	3.70E-06	12YrCancer	3.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1474	ALL	488440.1	3616248	3.45E-06	12YrCancer	3.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1475	ALL	488490.1	3616248	3.28E-06	12YrCancer	3.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1476	ALL	488540.1	3616248	3.12E-06	12YrCancer	3.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1477	ALL	488590.1	3616248	2.98E-06	12YrCancer	2.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1478	ALL	487690.1	3616298	1.01E-05	12YrCancer	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1479	ALL	487740.1	3616298	9.25E-06	12YrCancer	9.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1480	ALL	487790.1	3616298	8.48E-06	12YrCancer	8.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1481	ALL	487840.1	3616298	7.85E-06	12YrCancer	7.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1482	ALL	487890.1	3616298	7.31E-06	12YrCancer	7.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1483	ALL	487940.1	3616298	6.76E-06	12YrCancer	6.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1484	ALL	487990.1	3616298	6.26E-06	12YrCancer	6.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1485	ALL	488040.1	3616298	5.83E-06	12YrCancer	5.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1486	ALL	488090.1	3616298	5.45E-06	12YrCancer	5.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1487	ALL	488140.1	3616298	4.98E-06	12YrCancer	4.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1488	ALL	488190.1	3616298	4.57E-06	12YrCancer	4.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1489	ALL	488240.1	3616298	4.32E-06	12YrCancer	4.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1490	ALL	488290.1	3616298	4.17E-06	12YrCancer	4.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1491	ALL	488340.1	3616298	4.01E-06	12YrCancer	4.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1492	ALL	488390.1	3616298	3.74E-06	12YrCancer	3.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1493	ALL	488440.1	3616298	3.53E-06	12YrCancer	3.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1494	ALL	488490.1	3616298	3.35E-06	12YrCancer	3.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1495	ALL	488540.1	3616298	3.18E-06	12YrCancer	3.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1496	ALL	488590.1	3616298	3.03E-06	12YrCancer	3.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1497	ALL	487690.1	3616348	1.09E-05	12YrCancer	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1498	ALL	487740.1	3616348	9.88E-06	12YrCancer	9.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1499	ALL	487790.1	3616348	9.04E-06	12YrCancer	9.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1500	ALL	487840.1	3616348	8.29E-06	12YrCancer	8.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1501	ALL	487890.1	3616348	7.64E-06	12YrCancer	7.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1502	ALL	487940.1	3616348	7.05E-06	12YrCancer	7.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1503	ALL	487990.1	3616348	6.53E-06	12YrCancer	6.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1504	ALL	488040.1	3616348	6.07E-06	12YrCancer	6.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1505	ALL	488090.1	3616348	5.65E-06	12YrCancer	5.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1506	ALL	488140.1	3616348	5.16E-06	12YrCancer	5.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1507	ALL	488190.1	3616348	4.72E-06	12YrCancer	4.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1508	ALL	488240.1	3616348	4.44E-06	12YrCancer	4.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1509	ALL	488290.1	3616348	4.27E-06	12YrCancer	4.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1510	ALL	488340.1	3616348	4.03E-06	12YrCancer	4.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1511	ALL	488390.1	3616348	3.80E-06	12YrCancer	3.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1512	ALL	488440.1	3616348	3.60E-06	12YrCancer	3.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1513	ALL	488490.1	3616348	3.41E-06	12YrCancer	3.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1514	ALL	488540.1	3616348	3.23E-06	12YrCancer	3.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1515	ALL	488590.1	3616348	3.07E-06	12YrCancer	3.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1516	ALL	487640.1	3616398	1.31E-05	12YrCancer	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1517	ALL	487690.1	3616398	1.17E-05	12YrCancer	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1518	ALL	487740.1	3616398	1.06E-05	12YrCancer	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1519	ALL	487790.1	3616398	9.60E-06	12YrCancer	9.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1520	ALL	487840.1	3616398	8.76E-06	12YrCancer	8.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1521	ALL	487890.1	3616398	8.02E-06	12YrCancer	8.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1522	ALL	487940.1	3616398	7.37E-06	12YrCancer	7.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1523	ALL	487990.1	3616398	6.80E-06	12YrCancer	6.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1524	ALL	488040.1	3616398	6.29E-06	12YrCancer	6.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1525	ALL	488090.1	3616398	5.84E-06	12YrCancer	5.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1526	ALL	488140.1	3616398	5.31E-06	12YrCancer	5.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1527	ALL	488190.1	3616398	4.84E-06	12YrCancer	4.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1528	ALL	488240.1	3616398	4.55E-06	12YrCancer	4.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1529	ALL	488290.1	3616398	4.36E-06	12YrCancer	4.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1530	ALL	488340.1	3616398	4.10E-06	12YrCancer	4.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1531	ALL	488390.1	3616398	3.87E-06	12YrCancer	3.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1532	ALL	488440.1	3616398	3.65E-06	12YrCancer	3.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1533	ALL	488490.1	3616398	3.45E-06	12YrCancer	3.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1534	ALL	488540.1	3616398	3.27E-06	12YrCancer	3.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1535	ALL	488590.1	3616398	3.11E-06	12YrCancer	3.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1536	ALL	487590.1	3616448	1.61E-05	12YrCancer	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1537	ALL	487640.1	3616448	1.42E-05	12YrCancer	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1538	ALL	487690.1	3616448	1.26E-05	12YrCancer	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1539	ALL	487740.1	3616448	1.13E-05	12YrCancer	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1540	ALL	487790.1	3616448	1.02E-05	12YrCancer	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1541	ALL	487840.1	3616448	9.20E-06	12YrCancer	9.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1542	ALL	487890.1	3616448	8.38E-06	12YrCancer	8.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1543	ALL	487940.1	3616448	7.66E-06	12YrCancer	7.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1544	ALL	487990.1	3616448	7.04E-06	12YrCancer	7.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1545	ALL	488040.1	3616448	6.48E-06	12YrCancer	6.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1546	ALL	488090.1	3616448	6.00E-06	12YrCancer	6.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1547	ALL	488140.1	3616448	5.44E-06	12YrCancer	5.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1548	ALL	488190.1	3616448	4.95E-06	12YrCancer	4.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1549	ALL	488240.1	3616448	4.50E-06	12YrCancer	4.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1550	ALL	488290.1	3616448	4.33E-06	12YrCancer	4.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1551	ALL	488340.1	3616448	4.06E-06	12YrCancer	4.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1552	ALL	488390.1	3616448	3.91E-06	12YrCancer	3.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1553	ALL	488440.1	3616448	3.69E-06	12YrCancer	3.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1554	ALL	488490.1	3616448	3.49E-06	12YrCancer	3.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1555	ALL	488540.1	3616448	3.30E-06	12YrCancer	3.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1556	ALL	488590.1	3616448	3.06E-06	12YrCancer	3.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1557	ALL	487540.1	3616498	2.01E-05	12YrCancer	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1558	ALL	487590.1	3616498	1.77E-05	12YrCancer	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1559	ALL	487640.1	3616498	1.53E-05	12YrCancer	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1560	ALL	487690.1	3616498	1.35E-05	12YrCancer	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1561	ALL	487740.1	3616498	1.19E-05	12YrCancer	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1562	ALL	487790.1	3616498	1.07E-05	12YrCancer	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1563	ALL	487840.1	3616498	9.61E-06	12YrCancer	9.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1564	ALL	487890.1	3616498	8.70E-06	12YrCancer	8.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1565	ALL	487940.1	3616498	7.92E-06	12YrCancer	7.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1566	ALL	487990.1	3616498	7.24E-06	12YrCancer	7.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1567	ALL	488040.1	3616498	6.65E-06	12YrCancer	6.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1568	ALL	488090.1	3616498	6.04E-06	12YrCancer	6.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1569	ALL	488140.1	3616498	5.53E-06	12YrCancer	5.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1570	ALL	488190.1	3616498	4.91E-06	12YrCancer	4.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1571	ALL	488240.1	3616498	4.63E-06	12YrCancer	4.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1572	ALL	488290.1	3616498	4.39E-06	12YrCancer	4.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1573	ALL	488340.1	3616498	4.06E-06	12YrCancer	4.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1574	ALL	488390.1	3616498	3.82E-06	12YrCancer	3.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1575	ALL	488440.1	3616498	3.67E-06	12YrCancer	3.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1576	ALL	488490.1	3616498	3.42E-06	12YrCancer	3.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1577	ALL	488540.1	3616498	3.22E-06	12YrCancer	3.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1578	ALL	488590.1	3616498	3.05E-06	12YrCancer	3.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1579	ALL	484613	3614430	8.35E-07	12YrCancer	8.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1580	ALL	484663	3614430	8.49E-07	12YrCancer	8.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1581	ALL	484713	3614430	8.64E-07	12YrCancer	8.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1582	ALL	484763	3614430	8.80E-07	12YrCancer	8.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1583	ALL	484813	3614430	8.95E-07	12YrCancer	8.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1584	ALL	484863	3614430	9.12E-07	12YrCancer	9.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1585	ALL	484913	3614430	9.32E-07	12YrCancer	9.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1586	ALL	484963	3614430	9.49E-07	12YrCancer	9.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1587	ALL	484563	3614480	8.33E-07	12YrCancer	8.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1588	ALL	484613	3614480	8.47E-07	12YrCancer	8.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1589	ALL	484663	3614480	8.63E-07	12YrCancer	8.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1590	ALL	484713	3614480	8.78E-07	12YrCancer	8.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1591	ALL	484763	3614480	8.94E-07	12YrCancer	8.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1592	ALL	484813	3614480	9.11E-07	12YrCancer	9.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1593	ALL	484863	3614480	9.27E-07	12YrCancer	9.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1594	ALL	484913	3614480	9.49E-07	12YrCancer	9.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1595	ALL	484963	3614480	9.65E-07	12YrCancer	9.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1596	ALL	484513	3614530	8.30E-07	12YrCancer	8.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1597	ALL	484563	3614530	8.45E-07	12YrCancer	8.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1598	ALL	484613	3614530	8.60E-07	12YrCancer	8.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1599	ALL	484663	3614530	8.76E-07	12YrCancer	8.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1600	ALL	484713	3614530	8.92E-07	12YrCancer	8.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1601	ALL	484763	3614530	9.09E-07	12YrCancer	9.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1602	ALL	484813	3614530	9.26E-07	12YrCancer	9.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1603	ALL	484863	3614530	9.43E-07	12YrCancer	9.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1604	ALL	484913	3614530	9.65E-07	12YrCancer	9.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1605	ALL	484963	3614530	9.83E-07	12YrCancer	9.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1606	ALL	484463	3614580	8.28E-07	12YrCancer	8.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1607	ALL	484513	3614580	8.42E-07	12YrCancer	8.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1608	ALL	484563	3614580	8.58E-07	12YrCancer	8.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1609	ALL	484613	3614580	8.74E-07	12YrCancer	8.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1610	ALL	484663	3614580	8.90E-07	12YrCancer	8.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1611	ALL	484713	3614580	9.07E-07	12YrCancer	9.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1612	ALL	484763	3614580	9.24E-07	12YrCancer	9.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1613	ALL	484813	3614580	9.42E-07	12YrCancer	9.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1614	ALL	484863	3614580	9.60E-07	12YrCancer	9.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1615	ALL	484913	3614580	9.81E-07	12YrCancer	9.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1616	ALL	484963	3614580	1.00E-06	12YrCancer	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1617	ALL	484413	3614630	8.24E-07	12YrCancer	8.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1618	ALL	484463	3614630	8.39E-07	12YrCancer	8.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1619	ALL	484513	3614630	8.55E-07	12YrCancer	8.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1620	ALL	484563	3614630	8.71E-07	12YrCancer	8.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1621	ALL	484613	3614630	8.87E-07	12YrCancer	8.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1622	ALL	484663	3614630	9.04E-07	12YrCancer	9.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1623	ALL	484713	3614630	9.22E-07	12YrCancer	9.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1624	ALL	484763	3614630	9.39E-07	12YrCancer	9.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1625	ALL	484813	3614630	9.58E-07	12YrCancer	9.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1626	ALL	484863	3614630	9.76E-07	12YrCancer	9.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1627	ALL	484913	3614630	9.97E-07	12YrCancer	9.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1628	ALL	484963	3614630	1.02E-06	12YrCancer	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1629	ALL	484413	3614680	8.35E-07	12YrCancer	8.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1630	ALL	484463	3614680	8.51E-07	12YrCancer	8.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1631	ALL	484513	3614680	8.67E-07	12YrCancer	8.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1632	ALL	484563	3614680	8.84E-07	12YrCancer	8.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1633	ALL	484613	3614680	9.01E-07	12YrCancer	9.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1634	ALL	484663	3614680	9.19E-07	12YrCancer	9.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1635	ALL	484713	3614680	9.37E-07	12YrCancer	9.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1636	ALL	484763	3614680	9.55E-07	12YrCancer	9.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1637	ALL	484813	3614680	9.74E-07	12YrCancer	9.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1638	ALL	484863	3614680	9.93E-07	12YrCancer	9.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1639	ALL	484913	3614680	1.01E-06	12YrCancer	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1640	ALL	484963	3614680	1.04E-06	12YrCancer	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1641	ALL	484363	3614730	8.31E-07	12YrCancer	8.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1642	ALL	484413	3614730	8.47E-07	12YrCancer	8.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1643	ALL	484463	3614730	8.63E-07	12YrCancer	8.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1644	ALL	484513	3614730	8.80E-07	12YrCancer	8.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1645	ALL	484563	3614730	8.97E-07	12YrCancer	8.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1646	ALL	484613	3614730	9.15E-07	12YrCancer	9.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1647	ALL	484663	3614730	9.33E-07	12YrCancer	9.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1648	ALL	484713	3614730	9.52E-07	12YrCancer	9.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1649	ALL	484763	3614730	9.71E-07	12YrCancer	9.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1650	ALL	484813	3614730	9.90E-07	12YrCancer	9.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1651	ALL	484863	3614730	1.01E-06	12YrCancer	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1652	ALL	484913	3614730	1.03E-06	12YrCancer	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1653	ALL	484963	3614730	1.06E-06	12YrCancer	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1654	ALL	484313	3614780	8.26E-07	12YrCancer	8.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1655	ALL	484363	3614780	8.42E-07	12YrCancer	8.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1656	ALL	484413	3614780	8.59E-07	12YrCancer	8.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1657	ALL	484463	3614780	8.76E-07	12YrCancer	8.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1658	ALL	484513	3614780	8.93E-07	12YrCancer	8.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1659	ALL	484563	3614780	9.11E-07	12YrCancer	9.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1660	ALL	484613	3614780	9.29E-07	12YrCancer	9.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1661	ALL	484663	3614780	9.48E-07	12YrCancer	9.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1662	ALL	484713	3614780	9.67E-07	12YrCancer	9.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1663	ALL	484763	3614780	9.87E-07	12YrCancer	9.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1664	ALL	484813	3614780	1.01E-06	12YrCancer	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1665	ALL	484863	3614780	1.03E-06	12YrCancer	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1666	ALL	484913	3614780	1.05E-06	12YrCancer	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1667	ALL	484963	3614780	1.07E-06	12YrCancer	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1668	ALL	484263	3614830	8.21E-07	12YrCancer	8.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1669	ALL	484313	3614830	8.37E-07	12YrCancer	8.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1670	ALL	484363	3614830	8.53E-07	12YrCancer	8.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1671	ALL	484413	3614830	8.70E-07	12YrCancer	8.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1672	ALL	484463	3614830	8.88E-07	12YrCancer	8.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1673	ALL	484513	3614830	9.06E-07	12YrCancer	9.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1674	ALL	484563	3614830	9.24E-07	12YrCancer	9.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1675	ALL	484613	3614830	9.43E-07	12YrCancer	9.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1676	ALL	484663	3614830	9.63E-07	12YrCancer	9.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1677	ALL	484713	3614830	9.82E-07	12YrCancer	9.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1678	ALL	484763	3614830	1.00E-06	12YrCancer	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1679	ALL	484813	3614830	1.02E-06	12YrCancer	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1680	ALL	484863	3614830	1.05E-06	12YrCancer	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1681	ALL	484913	3614830	1.07E-06	12YrCancer	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1682	ALL	484963	3614830	1.10E-06	12YrCancer	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1683	ALL	484213	3614880	8.15E-07	12YrCancer	8.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1684	ALL	484263	3614880	8.31E-07	12YrCancer	8.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1685	ALL	484313	3614880	8.48E-07	12YrCancer	8.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1686	ALL	484363	3614880	8.65E-07	12YrCancer	8.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1687	ALL	484413	3614880	8.82E-07	12YrCancer	8.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1688	ALL	484463	3614880	9.00E-07	12YrCancer	9.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1689	ALL	484513	3614880	9.19E-07	12YrCancer	9.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1690	ALL	484563	3614880	9.38E-07	12YrCancer	9.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1691	ALL	484613	3614880	9.57E-07	12YrCancer	9.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1692	ALL	484663	3614880	9.77E-07	12YrCancer	9.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1693	ALL	484713	3614880	9.98E-07	12YrCancer	9.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1694	ALL	484763	3614880	1.02E-06	12YrCancer	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1695	ALL	484813	3614880	1.04E-06	12YrCancer	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1696	ALL	484863	3614880	1.06E-06	12YrCancer	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1697	ALL	484913	3614880	1.09E-06	12YrCancer	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1698	ALL	484963	3614880	1.11E-06	12YrCancer	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1699	ALL	484163	3614930	8.10E-07	12YrCancer	8.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1700	ALL	484213	3614930	8.25E-07	12YrCancer	8.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1701	ALL	484263	3614930	8.42E-07	12YrCancer	8.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1702	ALL	484313	3614930	8.59E-07	12YrCancer	8.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1703	ALL	484363	3614930	8.76E-07	12YrCancer	8.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1704	ALL	484413	3614930	8.94E-07	12YrCancer	8.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1705	ALL	484463	3614930	9.13E-07	12YrCancer	9.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1706	ALL	484513	3614930	9.32E-07	12YrCancer	9.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1707	ALL	484563	3614930	9.52E-07	12YrCancer	9.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1708	ALL	484613	3614930	9.72E-07	12YrCancer	9.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1709	ALL	484663	3614930	9.93E-07	12YrCancer	9.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1710	ALL	484713	3614930	1.01E-06	12YrCancer	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1711	ALL	484763	3614930	1.04E-06	12YrCancer	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1712	ALL	484813	3614930	1.06E-06	12YrCancer	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1713	ALL	484863	3614930	1.08E-06	12YrCancer	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1714	ALL	484913	3614930	1.11E-06	12YrCancer	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1715	ALL	484963	3614930	1.13E-06	12YrCancer	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1716	ALL	485013	3614930	1.16E-06	12YrCancer	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1717	ALL	484113	3614980	8.03E-07	12YrCancer	8.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1718	ALL	484163	3614980	8.18E-07	12YrCancer	8.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1719	ALL	484213	3614980	8.35E-07	12YrCancer	8.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1720	ALL	484263	3614980	8.52E-07	12YrCancer	8.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1721	ALL	484313	3614980	8.70E-07	12YrCancer	8.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1722	ALL	484363	3614980	8.88E-07	12YrCancer	8.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1723	ALL	484413	3614980	9.06E-07	12YrCancer	9.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1724	ALL	484463	3614980	9.25E-07	12YrCancer	9.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1725	ALL	484513	3614980	9.45E-07	12YrCancer	9.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1726	ALL	484563	3614980	9.65E-07	12YrCancer	9.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1727	ALL	484613	3614980	9.86E-07	12YrCancer	9.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1728	ALL	484663	3614980	1.01E-06	12YrCancer	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1729	ALL	484713	3614980	1.03E-06	12YrCancer	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1730	ALL	484763	3614980	1.05E-06	12YrCancer	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1731	ALL	484813	3614980	1.08E-06	12YrCancer	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1732	ALL	484863	3614980	1.10E-06	12YrCancer	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1733	ALL	484913	3614980	1.12E-06	12YrCancer	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1734	ALL	484963	3614980	1.15E-06	12YrCancer	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1735	ALL	485013	3614980	1.18E-06	12YrCancer	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1736	ALL	484113	3615030	8.11E-07	12YrCancer	8.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1737	ALL	484163	3615030	8.28E-07	12YrCancer	8.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1738	ALL	484213	3615030	8.45E-07	12YrCancer	8.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1739	ALL	484263	3615030	8.63E-07	12YrCancer	8.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1740	ALL	484313	3615030	8.81E-07	12YrCancer	8.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1741	ALL	484363	3615030	8.99E-07	12YrCancer	8.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1742	ALL	484413	3615030	9.18E-07	12YrCancer	9.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1743	ALL	484463	3615030	9.38E-07	12YrCancer	9.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1744	ALL	484513	3615030	9.58E-07	12YrCancer	9.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1745	ALL	484563	3615030	9.79E-07	12YrCancer	9.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1746	ALL	484613	3615030	1.00E-06	12YrCancer	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1747	ALL	484663	3615030	1.02E-06	12YrCancer	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1748	ALL	484713	3615030	1.05E-06	12YrCancer	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1749	ALL	484763	3615030	1.07E-06	12YrCancer	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1750	ALL	484813	3615030	1.09E-06	12YrCancer	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1751	ALL	484863	3615030	1.12E-06	12YrCancer	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1752	ALL	484913	3615030	1.14E-06	12YrCancer	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1753	ALL	484963	3615030	1.17E-06	12YrCancer	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1754	ALL	485013	3615030	1.20E-06	12YrCancer	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1755	ALL	485063	3615030	1.23E-06	12YrCancer	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1756	ALL	484113	3615080	8.21E-07	12YrCancer	8.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1757	ALL	484163	3615080	8.38E-07	12YrCancer	8.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1758	ALL	484213	3615080	8.55E-07	12YrCancer	8.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1759	ALL	484263	3615080	8.73E-07	12YrCancer	8.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1760	ALL	484313	3615080	8.92E-07	12YrCancer	8.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1761	ALL	484363	3615080	9.11E-07	12YrCancer	9.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1762	ALL	484413	3615080	9.30E-07	12YrCancer	9.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1763	ALL	484463	3615080	9.51E-07	12YrCancer	9.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1764	ALL	484513	3615080	9.72E-07	12YrCancer	9.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1765	ALL	484563	3615080	9.93E-07	12YrCancer	9.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1766	ALL	484613	3615080	1.02E-06	12YrCancer	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1767	ALL	484663	3615080	1.04E-06	12YrCancer	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1768	ALL	484713	3615080	1.06E-06	12YrCancer	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1769	ALL	484763	3615080	1.09E-06	12YrCancer	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1770	ALL	484813	3615080	1.11E-06	12YrCancer	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1771	ALL	484863	3615080	1.14E-06	12YrCancer	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1772	ALL	484913	3615080	1.16E-06	12YrCancer	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1773	ALL	484963	3615080	1.19E-06	12YrCancer	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1774	ALL	485013	3615080	1.22E-06	12YrCancer	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1775	ALL	485063	3615080	1.25E-06	12YrCancer	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1776	ALL	485113	3615080	1.28E-06	12YrCancer	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1777	ALL	484113	3615130	8.30E-07	12YrCancer	8.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1778	ALL	484163	3615130	8.47E-07	12YrCancer	8.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1779	ALL	484213	3615130	8.65E-07	12YrCancer	8.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1780	ALL	484263	3615130	8.84E-07	12YrCancer	8.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1781	ALL	484313	3615130	9.03E-07	12YrCancer	9.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1782	ALL	484363	3615130	9.22E-07	12YrCancer	9.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1783	ALL	484413	3615130	9.43E-07	12YrCancer	9.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1784	ALL	484463	3615130	9.63E-07	12YrCancer	9.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1785	ALL	484513	3615130	9.85E-07	12YrCancer	9.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1786	ALL	484563	3615130	1.01E-06	12YrCancer	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1787	ALL	484613	3615130	1.03E-06	12YrCancer	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1788	ALL	484663	3615130	1.05E-06	12YrCancer	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1789	ALL	484713	3615130	1.08E-06	12YrCancer	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1790	ALL	484763	3615130	1.10E-06	12YrCancer	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1791	ALL	484813	3615130	1.13E-06	12YrCancer	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1792	ALL	484863	3615130	1.16E-06	12YrCancer	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1793	ALL	484913	3615130	1.18E-06	12YrCancer	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1794	ALL	484963	3615130	1.21E-06	12YrCancer	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1795	ALL	485013	3615130	1.24E-06	12YrCancer	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1796	ALL	485063	3615130	1.27E-06	12YrCancer	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1797	ALL	485113	3615130	1.30E-06	12YrCancer	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1798	ALL	485163	3615130	1.34E-06	12YrCancer	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1799	ALL	484113	3615180	8.39E-07	12YrCancer	8.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1800	ALL	484163	3615180	8.57E-07	12YrCancer	8.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1801	ALL	484213	3615180	8.75E-07	12YrCancer	8.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1802	ALL	484263	3615180	8.94E-07	12YrCancer	8.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1803	ALL	484313	3615180	9.14E-07	12YrCancer	9.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1804	ALL	484363	3615180	9.34E-07	12YrCancer	9.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1805	ALL	484413	3615180	9.55E-07	12YrCancer	9.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1806	ALL	484463	3615180	9.76E-07	12YrCancer	9.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1807	ALL	484513	3615180	9.98E-07	12YrCancer	9.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1808	ALL	484563	3615180	1.02E-06	12YrCancer	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1809	ALL	484613	3615180	1.04E-06	12YrCancer	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1810	ALL	484663	3615180	1.07E-06	12YrCancer	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1811	ALL	484713	3615180	1.09E-06	12YrCancer	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1812	ALL	484763	3615180	1.12E-06	12YrCancer	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1813	ALL	484813	3615180	1.15E-06	12YrCancer	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1814	ALL	484863	3615180	1.18E-06	12YrCancer	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1815	ALL	484913	3615180	1.20E-06	12YrCancer	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1816	ALL	484963	3615180	1.23E-06	12YrCancer	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1817	ALL	485013	3615180	1.26E-06	12YrCancer	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1818	ALL	485063	3615180	1.30E-06	12YrCancer	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1819	ALL	485113	3615180	1.33E-06	12YrCancer	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1820	ALL	485163	3615180	1.36E-06	12YrCancer	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1821	ALL	485213	3615180	1.40E-06	12YrCancer	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1822	ALL	484113	3615230	8.48E-07	12YrCancer	8.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1823	ALL	484163	3615230	8.66E-07	12YrCancer	8.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1824	ALL	484213	3615230	8.85E-07	12YrCancer	8.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1825	ALL	484263	3615230	9.05E-07	12YrCancer	9.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1826	ALL	484313	3615230	9.25E-07	12YrCancer	9.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1827	ALL	484363	3615230	9.49E-07	12YrCancer	9.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1828	ALL	484413	3615230	9.70E-07	12YrCancer	9.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1829	ALL	484463	3615230	9.92E-07	12YrCancer	9.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1830	ALL	484513	3615230	1.02E-06	12YrCancer	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1831	ALL	484563	3615230	1.04E-06	12YrCancer	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1832	ALL	484613	3615230	1.06E-06	12YrCancer	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1833	ALL	484663	3615230	1.09E-06	12YrCancer	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1834	ALL	484713	3615230	1.11E-06	12YrCancer	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1835	ALL	484763	3615230	1.14E-06	12YrCancer	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1836	ALL	484813	3615230	1.17E-06	12YrCancer	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1837	ALL	484863	3615230	1.19E-06	12YrCancer	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1838	ALL	484913	3615230	1.22E-06	12YrCancer	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1839	ALL	484963	3615230	1.25E-06	12YrCancer	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1840	ALL	485013	3615230	1.29E-06	12YrCancer	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1841	ALL	485063	3615230	1.32E-06	12YrCancer	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1842	ALL	485113	3615230	1.35E-06	12YrCancer	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1843	ALL	485163	3615230	1.39E-06	12YrCancer	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1844	ALL	485213	3615230	1.42E-06	12YrCancer	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1845	ALL	485263	3615230	1.47E-06	12YrCancer	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1846	ALL	484113	3615280	8.57E-07	12YrCancer	8.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1847	ALL	484163	3615280	8.76E-07	12YrCancer	8.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1848	ALL	484213	3615280	8.97E-07	12YrCancer	8.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1849	ALL	484263	3615280	9.19E-07	12YrCancer	9.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1850	ALL	484313	3615280	9.40E-07	12YrCancer	9.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1851	ALL	484613	3615280	1.08E-06	12YrCancer	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1852	ALL	484663	3615280	1.10E-06	12YrCancer	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1853	ALL	484713	3615280	1.13E-06	12YrCancer	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1854	ALL	484763	3615280	1.16E-06	12YrCancer	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1855	ALL	484813	3615280	1.18E-06	12YrCancer	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1856	ALL	484863	3615280	1.21E-06	12YrCancer	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1857	ALL	484913	3615280	1.24E-06	12YrCancer	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1858	ALL	484963	3615280	1.28E-06	12YrCancer	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1859	ALL	485013	3615280	1.31E-06	12YrCancer	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1860	ALL	485063	3615280	1.34E-06	12YrCancer	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1861	ALL	485113	3615280	1.38E-06	12YrCancer	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1862	ALL	485163	3615280	1.41E-06	12YrCancer	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1863	ALL	485213	3615280	1.45E-06	12YrCancer	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1864	ALL	485263	3615280	1.49E-06	12YrCancer	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1865	ALL	485313	3615280	1.54E-06	12YrCancer	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1866	ALL	484113	3615330	8.67E-07	12YrCancer	8.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1867	ALL	484163	3615330	8.89E-07	12YrCancer	8.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1868	ALL	484213	3615330	9.08E-07	12YrCancer	9.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1869	ALL	484663	3615330	1.12E-06	12YrCancer	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1870	ALL	484713	3615330	1.15E-06	12YrCancer	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1871	ALL	484763	3615330	1.18E-06	12YrCancer	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1872	ALL	484813	3615330	1.20E-06	12YrCancer	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1873	ALL	484863	3615330	1.23E-06	12YrCancer	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1874	ALL	484913	3615330	1.26E-06	12YrCancer	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1875	ALL	484963	3615330	1.30E-06	12YrCancer	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1876	ALL	485013	3615330	1.33E-06	12YrCancer	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1877	ALL	485063	3615330	1.37E-06	12YrCancer	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1878	ALL	485113	3615330	1.40E-06	12YrCancer	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1879	ALL	485163	3615330	1.44E-06	12YrCancer	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1880	ALL	485213	3615330	1.48E-06	12YrCancer	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1881	ALL	485263	3615330	1.52E-06	12YrCancer	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1882	ALL	485313	3615330	1.56E-06	12YrCancer	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1883	ALL	485363	3615330	1.61E-06	12YrCancer	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1884	ALL	484113	3615380	8.79E-07	12YrCancer	8.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1885	ALL	484163	3615380	8.98E-07	12YrCancer	8.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1886	ALL	484713	3615380	1.17E-06	12YrCancer	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1887	ALL	484763	3615380	1.19E-06	12YrCancer	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1888	ALL	484813	3615380	1.22E-06	12YrCancer	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1889	ALL	484863	3615380	1.25E-06	12YrCancer	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1890	ALL	484913	3615380	1.29E-06	12YrCancer	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1891	ALL	484963	3615380	1.32E-06	12YrCancer	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1892	ALL	485013	3615380	1.35E-06	12YrCancer	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1893	ALL	485063	3615380	1.39E-06	12YrCancer	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1894	ALL	485113	3615380	1.43E-06	12YrCancer	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1895	ALL	485163	3615380	1.47E-06	12YrCancer	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1896	ALL	485213	3615380	1.51E-06	12YrCancer	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1897	ALL	485263	3615380	1.55E-06	12YrCancer	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1898	ALL	485313	3615380	1.60E-06	12YrCancer	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1899	ALL	485363	3615380	1.64E-06	12YrCancer	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1900	ALL	485413	3615380	1.69E-06	12YrCancer	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1901	ALL	484763	3615430	1.21E-06	12YrCancer	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1902	ALL	484813	3615430	1.24E-06	12YrCancer	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1903	ALL	484863	3615430	1.28E-06	12YrCancer	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1904	ALL	484913	3615430	1.31E-06	12YrCancer	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1905	ALL	484963	3615430	1.34E-06	12YrCancer	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1906	ALL	485013	3615430	1.38E-06	12YrCancer	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1907	ALL	485063	3615430	1.42E-06	12YrCancer	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1908	ALL	485113	3615430	1.46E-06	12YrCancer	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1909	ALL	485163	3615430	1.50E-06	12YrCancer	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1910	ALL	485213	3615430	1.54E-06	12YrCancer	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1911	ALL	485263	3615430	1.58E-06	12YrCancer	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1912	ALL	485313	3615430	1.63E-06	12YrCancer	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1913	ALL	485363	3615430	1.68E-06	12YrCancer	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1914	ALL	485413	3615430	1.73E-06	12YrCancer	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1915	ALL	485463	3615430	1.78E-06	12YrCancer	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1916	ALL	485513	3615430	1.85E-06	12YrCancer	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1917	ALL	484813	3615480	1.26E-06	12YrCancer	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1918	ALL	484863	3615480	1.30E-06	12YrCancer	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1919	ALL	484913	3615480	1.33E-06	12YrCancer	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1920	ALL	484963	3615480	1.36E-06	12YrCancer	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1921	ALL	485013	3615480	1.40E-06	12YrCancer	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1922	ALL	485063	3615480	1.44E-06	12YrCancer	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1923	ALL	485113	3615480	1.48E-06	12YrCancer	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1924	ALL	485163	3615480	1.53E-06	12YrCancer	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1925	ALL	485213	3615480	1.57E-06	12YrCancer	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1926	ALL	485263	3615480	1.62E-06	12YrCancer	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1927	ALL	485313	3615480	1.66E-06	12YrCancer	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1928	ALL	485363	3615480	1.72E-06	12YrCancer	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1929	ALL	485413	3615480	1.77E-06	12YrCancer	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1930	ALL	485463	3615480	1.82E-06	12YrCancer	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1931	ALL	485513	3615480	1.89E-06	12YrCancer	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1932	ALL	485563	3615480	1.95E-06	12YrCancer	1.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1933	ALL	484863	3615530	1.32E-06	12YrCancer	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1934	ALL	484913	3615530	1.35E-06	12YrCancer	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1935	ALL	484963	3615530	1.39E-06	12YrCancer	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1936	ALL	485013	3615530	1.42E-06	12YrCancer	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1937	ALL	485063	3615530	1.47E-06	12YrCancer	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1938	ALL	485113	3615530	1.51E-06	12YrCancer	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1939	ALL	485163	3615530	1.55E-06	12YrCancer	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1940	ALL	485213	3615530	1.60E-06	12YrCancer	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1941	ALL	485263	3615530	1.65E-06	12YrCancer	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1942	ALL	485313	3615530	1.70E-06	12YrCancer	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1943	ALL	485363	3615530	1.75E-06	12YrCancer	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1944	ALL	485413	3615530	1.81E-06	12YrCancer	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1945	ALL	485463	3615530	1.86E-06	12YrCancer	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1946	ALL	485513	3615530	1.94E-06	12YrCancer	1.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1947	ALL	484913	3615580	1.37E-06	12YrCancer	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1948	ALL	484963	3615580	1.41E-06	12YrCancer	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1949	ALL	485013	3615580	1.45E-06	12YrCancer	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1950	ALL	485063	3615580	1.49E-06	12YrCancer	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1951	ALL	485113	3615580	1.53E-06	12YrCancer	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1952	ALL	485163	3615580	1.58E-06	12YrCancer	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1953	ALL	485213	3615580	1.63E-06	12YrCancer	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1954	ALL	485263	3615580	1.68E-06	12YrCancer	1.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1955	ALL	485313	3615580	1.73E-06	12YrCancer	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1956	ALL	485363	3615580	1.79E-06	12YrCancer	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1957	ALL	485413	3615580	1.85E-06	12YrCancer	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1958	ALL	485463	3615580	1.91E-06	12YrCancer	1.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1959	ALL	484963	3615630	1.44E-06	12YrCancer	1.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1960	ALL	485013	3615630	1.48E-06	12YrCancer	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1961	ALL	485063	3615630	1.52E-06	12YrCancer	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1962	ALL	485113	3615630	1.57E-06	12YrCancer	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1963	ALL	485163	3615630	1.61E-06	12YrCancer	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1964	ALL	485213	3615630	1.66E-06	12YrCancer	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1965	ALL	485263	3615630	1.71E-06	12YrCancer	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1966	ALL	485313	3615630	1.77E-06	12YrCancer	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1967	ALL	485363	3615630	1.82E-06	12YrCancer	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1968	ALL	485413	3615630	1.89E-06	12YrCancer	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1969	ALL	485013	3615680	1.50E-06	12YrCancer	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1970	ALL	485063	3615680	1.55E-06	12YrCancer	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1971	ALL	485113	3615680	1.59E-06	12YrCancer	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1972	ALL	485163	3615680	1.64E-06	12YrCancer	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1973	ALL	485213	3615680	1.69E-06	12YrCancer	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1974	ALL	485263	3615680	1.74E-06	12YrCancer	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1975	ALL	485313	3615680	1.80E-06	12YrCancer	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1976	ALL	485363	3615680	1.87E-06	12YrCancer	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1977	ALL	485413	3615680	1.94E-06	12YrCancer	1.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1978	ALL	485063	3615730	1.57E-06	12YrCancer	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1979	ALL	485113	3615730	1.62E-06	12YrCancer	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1980	ALL	485163	3615730	1.67E-06	12YrCancer	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1981	ALL	485213	3615730	1.73E-06	12YrCancer	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1982	ALL	485263	3615730	1.78E-06	12YrCancer	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1983	ALL	485313	3615730	1.84E-06	12YrCancer	1.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1984	ALL	485363	3615730	1.91E-06	12YrCancer	1.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1985	ALL	485113	3615780	1.65E-06	12YrCancer	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1986	ALL	485163	3615780	1.70E-06	12YrCancer	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1987	ALL	485213	3615780	1.76E-06	12YrCancer	1.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1988	ALL	485263	3615780	1.82E-06	12YrCancer	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1989	ALL	485313	3615780	1.88E-06	12YrCancer	1.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1990	ALL	485163	3615830	1.73E-06	12YrCancer	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1991	ALL	485213	3615830	1.79E-06	12YrCancer	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1992	ALL	485263	3615830	1.85E-06	12YrCancer	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1993	ALL	485213	3615880	1.82E-06	12YrCancer	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1994	ALL	485552.3	3616096	2.55E-06	12YrCancer	2.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1995	ALL	486018.2	3615678	2.99E-06	12YrCancer	2.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1996	ALL	486003.2	3616495	4.81E-06	12YrCancer	4.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1997	ALL	486759.7	3615938	7.14E-06	12YrCancer	7.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1998	ALL	486118.4	3616109	4.46E-06	12YrCancer	4.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1999	ALL	486519.2	3615658	4.25E-06	12YrCancer	4.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2000	ALL	487082.4	3618053	4.66E-07	12YrCancer	4.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2001	ALL	487132.2	3618053	4.76E-07	12YrCancer	4.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2002	ALL	487182.1	3618053	4.88E-07	12YrCancer	4.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2003	ALL	487232	3618053	4.80E-07	12YrCancer	4.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2004	ALL	487281.9	3618053	4.91E-07	12YrCancer	4.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2005	ALL	486424.8	3617999	1.16E-06	12YrCancer	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2006	ALL	486474.7	3617999	1.07E-06	12YrCancer	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2007	ALL	486524.6	3617999	9.89E-07	12YrCancer	9.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2008	ALL	486574.5	3617999	8.41E-07	12YrCancer	8.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2009	ALL	486624.4	3617999	7.59E-07	12YrCancer	7.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2010	ALL	486674.3	3617999	7.29E-07	12YrCancer	7.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2011	ALL	486724.1	3617999	6.63E-07	12YrCancer	6.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2012	ALL	486774	3617999	6.15E-07	12YrCancer	6.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2013	ALL	486823.9	3617999	5.85E-07	12YrCancer	5.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2014	ALL	486873.8	3617999	5.42E-07	12YrCancer	5.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2015	ALL	486923.7	3617999	4.96E-07	12YrCancer	4.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2016	ALL	486973.6	3617999	5.06E-07	12YrCancer	5.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2017	ALL	487023.5	3617999	5.14E-07	12YrCancer	5.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2018	ALL	487082.4	3618103	4.24E-07	12YrCancer	4.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	ALL	487132.2	3618103	4.13E-07	12YrCancer	4.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2020	ALL	487182.1	3618103	4.27E-07	12YrCancer	4.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2021	ALL	486374.9	3618049	1.10E-06	12YrCancer	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2022	ALL	486424.8	3618049	1.03E-06	12YrCancer	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2023	ALL	486474.7	3618049	9.51E-07	12YrCancer	9.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2024	ALL	486524.6	3618049	8.75E-07	12YrCancer	8.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2025	ALL	486574.5	3618049	8.17E-07	12YrCancer	8.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2026	ALL	486624.4	3618049	7.78E-07	12YrCancer	7.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2027	ALL	486674.3	3618049	7.51E-07	12YrCancer	7.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2028	ALL	486724.1	3618049	6.48E-07	12YrCancer	6.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2029	ALL	486774	3618049	5.63E-07	12YrCancer	5.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	ALL	486823.9	3618049	4.65E-07	12YrCancer	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2031	ALL	486873.8	3618049	4.85E-07	12YrCancer	4.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2032	ALL	486923.7	3618049	4.71E-07	12YrCancer	4.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2033	ALL	486973.6	3618049	4.56E-07	12YrCancer	4.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2034	ALL	487023.5	3618049	4.75E-07	12YrCancer	4.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2035	ALL	487082.4	3618153	3.78E-07	12YrCancer	3.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2036	ALL	487132.2	3618153	3.80E-07	12YrCancer	3.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2037	ALL	486325	3618099	1.03E-06	12YrCancer	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2038	ALL	486374.9	3618099	9.73E-07	12YrCancer	9.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2039	ALL	486424.8	3618099	9.12E-07	12YrCancer	9.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2040	ALL	486474.7	3618099	8.44E-07	12YrCancer	8.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2041	ALL	486524.6	3618099	7.81E-07	12YrCancer	7.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2042	ALL	486574.5	3618099	7.30E-07	12YrCancer	7.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2043	ALL	486624.4	3618099	6.92E-07	12YrCancer	6.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2044	ALL	486674.3	3618099	6.83E-07	12YrCancer	6.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2045	ALL	486724.1	3618099	6.78E-07	12YrCancer	6.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2046	ALL	486774	3618099	5.46E-07	12YrCancer	5.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2047	ALL	486823.9	3618099	4.53E-07	12YrCancer	4.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2048	ALL	486873.8	3618099	4.42E-07	12YrCancer	4.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2049	ALL	486923.7	3618099	4.58E-07	12YrCancer	4.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2050	ALL	486973.6	3618099	4.43E-07	12YrCancer	4.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2051	ALL	487023.5	3618099	4.37E-07	12YrCancer	4.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2052	ALL	487082.4	3618203	3.58E-07	12YrCancer	3.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2053	ALL	486275.1	3618149	9.33E-07	12YrCancer	9.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2054	ALL	486325	3618149	9.19E-07	12YrCancer	9.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2055	ALL	486374.9	3618149	8.58E-07	12YrCancer	8.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2056	ALL	486424.8	3618149	8.01E-07	12YrCancer	8.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2057	ALL	486474.7	3618149	7.50E-07	12YrCancer	7.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2058	ALL	486524.6	3618149	7.03E-07	12YrCancer	7.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2059	ALL	486574.5	3618149	6.85E-07	12YrCancer	6.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2060	ALL	486624.4	3618149	7.05E-07	12YrCancer	7.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2061	ALL	486674.3	3618149	7.29E-07	12YrCancer	7.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2062	ALL	486724.1	3618149	7.16E-07	12YrCancer	7.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2063	ALL	486774	3618149	5.83E-07	12YrCancer	5.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2064	ALL	486823.9	3618149	4.83E-07	12YrCancer	4.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2065	ALL	486873.8	3618149	4.68E-07	12YrCancer	4.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2066	ALL	486923.7	3618149	4.47E-07	12YrCancer	4.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2067	ALL	486973.6	3618149	4.31E-07	12YrCancer	4.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2068	ALL	487023.5	3618149	4.24E-07	12YrCancer	4.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2069	ALL	486225.2	3618199	9.43E-07	12YrCancer	9.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2070	ALL	486275.1	3618199	8.89E-07	12YrCancer	8.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2071	ALL	486325	3618199	7.79E-07	12YrCancer	7.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2072	ALL	486374.9	3618199	7.38E-07	12YrCancer	7.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2073	ALL	486424.8	3618199	6.90E-07	12YrCancer	6.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2074	ALL	486474.7	3618199	6.69E-07	12YrCancer	6.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2075	ALL	486524.6	3618199	6.53E-07	12YrCancer	6.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2076	ALL	486574.5	3618199	6.70E-07	12YrCancer	6.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2077	ALL	486624.4	3618199	6.86E-07	12YrCancer	6.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2078	ALL	486674.3	3618199	6.39E-07	12YrCancer	6.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2079	ALL	486724.1	3618199	7.17E-07	12YrCancer	7.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2080	ALL	486774	3618199	5.90E-07	12YrCancer	5.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2081	ALL	486823.9	3618199	5.17E-07	12YrCancer	5.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2082	ALL	486873.8	3618199	4.65E-07	12YrCancer	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2083	ALL	486923.7	3618199	4.57E-07	12YrCancer	4.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2084	ALL	486973.6	3618199	4.50E-07	12YrCancer	4.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2085	ALL	487023.5	3618199	4.13E-07	12YrCancer	4.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2086	ALL	486175.4	3618249	8.88E-07	12YrCancer	8.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2087	ALL	486225.2	3618249	8.43E-07	12YrCancer	8.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2088	ALL	486275.1	3618249	7.42E-07	12YrCancer	7.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2089	ALL	486325	3618249	6.97E-07	12YrCancer	6.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2090	ALL	486374.9	3618249	6.56E-07	12YrCancer	6.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2091	ALL	486424.8	3618249	6.14E-07	12YrCancer	6.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2092	ALL	486474.7	3618249	6.24E-07	12YrCancer	6.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2093	ALL	486524.6	3618249	6.38E-07	12YrCancer	6.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2094	ALL	486574.5	3618249	6.55E-07	12YrCancer	6.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2095	ALL	486624.4	3618249	6.38E-07	12YrCancer	6.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2096	ALL	486674.3	3618249	6.26E-07	12YrCancer	6.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2097	ALL	486724.1	3618249	6.06E-07	12YrCancer	6.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2098	ALL	486774	3618249	5.82E-07	12YrCancer	5.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2099	ALL	486823.9	3618249	5.12E-07	12YrCancel	5.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2100	ALL	486873.8	3618249	4.93E-07	12YrCancel	4.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2101	ALL	486923.7	3618249	4.80E-07	12YrCancel	4.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2102	ALL	486973.6	3618249	4.72E-07	12YrCancel	4.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2103	ALL	487023.5	3618249	4.31E-07	12YrCancel	4.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2104	ALL	486125.5	3618299	9.75E-07	12YrCancel	9.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2105	ALL	486175.4	3618299	8.54E-07	12YrCancel	8.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2106	ALL	486225.2	3618299	7.41E-07	12YrCancel	7.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2107	ALL	486275.1	3618299	6.71E-07	12YrCancel	6.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2108	ALL	486325	3618299	6.26E-07	12YrCancel	6.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2109	ALL	486374.9	3618299	5.87E-07	12YrCancel	5.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2110	ALL	486424.8	3618299	5.98E-07	12YrCancel	5.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2111	ALL	486474.7	3618299	6.11E-07	12YrCancel	6.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2112	ALL	486524.6	3618299	6.25E-07	12YrCancel	6.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2113	ALL	486574.5	3618299	6.40E-07	12YrCancel	6.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2114	ALL	486624.4	3618299	6.39E-07	12YrCancel	6.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2115	ALL	486674.3	3618299	6.35E-07	12YrCancel	6.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2116	ALL	486724.1	3618299	5.81E-07	12YrCancel	5.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2117	ALL	486774	3618299	5.62E-07	12YrCancel	5.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2118	ALL	486823.9	3618299	5.21E-07	12YrCancel	5.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2119	ALL	486873.8	3618299	4.84E-07	12YrCancel	4.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2120	ALL	486923.7	3618299	4.74E-07	12YrCancel	4.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2121	ALL	486125.5	3618349	9.49E-07	12YrCancel	9.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2122	ALL	486175.4	3618349	8.28E-07	12YrCancel	8.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2123	ALL	486225.2	3618349	6.55E-07	12YrCancel	6.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2124	ALL	486275.1	3618349	6.10E-07	12YrCancel	6.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2125	ALL	486325	3618349	5.65E-07	12YrCancel	5.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2126	ALL	486374.9	3618349	5.75E-07	12YrCancel	5.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2127	ALL	486424.8	3618349	5.86E-07	12YrCancel	5.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2128	ALL	486474.7	3618349	5.98E-07	12YrCancel	5.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2129	ALL	486524.6	3618349	6.11E-07	12YrCancel	6.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2130	ALL	486574.5	3618349	6.27E-07	12YrCancel	6.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2131	ALL	486624.4	3618349	6.44E-07	12YrCancel	6.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2132	ALL	486674.3	3618349	6.00E-07	12YrCancel	6.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2133	ALL	486724.1	3618349	5.73E-07	12YrCancel	5.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2134	ALL	486774	3618349	5.51E-07	12YrCancel	5.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2135	ALL	486823.9	3618349	5.35E-07	12YrCancel	5.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2136	ALL	486873.8	3618349	4.75E-07	12YrCancel	4.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2137	ALL	486125.5	3618399	9.24E-07	12YrCancel	9.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2138	ALL	486175.4	3618399	7.90E-07	12YrCancel	7.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2139	ALL	486225.2	3618399	5.58E-07	12YrCancel	5.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2140	ALL	486275.1	3618399	5.45E-07	12YrCancel	5.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2141	ALL	486325	3618399	5.54E-07	12YrCancel	5.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2142	ALL	486374.9	3618399	5.64E-07	12YrCancel	5.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2143	ALL	486424.8	3618399	5.74E-07	12YrCancel	5.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2144	ALL	486474.7	3618399	5.86E-07	12YrCancel	5.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2145	ALL	486524.6	3618399	5.98E-07	12YrCancel	5.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2146	ALL	486574.5	3618399	6.13E-07	12YrCancel	6.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2147	ALL	486624.4	3618399	6.30E-07	12YrCancel	6.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2148	ALL	486674.3	3618399	6.25E-07	12YrCancel	6.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2149	ALL	486724.1	3618399	6.06E-07	12YrCancel	6.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2150	ALL	486774	3618399	5.40E-07	12YrCancel	5.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2151	ALL	486823.9	3618399	5.24E-07	12YrCancel	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2152	ALL	486125.5	3618449	9.48E-07	12YrCancel	9.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2153	ALL	486175.4	3618449	6.95E-07	12YrCancel	6.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2154	ALL	486225.2	3618449	5.05E-07	12YrCancel	5.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2155	ALL	486275.1	3618449	5.13E-07	12YrCancel	5.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2156	ALL	486325	3618449	5.80E-07	12YrCancel	5.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2157	ALL	486374.9	3618449	6.11E-07	12YrCancel	6.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2158	ALL	486424.8	3618449	6.22E-07	12YrCancel	6.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2159	ALL	486474.7	3618449	6.15E-07	12YrCancel	6.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2160	ALL	486524.6	3618449	5.86E-07	12YrCancel	5.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2161	ALL	486574.5	3618449	6.00E-07	12YrCancel	6.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2162	ALL	486624.4	3618449	6.17E-07	12YrCancel	6.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2163	ALL	486674.3	3618449	6.35E-07	12YrCancel	6.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2164	ALL	486724.1	3618449	6.03E-07	12YrCancel	6.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2165	ALL	486774	3618449	5.83E-07	12YrCancel	5.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2166	ALL	486125.5	3618499	8.47E-07	12YrCancel	8.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2167	ALL	486175.4	3618499	4.67E-07	12YrCancel	4.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2168	ALL	486225.2	3618499	3.74E-07	12YrCancel	3.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2169	ALL	486275.1	3618499	6.42E-07	12YrCancel	6.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2170	ALL	486325	3618499	7.20E-07	12YrCancel	7.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2171	ALL	486374.9	3618499	6.63E-07	12YrCancel	6.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2172	ALL	486424.8	3618499	6.21E-07	12YrCancel	6.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2173	ALL	486474.7	3618499	6.20E-07	12YrCancel	6.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2174	ALL	486524.6	3618499	6.22E-07	12YrCancel	6.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2175	ALL	486574.5	3618499	5.93E-07	12YrCancel	5.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2176	ALL	486624.4	3618499	6.04E-07	12YrCancel	6.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2177	ALL	486674.3	3618499	6.21E-07	12YrCancel	6.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2178	ALL	486125.5	3618549	8.26E-07	12YrCancel	8.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2179	ALL	486175.4	3618549	3.61E-07	12YrCancel	3.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2180	ALL	486225.2	3618549	6.19E-07	12YrCancel	6.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2181	ALL	486275.1	3618549	8.44E-07	12YrCancel	8.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2182	ALL	486325	3618549	7.94E-07	12YrCancel	7.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2183	ALL	486374.9	3618549	6.94E-07	12YrCancel	6.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2184	ALL	486424.8	3618549	6.54E-07	12YrCancel	6.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2185	ALL	486474.7	3618549	6.06E-07	12YrCancel	6.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2186	ALL	486524.6	3618549	6.19E-07	12YrCancel	6.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2187	ALL	486574.5	3618549	5.96E-07	12YrCancel	5.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2188	ALL	486624.4	3618549	5.91E-07	12YrCancel	5.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2189	ALL	485782.1	3617697	2.65E-06	12YrCancel	2.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2190	ALL	486118	3618113	1.26E-06	12YrCancel	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2191	ALL	487046.4	3616930	4.26E-05	12YrCancel	4.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2192	ALL	487001.9	3616866	4.99E-05	12YrCancel	4.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2193	ALL	487027.9	3616813	4.91E-05	12YrCancel	4.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2194	ALL	487059.3	3616825	5.11E-05	12YrCancel	5.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2195	ALL	487097.3	3616749	5.47E-05	12YrCancel	5.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2196	ALL	487391.3	3616829	4.22E-05	12YrCancel	4.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2197	ALL	487479.9	3616731	4.12E-05	12YrCancel	4.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2198	ALL	487502.8	3616689	3.28E-05	12YrCancel	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2199	ALL	487412.4	3616682	4.66E-05	12YrCancel	4.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2200	ALL	487365	3616592	4.65E-05	12YrCancel	4.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2201	ALL	487332.8	3616533	4.35E-05	12YrCancel	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2202	ALL	487293.4	3616472	3.84E-05	12YrCancel	3.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2203	ALL	487248	3616422	3.17E-05	12YrCancel	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2204	ALL	487197.4	3616436	3.45E-05	12YrCancer	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2205	ALL	487083.9	3616471	3.68E-05	12YrCancer	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2206	ALL	487021.6	3616519	3.94E-05	12YrCancer	3.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2207	ALL	486926.8	3616572	3.66E-05	12YrCancer	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2208	ALL	486895.6	3616630	3.80E-05	12YrCancer	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2209	ALL	486821.4	3616675	3.61E-05	12YrCancer	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2210	ALL	486753.4	3616757	3.21E-05	12YrCancer	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2211	ALL	486732.1	3616765	3.00E-05	12YrCancer	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2212	ALL	486714.3	3616772	2.82E-05	12YrCancer	2.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2213	ALL	486614.1	3616565	1.53E-05	12YrCancer	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2214	ALL	486419.3	3616678	1.05E-05	12YrCancer	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2215	ALL	486594.8	3616964	1.85E-05	12YrCancer	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2216	ALL	486605.4	3616981	1.89E-05	12YrCancer	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2217	ALL	486707.8	3616937	2.89E-05	12YrCancer	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2218	ALL	486905.6	3617015	3.75E-05	12YrCancer	3.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2219	ALL	487046.4	3616930	4.53E-05	12YrCancer	4.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v21081 1/7/2022 4:15:04 PM - Chronic Risk - Input File: C:\Users\Brenda.Hom\OneDrive - Ascent Environmental\Brenda.Hom\My Documents\NASSCO - San Diego Port\NASSCO_PM25_HARP\hra\ResidentialPM2.5HRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		487520.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-03
2	ALL		487570.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-03
3	ALL		487620.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-03
4	ALL		487670.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-03
5	ALL		487720.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-03
6	ALL		487770.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-03
7	ALL		487820.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03
8	ALL		487870.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-03
9	ALL		487920.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03
10	ALL		487970.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03
11	ALL		488020.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03
12	ALL		488070.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03
13	ALL		488120.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03
14	ALL		488170.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
15	ALL		488220.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
16	ALL		488270.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
17	ALL		488320.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
18	ALL		488370.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
19	ALL		488420.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
20	ALL		488470.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
21	ALL		488520.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-04
22	ALL		488570.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-04
23	ALL		488620.6	3616550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-04
24	ALL		487520.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-03
25	ALL		487570.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-03
26	ALL		487620.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-03
27	ALL		487670.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-03
28	ALL		487720.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-03
29	ALL		487770.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-03
30	ALL		487820.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-03
31	ALL		487870.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-03
32	ALL		487920.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-03
33	ALL		487970.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03
34	ALL		488020.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03
35	ALL		488070.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03
36	ALL		488120.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03
37	ALL		488170.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
38	ALL		488220.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
39	ALL		488270.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03
40	ALL		488320.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
41	ALL		488370.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
42	ALL		488420.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
43	ALL		488470.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
44	ALL		488520.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-04
45	ALL		488570.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-04
46	ALL		488620.6	3616600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-04
47	ALL		487970.6	3616650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-03
48	ALL		488020.6	3616650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-03
49	ALL		488070.6	3616650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03
50	ALL		488120.6	3616650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03
51	ALL		488170.6	3616650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03
52	ALL		488220.6	3616650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03
53	ALL		488270.6	3616650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
54	ALL		488320.6	3616650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
55	ALL		488370.6	3616650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
56	ALL		488420.6	3616650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
57	ALL		488470.6	3616650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
58	ALL		488520.6	3616650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-04
59	ALL		488570.6	3616650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-04
60	ALL		488620.6	3616650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-04
61	ALL		487520.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-03
62	ALL		487570.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-03
63	ALL		487620.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-03
64	ALL		487670.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-03
65	ALL		487720.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-03
66	ALL		487770.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-03
67	ALL		487820.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-03
68	ALL		487870.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-03
69	ALL		487920.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-03
70	ALL		487970.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-03
71	ALL		488020.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03
72	ALL		488070.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03
73	ALL		488120.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03
74	ALL		488170.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03
75	ALL		488220.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03
76	ALL		488270.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
77	ALL		488320.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
78	ALL		488370.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
79	ALL		488420.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
80	ALL		488470.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
81	ALL		488520.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-04
82	ALL		488570.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-04
83	ALL		488620.6	3616700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-04
84	ALL		487470.6	3616750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-02
85	ALL		487520.6	3616750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-03
86	ALL		487570.6	3616750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-03
87	ALL		487620.6	3616750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-03
88	ALL		487670.6	3616750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-03
89	ALL		487720.6	3616750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-03
90	ALL		487770.6	3616750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-03
91	ALL		487820.6	3616750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-03
92	ALL		487870.6	3616750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03
93	ALL		487920.6	3616750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-03
94	ALL		487970.6	3616750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-03
95	ALL		488020.6	3616750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03
96	ALL		488070.6	3616750	NonCancer

104	ALL	488470.6	3616750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-04
105	ALL	488520.6	3616750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-04
106	ALL	488570.6	3616750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-04
107	ALL	488620.6	3616750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-04
108	ALL	487120.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-02
109	ALL	487170.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-02
110	ALL	487220.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-02
111	ALL	487270.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-02
112	ALL	487420.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-02
113	ALL	487470.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-02
114	ALL	487520.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-03
115	ALL	487570.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-03
116	ALL	487620.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-03
117	ALL	487670.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-03
118	ALL	487720.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03
119	ALL	487770.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-03
120	ALL	487820.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03
121	ALL	487870.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-03
122	ALL	487920.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03
123	ALL	487970.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03
124	ALL	488020.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03
125	ALL	488070.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03
126	ALL	488120.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03
127	ALL	488170.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
128	ALL	488220.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03
129	ALL	488270.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03
130	ALL	488320.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
131	ALL	488370.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
132	ALL	488420.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
133	ALL	488470.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-04
134	ALL	488520.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-04
135	ALL	488570.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-04
136	ALL	488620.6	3616800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-04
137	ALL	486470.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-03
138	ALL	486520.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-03
139	ALL	487020.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-02
140	ALL	487070.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-02
141	ALL	487120.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-02
142	ALL	487170.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-02
143	ALL	487220.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-02
144	ALL	487270.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-02
145	ALL	487320.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-02
146	ALL	487370.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02
147	ALL	487420.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-02
148	ALL	487470.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-03
149	ALL	487520.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03
150	ALL	487570.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-03
151	ALL	487620.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-03
152	ALL	487670.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-03
153	ALL	487720.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-03
154	ALL	487770.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-03
155	ALL	487820.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-03
156	ALL	487870.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03
157	ALL	487920.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-03
158	ALL	487970.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03
159	ALL	488020.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03
160	ALL	488070.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03
161	ALL	488120.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03
162	ALL	488170.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
163	ALL	488220.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
164	ALL	488270.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
165	ALL	488320.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
166	ALL	488370.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
167	ALL	488420.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-04
168	ALL	488470.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-04
169	ALL	488520.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-04
170	ALL	488570.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-04
171	ALL	488620.6	3616850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-04
172	ALL	486370.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-03
173	ALL	486420.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-03
174	ALL	486470.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-03
175	ALL	486520.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-03
176	ALL	487070.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-02
177	ALL	487120.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-02
178	ALL	487170.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-02
179	ALL	487220.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02
180	ALL	487270.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-03
181	ALL	487320.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-03
182	ALL	487370.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-03
183	ALL	487420.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-03
184	ALL	487470.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-03
185	ALL	487520.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-03
186	ALL	487570.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-03
187	ALL	487620.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-03
188	ALL	487670.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-03
189	ALL	487720.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-03
190	ALL	487770.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-03
191	ALL	487820.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-03
192	ALL	487870.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03
193	ALL	487920.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03
194	ALL	487970.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-03
195	ALL	488020.6	3616900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03
196

209	ALL	486220.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03
210	ALL	486370.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03
211	ALL	486420.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-03
212	ALL	486470.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-03
213	ALL	486520.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-03
214	ALL	486570.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-03
215	ALL	486720.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-03
216	ALL	487020.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-02
217	ALL	487070.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-02
218	ALL	487120.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-03
219	ALL	487170.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-03
220	ALL	487220.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-03
221	ALL	487270.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-03
222	ALL	487320.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-03
223	ALL	487370.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-03
224	ALL	487420.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-03
225	ALL	487470.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-03
226	ALL	487520.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-03
227	ALL	487570.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-03
228	ALL	487620.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-03
229	ALL	487670.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-03
230	ALL	487720.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-03
231	ALL	487770.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03
232	ALL	487820.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-03
233	ALL	487870.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03
234	ALL	487920.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03
235	ALL	487970.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03
236	ALL	488020.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03
237	ALL	488070.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
238	ALL	488120.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03
239	ALL	488170.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03
240	ALL	488220.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
241	ALL	488270.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
242	ALL	488320.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
243	ALL	488370.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
244	ALL	488420.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-04
245	ALL	488470.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-04
246	ALL	488520.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-04
247	ALL	488570.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-04
248	ALL	488620.6	3616950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-04
249	ALL	486170.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03
250	ALL	486220.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03
251	ALL	486270.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-03
252	ALL	486320.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03
253	ALL	486370.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-03
254	ALL	486420.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-03
255	ALL	486470.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-03
256	ALL	486520.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-03
257	ALL	486570.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-03
258	ALL	486620.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-03
259	ALL	486670.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-03
260	ALL	486720.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-03
261	ALL	486770.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-03
262	ALL	486820.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-02
263	ALL	486970.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-02
264	ALL	487020.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02
265	ALL	487070.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-03
266	ALL	487120.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-03
267	ALL	487170.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-03
268	ALL	487220.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-03
269	ALL	487270.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-03
270	ALL	487320.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-03
271	ALL	487370.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-03
272	ALL	487420.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-03
273	ALL	487470.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-03
274	ALL	487520.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-03
275	ALL	487570.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-03
276	ALL	487620.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-03
277	ALL	487670.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-03
278	ALL	487720.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-03
279	ALL	487770.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03
280	ALL	487820.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03
281	ALL	487870.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-03
282	ALL	487920.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03
283	ALL	487970.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03
284	ALL	488020.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
285	ALL	488070.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03
286	ALL	488120.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03
287	ALL	488170.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
288	ALL	488220.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
289	ALL	488270.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
290	ALL	488320.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
291	ALL	488370.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
292	ALL	488420.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-04
293	ALL	488470.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-04
294	ALL	488520.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-04
295	ALL	488570.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-04
296	ALL	488620.6	3617000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-04
297	ALL	486170.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03
298	ALL	486220.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03
299	ALL	486270.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-03
300	ALL	486320.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-03
301	ALL	486370.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-03
302	ALL	486420.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-03
303	ALL	486470.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-03
304	ALL	486520.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-03
305	ALL	486570.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-03
306	ALL	486620.6

314	ALL	487020.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-03
315	ALL	487070.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-03
316	ALL	487120.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-03
317	ALL	487170.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-03
318	ALL	487220.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-03
319	ALL	487270.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-03
320	ALL	487320.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-03
321	ALL	487370.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-03
322	ALL	487420.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-03
323	ALL	487470.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-03
324	ALL	487520.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-03
325	ALL	487570.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03
326	ALL	487620.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-03
327	ALL	487670.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-03
328	ALL	487720.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-03
329	ALL	487770.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-03
330	ALL	487820.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-03
331	ALL	487870.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-03
332	ALL	487920.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-03
333	ALL	487970.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03
334	ALL	488020.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03
335	ALL	488070.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03
336	ALL	488120.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
337	ALL	488170.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
338	ALL	488220.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
339	ALL	488270.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-04
340	ALL	488320.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-04
341	ALL	488370.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
342	ALL	488420.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
343	ALL	488470.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-04
344	ALL	488520.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-04
345	ALL	488570.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-04
346	ALL	488620.6	3617050	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04
347	ALL	486220.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03
348	ALL	486270.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03
349	ALL	486320.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-03
350	ALL	486370.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-03
351	ALL	486420.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03
352	ALL	486470.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-03
353	ALL	486520.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-03
354	ALL	486570.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-03
355	ALL	486620.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-03
356	ALL	486670.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-03
357	ALL	486720.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-03
358	ALL	486770.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-03
359	ALL	486820.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-03
360	ALL	486870.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-03
361	ALL	486920.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-03
362	ALL	486970.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-03
363	ALL	487020.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-03
364	ALL	487070.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-03
365	ALL	487120.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-03
366	ALL	487170.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-03
367	ALL	487220.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-03
368	ALL	487270.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-03
369	ALL	487320.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-03
370	ALL	487370.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-03
371	ALL	487420.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-03
372	ALL	487470.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-03
373	ALL	487520.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-03
374	ALL	487570.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-03
375	ALL	487620.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-03
376	ALL	487670.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-03
377	ALL	487720.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-03
378	ALL	487770.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03
379	ALL	487820.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03
380	ALL	487870.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-03
381	ALL	487920.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03
382	ALL	487970.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03
383	ALL	488020.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
384	ALL	488070.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-04
385	ALL	488120.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-04
386	ALL	488170.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-04
387	ALL	488220.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-04
388	ALL	488270.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-04
389	ALL	488320.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-04
390	ALL	488370.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-04
391	ALL	488420.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-04
392	ALL	488470.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-04
393	ALL	488520.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-04
394	ALL	488570.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-04
395	ALL	488620.6	3617100	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-04
396	ALL	486270.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03
397	ALL	486320.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
398	ALL	486370.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-03
399	ALL	486420.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-03
400	ALL	486470.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-03
401	ALL	486520.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-03
402	ALL	486570.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-03
403	ALL	486620.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-03
404	ALL	486670.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-03
405	ALL	486720.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-03
406

419	ALL	487420.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-03
420	ALL	487470.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-03
421	ALL	487520.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-03
422	ALL	487570.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-03
423	ALL	487620.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03
424	ALL	487670.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03
425	ALL	487720.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03
426	ALL	487770.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
427	ALL	487820.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03
428	ALL	487870.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
429	ALL	487920.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
430	ALL	487970.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
431	ALL	488020.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-04
432	ALL	488070.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04
433	ALL	488120.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-04
434	ALL	488170.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-04
435	ALL	488220.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-04
436	ALL	488270.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-04
437	ALL	488320.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-04
438	ALL	488370.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-04
439	ALL	488420.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-04
440	ALL	488470.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-04
441	ALL	488520.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-04
442	ALL	488570.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04
443	ALL	488620.6	3617150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-04
444	ALL	485970.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
445	ALL	486020.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
446	ALL	486220.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03
447	ALL	486270.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03
448	ALL	486320.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03
449	ALL	486370.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03
450	ALL	486420.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03
451	ALL	486470.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03
452	ALL	486520.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03
453	ALL	486570.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03
454	ALL	486620.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-03
455	ALL	486670.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-03
456	ALL	486720.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-03
457	ALL	486770.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03
458	ALL	486820.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-03
459	ALL	486870.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-03
460	ALL	486920.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-03
461	ALL	486970.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-03
462	ALL	487020.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-03
463	ALL	487070.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-03
464	ALL	487120.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-03
465	ALL	487170.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03
466	ALL	487220.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-03
467	ALL	487270.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-03
468	ALL	487320.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03
469	ALL	487370.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-03
470	ALL	487420.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-03
471	ALL	487470.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03
472	ALL	487520.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03
473	ALL	487570.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03
474	ALL	487620.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
475	ALL	487670.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03
476	ALL	487720.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
477	ALL	487770.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
478	ALL	487820.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
479	ALL	487870.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
480	ALL	487920.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-04
481	ALL	487970.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-04
482	ALL	488020.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-04
483	ALL	488070.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-04
484	ALL	488120.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-04
485	ALL	488170.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-04
486	ALL	488220.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04
487	ALL	488270.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-04
488	ALL	488320.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-04
489	ALL	488370.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-04
490	ALL	488420.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-04
491	ALL	488470.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-04
492	ALL	488520.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-04
493	ALL	488570.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-04
494	ALL	488620.6	3617200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04
495	ALL	485920.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
496	ALL	485970.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
497	ALL	486020.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
498	ALL	486070.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03
499	ALL	486170.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03
500	ALL	486220.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-03
501	ALL	486270.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03
502	ALL	486320.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-03
503	ALL	486370.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03
504	ALL	486420.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03
505	ALL	486470.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03
506	ALL	486520.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-03
507	ALL	486570.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03
508	ALL	486620.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-03
509	ALL	486670.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
510	ALL	486720.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
511	ALL	486770.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
512	ALL	486820.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03
513	ALL	486870.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03
514	ALL	486920.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-03
515	ALL	486970.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-03
516	ALL	487020.6

524	ALL	487420.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
525	ALL	487470.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
526	ALL	487520.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03
527	ALL	487570.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
528	ALL	487620.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
529	ALL	487670.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
530	ALL	487720.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
531	ALL	487770.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
532	ALL	487820.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-04
533	ALL	487870.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-04
534	ALL	487920.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-04
535	ALL	487970.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-04
536	ALL	488020.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-04
537	ALL	488070.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-04
538	ALL	488120.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-04
539	ALL	488170.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-04
540	ALL	488220.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04
541	ALL	488270.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-04
542	ALL	488320.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-04
543	ALL	488370.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-04
544	ALL	488420.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-04
545	ALL	488470.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-04
546	ALL	488520.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04
547	ALL	488570.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-04
548	ALL	488620.6	3617250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-04
549	ALL	485870.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
550	ALL	485920.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
551	ALL	485970.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
552	ALL	486020.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
553	ALL	486070.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
554	ALL	486120.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
555	ALL	486170.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
556	ALL	486220.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03
557	ALL	486270.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
558	ALL	486320.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03
559	ALL	486370.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
560	ALL	486420.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03
561	ALL	486470.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03
562	ALL	486520.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03
563	ALL	486570.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03
564	ALL	486620.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
565	ALL	486670.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03
566	ALL	486720.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
567	ALL	486770.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03
568	ALL	486820.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03
569	ALL	486870.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03
570	ALL	486920.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03
571	ALL	486970.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
572	ALL	487020.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03
573	ALL	487070.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03
574	ALL	487120.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
575	ALL	487170.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03
576	ALL	487220.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
577	ALL	487270.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
578	ALL	487320.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
579	ALL	487370.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
580	ALL	487420.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
581	ALL	487470.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
582	ALL	487520.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
583	ALL	487570.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
584	ALL	487620.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
585	ALL	487670.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
586	ALL	487720.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-04
587	ALL	487770.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-04
588	ALL	487820.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-04
589	ALL	487870.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-04
590	ALL	487920.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-04
591	ALL	487970.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-04
592	ALL	488020.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-04
593	ALL	488070.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-04
594	ALL	488120.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-04
595	ALL	488170.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04
596	ALL	488220.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-04
597	ALL	488270.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-04
598	ALL	488320.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-04
599	ALL	488370.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-04
600	ALL	488420.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-04
601	ALL	488470.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-04
602	ALL	488520.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-04
603	ALL	488570.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-04
604	ALL	488620.6	3617300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04
605	ALL	485870.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
606	ALL	485920.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
607	ALL	485970.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
608	ALL	486020.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03
609	ALL	486070.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
610	ALL	486120.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
611	ALL	486170.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03
612	ALL	486220.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
613	ALL	486270.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
614	ALL	486320.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03
615	ALL	486370.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
616	ALL	486420.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03
617	ALL	486470.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
618	ALL	486520.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03
619	ALL	486570.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03
620	ALL	486620.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03
621	ALL	486670.6

629	ALL	487070.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
630	ALL	487120.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
631	ALL	487170.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
632	ALL	487220.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
633	ALL	487270.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
634	ALL	487320.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
635	ALL	487370.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
636	ALL	487420.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
637	ALL	487470.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
638	ALL	487520.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
639	ALL	487570.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
640	ALL	487620.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
641	ALL	487670.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-04
642	ALL	487720.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-04
643	ALL	487770.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-04
644	ALL	487820.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-04
645	ALL	487870.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-04
646	ALL	487920.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-04
647	ALL	487970.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-04
648	ALL	488020.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-04
649	ALL	488070.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-04
650	ALL	488120.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-04
651	ALL	488170.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-04
652	ALL	488220.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-04
653	ALL	488270.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-04
654	ALL	488320.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-04
655	ALL	488370.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-04
656	ALL	488420.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04
657	ALL	488470.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-04
658	ALL	488520.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-04
659	ALL	488570.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04
660	ALL	488620.6	3617350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-04
661	ALL	485870.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
662	ALL	485920.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
663	ALL	485970.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
664	ALL	486020.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
665	ALL	486070.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
666	ALL	486120.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
667	ALL	486170.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
668	ALL	486220.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
669	ALL	486270.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
670	ALL	486320.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
671	ALL	486370.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
672	ALL	486420.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
673	ALL	486470.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
674	ALL	486520.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
675	ALL	486570.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
676	ALL	486620.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
677	ALL	486670.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
678	ALL	486720.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
679	ALL	486770.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
680	ALL	486820.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
681	ALL	486870.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
682	ALL	486920.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
683	ALL	486970.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
684	ALL	487020.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
685	ALL	487070.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
686	ALL	487120.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-04
687	ALL	487170.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
688	ALL	487220.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-04
689	ALL	487270.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-04
690	ALL	487320.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-04
691	ALL	487370.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
692	ALL	487420.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
693	ALL	487470.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
694	ALL	487520.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
695	ALL	487570.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
696	ALL	487620.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
697	ALL	487670.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-04
698	ALL	487720.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-04
699	ALL	487770.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-04
700	ALL	487820.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-04
701	ALL	487870.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-04
702	ALL	487920.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04
703	ALL	487970.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-04
704	ALL	488020.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-04
705	ALL	488070.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-04
706	ALL	488120.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04
707	ALL	488170.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04
708	ALL	488220.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-04
709	ALL	488270.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-04
710	ALL	488320.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04
711	ALL	488370.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04
712	ALL	488420.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-04
713	ALL	488470.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-04
714	ALL	488520.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-04
715	ALL	488570.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-04
716	ALL	488620.6	3617400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-04
717	ALL	485870.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-04
718	ALL	485920.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
719	ALL	485970.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
720	ALL	486020.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
721	ALL	486070.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
722	ALL	486120.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
723	ALL	486170.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
724	ALL	486220.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
725	ALL	486270.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
726	ALL	486320.6

734	ALL	486720.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
735	ALL	486770.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-04
736	ALL	486820.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-04
737	ALL	486870.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-04
738	ALL	486920.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-04
739	ALL	486970.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-04
740	ALL	487020.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-04
741	ALL	487070.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-04
742	ALL	487120.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-04
743	ALL	487170.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-04
744	ALL	487220.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-04
745	ALL	487270.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04
746	ALL	487320.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-04
747	ALL	487370.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
748	ALL	487420.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
749	ALL	487470.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
750	ALL	487520.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
751	ALL	487570.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-04
752	ALL	487620.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-04
753	ALL	487670.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-04
754	ALL	487720.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-04
755	ALL	487770.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-04
756	ALL	487820.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-04
757	ALL	487870.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-04
758	ALL	487920.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04
759	ALL	487970.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-04
760	ALL	488020.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-04
761	ALL	488070.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-04
762	ALL	488120.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04
763	ALL	488170.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04
764	ALL	488220.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04
765	ALL	488270.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-04
766	ALL	488320.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-04
767	ALL	488370.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04
768	ALL	488420.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-04
769	ALL	488470.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-04
770	ALL	488520.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-04
771	ALL	488570.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-04
772	ALL	488620.6	3617450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-04
773	ALL	485870.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-04
774	ALL	485920.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-04
775	ALL	485970.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
776	ALL	486020.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
777	ALL	486070.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
778	ALL	486120.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
779	ALL	486170.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
780	ALL	486220.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
781	ALL	486270.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
782	ALL	486320.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
783	ALL	486370.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
784	ALL	486420.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
785	ALL	486470.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-04
786	ALL	486520.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-04
787	ALL	486570.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-04
788	ALL	486620.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-04
789	ALL	486670.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-04
790	ALL	486720.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-04
791	ALL	486770.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-04
792	ALL	486820.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-04
793	ALL	486870.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.68E-04
794	ALL	486920.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-04
795	ALL	486970.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-04
796	ALL	487020.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-04
797	ALL	487070.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-04
798	ALL	487120.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-04
799	ALL	487170.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-04
800	ALL	487220.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-04
801	ALL	487270.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-04
802	ALL	487320.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-04
803	ALL	487370.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-04
804	ALL	487420.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-04
805	ALL	487470.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-04
806	ALL	487520.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-04
807	ALL	487570.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-04
808	ALL	487620.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-04
809	ALL	487670.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-04
810	ALL	487720.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-04
811	ALL	487770.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-04
812	ALL	487820.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04
813	ALL	487870.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04
814	ALL	487920.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04
815	ALL	487970.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-04
816	ALL	488020.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04
817	ALL	488070.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04
818	ALL	488120.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04
819	ALL	488170.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04
820	ALL	488220.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04
821	ALL	488270.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04
822	ALL	488320.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04
823	ALL	488370.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-04
824	ALL	488420.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-04
825	ALL	488470.6	3617500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-04
826

839	ALL	486370.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-04
840	ALL	486420.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-04
841	ALL	486470.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04
842	ALL	486520.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-04
843	ALL	486570.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-04
844	ALL	486620.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-04
845	ALL	486670.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-04
846	ALL	486720.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-04
847	ALL	486770.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-04
848	ALL	486820.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-04
849	ALL	486870.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-04
850	ALL	486920.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-04
851	ALL	486970.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-04
852	ALL	487020.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04
853	ALL	487070.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04
854	ALL	487120.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-04
855	ALL	487170.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-04
856	ALL	487220.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-04
857	ALL	487270.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-04
858	ALL	487320.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-04
859	ALL	487370.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-04
860	ALL	487420.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-04
861	ALL	487470.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04
862	ALL	487520.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04
863	ALL	487570.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-04
864	ALL	487620.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04
865	ALL	487670.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-04
866	ALL	487720.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04
867	ALL	487770.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04
868	ALL	487820.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-04
869	ALL	487870.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04
870	ALL	487920.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04
871	ALL	487970.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04
872	ALL	488020.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04
873	ALL	488070.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04
874	ALL	488120.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04
875	ALL	488170.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04
876	ALL	488220.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04
877	ALL	488270.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04
878	ALL	488320.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04
879	ALL	488370.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-04
880	ALL	488420.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-04
881	ALL	488470.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04
882	ALL	488520.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-04
883	ALL	488570.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-04
884	ALL	488620.6	3617550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-04
885	ALL	485870.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-04
886	ALL	485920.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-04
887	ALL	485970.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-04
888	ALL	486020.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-04
889	ALL	486070.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-04
890	ALL	486120.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-04
891	ALL	486170.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-04
892	ALL	486220.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-04
893	ALL	486270.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-04
894	ALL	486320.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-04
895	ALL	486370.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-04
896	ALL	486420.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04
897	ALL	486470.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-04
898	ALL	486520.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-04
899	ALL	486570.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-04
900	ALL	486620.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-04
901	ALL	486670.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-04
902	ALL	486720.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04
903	ALL	486770.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-04
904	ALL	486820.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-04
905	ALL	486870.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-04
906	ALL	486920.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04
907	ALL	486970.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04
908	ALL	487020.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-04
909	ALL	487070.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04
910	ALL	487120.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04
911	ALL	487170.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04
912	ALL	487220.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-04
913	ALL	487270.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-04
914	ALL	487320.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-04
915	ALL	487370.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-04
916	ALL	487420.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-04
917	ALL	487470.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04
918	ALL	487520.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-04
919	ALL	487570.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04
920	ALL	487620.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04
921	ALL	487670.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04
922	ALL	487720.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04
923	ALL	487770.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04
924	ALL	487820.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-04
925	ALL	487870.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04
926	ALL	487920.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04
927	ALL	487970.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04
928	ALL	488020.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
929	ALL	488070.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
930	ALL	488120.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
931	ALL	488170.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04
932	ALL	488220.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04
933	ALL	488270.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04
934	ALL	488320.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04
935	ALL	488370.6	3617600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-04
936	ALL	488420.6

944	ALL	486020.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-04
945	ALL	486070.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-04
946	ALL	486120.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-04
947	ALL	486170.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-04
948	ALL	486220.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-04
949	ALL	486270.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-04
950	ALL	486320.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-04
951	ALL	486370.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-04
952	ALL	486420.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04
953	ALL	486470.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-04
954	ALL	486520.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-04
955	ALL	486570.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-04
956	ALL	486620.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-04
957	ALL	486670.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-04
958	ALL	486720.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-04
959	ALL	486770.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04
960	ALL	486820.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04
961	ALL	486870.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-04
962	ALL	486920.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04
963	ALL	486970.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04
964	ALL	487020.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04
965	ALL	487070.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-04
966	ALL	487120.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04
967	ALL	487170.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-04
968	ALL	487220.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-04
969	ALL	487270.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-04
970	ALL	487320.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-04
971	ALL	487370.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-04
972	ALL	487420.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04
973	ALL	487470.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04
974	ALL	487520.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04
975	ALL	487570.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04
976	ALL	487620.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04
977	ALL	487670.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04
978	ALL	487720.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04
979	ALL	487770.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04
980	ALL	487820.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04
981	ALL	487870.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04
982	ALL	487920.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04
983	ALL	487970.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04
984	ALL	488020.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
985	ALL	488070.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
986	ALL	488120.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
987	ALL	488170.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04
988	ALL	488220.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04
989	ALL	488270.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04
990	ALL	488320.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04
991	ALL	488370.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-04
992	ALL	488420.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-04
993	ALL	488470.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-04
994	ALL	488520.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-04
995	ALL	488570.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-04
996	ALL	488620.6	3617650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-04
997	ALL	485870.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-04
998	ALL	485920.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-04
999	ALL	485970.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-04
1000	ALL	486020.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-04
1001	ALL	486070.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-04
1002	ALL	486120.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-04
1003	ALL	486170.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-04
1004	ALL	486220.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-04
1005	ALL	486270.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-04
1006	ALL	486320.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-04
1007	ALL	486370.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04
1008	ALL	486420.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-04
1009	ALL	486470.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04
1010	ALL	486520.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-04
1011	ALL	486570.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04
1012	ALL	486620.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-04
1013	ALL	486670.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-04
1014	ALL	486720.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04
1015	ALL	486770.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04
1016	ALL	486820.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04
1017	ALL	486870.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04
1018	ALL	486920.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04
1019	ALL	486970.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04
1020	ALL	487020.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04
1021	ALL	487070.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04
1022	ALL	487120.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04
1023	ALL	487170.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-04
1024	ALL	487220.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04
1025	ALL	487270.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04
1026	ALL	487320.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04
1027	ALL	487370.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04
1028	ALL	487420.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04
1029	ALL	487470.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04
1030	ALL	487520.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04
1031	ALL	487570.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04
1032	ALL	487620.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04
1033	ALL	487670.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04
1034	ALL	487720.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04
1035	ALL	487770.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04
1036	ALL	487820.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04
1037	ALL	487870.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
1038	ALL	487920.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
1039	ALL	487970.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
1040	ALL	488020.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.

1049	ALL	488470.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-04
1050	ALL	488520.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-04
1051	ALL	488570.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-04
1052	ALL	488620.6	3617700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-04
1053	ALL	485870.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-04
1054	ALL	485920.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-04
1055	ALL	485970.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-04
1056	ALL	486020.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-04
1057	ALL	486070.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-04
1058	ALL	486120.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-04
1059	ALL	486170.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-04
1060	ALL	486220.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-04
1061	ALL	486270.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-04
1062	ALL	486320.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-04
1063	ALL	486370.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-04
1064	ALL	486420.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04
1065	ALL	486470.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-04
1066	ALL	486520.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-04
1067	ALL	486570.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-04
1068	ALL	486620.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04
1069	ALL	486670.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04
1070	ALL	486720.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04
1071	ALL	486770.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04
1072	ALL	486820.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04
1073	ALL	486870.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04
1074	ALL	486920.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04
1075	ALL	486970.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04
1076	ALL	487020.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04
1077	ALL	487070.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04
1078	ALL	487120.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04
1079	ALL	487170.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04
1080	ALL	487220.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04
1081	ALL	487270.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04
1082	ALL	487320.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04
1083	ALL	487370.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
1084	ALL	487420.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04
1085	ALL	487470.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
1086	ALL	487520.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
1087	ALL	487570.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
1088	ALL	487620.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
1089	ALL	487670.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04
1090	ALL	487720.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04
1091	ALL	487770.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
1092	ALL	487820.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
1093	ALL	487870.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
1094	ALL	487920.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
1095	ALL	487970.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
1096	ALL	488020.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04
1097	ALL	488070.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04
1098	ALL	488120.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04
1099	ALL	488170.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04
1100	ALL	488220.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-04
1101	ALL	488270.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-04
1102	ALL	488320.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-04
1103	ALL	488370.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-04
1104	ALL	488420.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-04
1105	ALL	488470.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-04
1106	ALL	488520.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-04
1107	ALL	488570.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-04
1108	ALL	488620.6	3617750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-04
1109	ALL	485870.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-04
1110	ALL	485920.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-04
1111	ALL	485970.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-04
1112	ALL	486020.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-04
1113	ALL	486070.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-04
1114	ALL	486120.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-04
1115	ALL	486170.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-04
1116	ALL	486220.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-04
1117	ALL	486270.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-04
1118	ALL	486370.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-04
1119	ALL	486420.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-04
1120	ALL	486470.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-04
1121	ALL	486520.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04
1122	ALL	486570.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-04
1123	ALL	486620.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04
1124	ALL	486670.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04
1125	ALL	486720.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04
1126	ALL	486770.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04
1127	ALL	486820.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04
1128	ALL	486870.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04
1129	ALL	486920.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04
1130	ALL	486970.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04
1131	ALL	487020.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04
1132	ALL	487070.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04
1133	ALL	487120.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
1134	ALL	487170.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
1135	ALL	487220.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
1136	ALL	487270.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
1137	ALL	487320.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
1138	ALL	487370.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04
1139	ALL	487420.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
1140	ALL	487470.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
1141	ALL	487520.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04
1142	ALL	487570.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04
1143	ALL	487620.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04
1144	ALL	487670.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04
1145	ALL	487720.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1154	ALL	488170.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-04
1155	ALL	488220.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-04
1156	ALL	488270.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-04
1157	ALL	488320.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04
1158	ALL	488370.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-04
1159	ALL	488420.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-04
1160	ALL	488470.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-04
1161	ALL	488520.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-04
1162	ALL	488570.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-04
1163	ALL	488620.6	3617800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-04
1164	ALL	485870.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-04
1165	ALL	485920.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-04
1166	ALL	485970.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-04
1167	ALL	486020.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-04
1168	ALL	486070.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-04
1169	ALL	486120.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-04
1170	ALL	486170.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-04
1171	ALL	486220.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-04
1172	ALL	486420.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04
1173	ALL	486470.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-04
1174	ALL	486520.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-04
1175	ALL	486570.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-04
1176	ALL	486620.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04
1177	ALL	486670.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
1178	ALL	486720.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
1179	ALL	486770.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
1180	ALL	486820.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
1181	ALL	486870.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04
1182	ALL	486920.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04
1183	ALL	486970.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04
1184	ALL	487020.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
1185	ALL	487070.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
1186	ALL	487120.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
1187	ALL	487170.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
1188	ALL	487220.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
1189	ALL	487270.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04
1190	ALL	487320.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04
1191	ALL	487370.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
1192	ALL	487420.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
1193	ALL	487470.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04
1194	ALL	487520.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
1195	ALL	487570.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04
1196	ALL	487620.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04
1197	ALL	487670.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04
1198	ALL	487720.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
1199	ALL	487770.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
1200	ALL	487820.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
1201	ALL	487870.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
1202	ALL	487920.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04
1203	ALL	487970.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04
1204	ALL	488020.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04
1205	ALL	488070.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-04
1206	ALL	488120.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-04
1207	ALL	488170.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-04
1208	ALL	488220.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-04
1209	ALL	488270.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-04
1210	ALL	488320.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-04
1211	ALL	488370.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-04
1212	ALL	488420.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-04
1213	ALL	488470.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-04
1214	ALL	488520.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-04
1215	ALL	488570.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-04
1216	ALL	488620.6	3617850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-04
1217	ALL	485870.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-04
1218	ALL	485920.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04
1219	ALL	485970.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-04
1220	ALL	486020.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-04
1221	ALL	486070.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-04
1222	ALL	486120.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04
1223	ALL	486170.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-04
1224	ALL	486470.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-04
1225	ALL	486520.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04
1226	ALL	486570.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04
1227	ALL	486620.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04
1228	ALL	486670.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
1229	ALL	486720.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
1230	ALL	486770.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04
1231	ALL	486820.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
1232	ALL	486870.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
1233	ALL	486920.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04
1234	ALL	486970.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04
1235	ALL	487020.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
1236	ALL	487070.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
1237	ALL	487120.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
1238	ALL	487170.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
1239	ALL	487220.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
1240	ALL	487270.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
1241	ALL	487320.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04
1242	ALL	487370.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
1243	ALL	487420.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
1244	ALL	487470.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
1245	ALL	487520.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04
1246	ALL	487570.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
1247	ALL	487620.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
1248	ALL	487670.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04
1249	ALL	487720.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
1250	ALL	487770.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1259	ALL	488220.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-04
1260	ALL	488270.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-04
1261	ALL	488320.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-04
1262	ALL	488370.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-04
1263	ALL	488420.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-04
1264	ALL	488470.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-04
1265	ALL	488520.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-04
1266	ALL	488570.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-04
1267	ALL	488620.6	3617900	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-04
1268	ALL	485870.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-04
1269	ALL	485920.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-04
1270	ALL	485970.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-04
1271	ALL	486020.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-04
1272	ALL	486070.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-04
1273	ALL	487077.5	3618005	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
1274	ALL	487127.5	3618005	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
1275	ALL	487177.5	3618005	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
1276	ALL	487227.5	3618005	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
1277	ALL	487277.5	3618005	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
1278	ALL	487327.5	3618005	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
1279	ALL	486470.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04
1280	ALL	486520.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04
1281	ALL	486570.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
1282	ALL	486620.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
1283	ALL	486670.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
1284	ALL	486720.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
1285	ALL	486770.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
1286	ALL	486820.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
1287	ALL	486870.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
1288	ALL	486920.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
1289	ALL	486970.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
1290	ALL	487020.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
1291	ALL	487070.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
1292	ALL	487120.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
1293	ALL	487170.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
1294	ALL	487220.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
1295	ALL	487270.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
1296	ALL	487320.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
1297	ALL	487370.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
1298	ALL	487420.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
1299	ALL	487470.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
1300	ALL	487520.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
1301	ALL	487570.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
1302	ALL	487620.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
1303	ALL	487670.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
1304	ALL	487720.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
1305	ALL	487770.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
1306	ALL	487820.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
1307	ALL	487870.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
1308	ALL	487920.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04
1309	ALL	487970.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-04
1310	ALL	488020.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04
1311	ALL	488070.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-04
1312	ALL	488120.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-04
1313	ALL	488170.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-04
1314	ALL	488220.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04
1315	ALL	488270.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04
1316	ALL	488320.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-04
1317	ALL	488370.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-04
1318	ALL	488420.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-04
1319	ALL	488470.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-04
1320	ALL	488520.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-04
1321	ALL	488570.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-04
1322	ALL	488620.6	3617950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-04
1323	ALL	487840.1	3615798	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
1324	ALL	487890.1	3615798	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
1325	ALL	487940.1	3615798	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
1326	ALL	487990.1	3615798	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
1327	ALL	488240.1	3615798	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-04
1328	ALL	488290.1	3615798	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-04
1329	ALL	488340.1	3615798	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-04
1330	ALL	488390.1	3615798	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-04
1331	ALL	488440.1	3615798	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-04
1332	ALL	488490.1	3615798	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-04
1333	ALL	488540.1	3615798	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-04
1334	ALL	488590.1	3615798	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-04
1335	ALL	487940.1	3615848	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
1336	ALL	487990.1	3615848	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
1337	ALL	488040.1	3615848	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
1338	ALL	488190.1	3615848	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
1339	ALL	488240.1	3615848	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-04
1340	ALL	488290.1	3615848	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-04
1341	ALL	488340.1	3615848	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-04
1342	ALL	488390.1	3615848	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-04
1343	ALL	488440.1	3615848	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-04
1344	ALL	488490.1	3615848	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-04
1345	ALL	488540.1	3615848	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-04
1346	ALL	488590.1	3615848	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-04
1347	ALL	487740.1	3615898	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03
1348	ALL	487990.1	3615898	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
1349	ALL	488040.1	3615898	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
1350	ALL	488090.1	3615898	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16

1364	ALL	488090.1	3615948	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
1365	ALL	488140.1	3615948	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
1366	ALL	488190.1	3615948	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
1367	ALL	488240.1	3615948	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
1368	ALL	488290.1	3615948	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-04
1369	ALL	488340.1	3615948	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-04
1370	ALL	488390.1	3615948	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-04
1371	ALL	488440.1	3615948	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-04
1372	ALL	488490.1	3615948	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-04
1373	ALL	488540.1	3615948	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-04
1374	ALL	488590.1	3615948	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04
1375	ALL	487690.1	3615998	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03
1376	ALL	487740.1	3615998	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03
1377	ALL	487790.1	3615998	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
1378	ALL	487840.1	3615998	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03
1379	ALL	487890.1	3615998	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03
1380	ALL	488090.1	3615998	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
1381	ALL	488140.1	3615998	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
1382	ALL	488190.1	3615998	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
1383	ALL	488240.1	3615998	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-04
1384	ALL	488290.1	3615998	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-04
1385	ALL	488340.1	3615998	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-04
1386	ALL	488390.1	3615998	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-04
1387	ALL	488440.1	3615998	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-04
1388	ALL	488490.1	3615998	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-04
1389	ALL	488540.1	3615998	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-04
1390	ALL	488590.1	3615998	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-04
1391	ALL	487540.1	3616048	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-03
1392	ALL	487790.1	3616048	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03
1393	ALL	487840.1	3616048	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
1394	ALL	487890.1	3616048	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03
1395	ALL	487940.1	3616048	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03
1396	ALL	488090.1	3616048	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03
1397	ALL	488140.1	3616048	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
1398	ALL	488190.1	3616048	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
1399	ALL	488240.1	3616048	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
1400	ALL	488290.1	3616048	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
1401	ALL	488340.1	3616048	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
1402	ALL	488390.1	3616048	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-04
1403	ALL	488440.1	3616048	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-04
1404	ALL	488490.1	3616048	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-04
1405	ALL	488540.1	3616048	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04
1406	ALL	488590.1	3616048	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-04
1407	ALL	487540.1	3616098	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-03
1408	ALL	487590.1	3616098	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03
1409	ALL	487640.1	3616098	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-03
1410	ALL	487890.1	3616098	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
1411	ALL	487940.1	3616098	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03
1412	ALL	487990.1	3616098	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03
1413	ALL	488040.1	3616098	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
1414	ALL	488090.1	3616098	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
1415	ALL	488140.1	3616098	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
1416	ALL	488190.1	3616098	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
1417	ALL	488240.1	3616098	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
1418	ALL	488290.1	3616098	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
1419	ALL	488340.1	3616098	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03
1420	ALL	488390.1	3616098	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
1421	ALL	488440.1	3616098	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-04
1422	ALL	488490.1	3616098	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-04
1423	ALL	488540.1	3616098	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-04
1424	ALL	488590.1	3616098	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-04
1425	ALL	487540.1	3616148	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-03
1426	ALL	487590.1	3616148	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-03
1427	ALL	487640.1	3616148	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03
1428	ALL	487690.1	3616148	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03
1429	ALL	487940.1	3616148	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
1430	ALL	487990.1	3616148	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
1431	ALL	488040.1	3616148	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
1432	ALL	488090.1	3616148	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
1433	ALL	488140.1	3616148	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
1434	ALL	488190.1	3616148	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
1435	ALL	488240.1	3616148	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
1436	ALL	488290.1	3616148	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
1437	ALL	488340.1	3616148	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
1438	ALL	488390.1	3616148	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
1439	ALL	488440.1	3616148	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-04
1440	ALL	488490.1	3616148	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-04
1441	ALL	488540.1	3616148	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-04
1442	ALL	488590.1	3616148	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-04
1443	ALL	487590.1	3616198	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-03
1444	ALL	487640.1	3616198	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03
1445	ALL	487690.1	3616198	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-03
1446	ALL	487740.1	3616198	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03
1447	ALL	487990.1	3616198	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03
1448	ALL	488040.1	3616198	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03
1449	ALL	488090.1	3616198	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
1450	ALL	488140.1	3616198	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
1451	ALL	488190.1	3616198	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
1452	ALL	488240.1	3616198	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
1453	ALL	488290.1	3616198	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
1454	ALL	488340.1	3616198	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
1455	ALL	488390.1	3616198	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06

1469	ALL	488190.1	3616248	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03
1470	ALL	488240.1	3616248	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
1471	ALL	488290.1	3616248	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
1472	ALL	488340.1	3616248	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
1473	ALL	488390.1	3616248	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
1474	ALL	488440.1	3616248	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
1475	ALL	488490.1	3616248	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-04
1476	ALL	488540.1	3616248	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-04
1477	ALL	488590.1	3616248	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-04
1478	ALL	487690.1	3616298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-03
1479	ALL	487740.1	3616298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-03
1480	ALL	487790.1	3616298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-03
1481	ALL	487840.1	3616298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03
1482	ALL	487890.1	3616298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-03
1483	ALL	487940.1	3616298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03
1484	ALL	487990.1	3616298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03
1485	ALL	488040.1	3616298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
1486	ALL	488090.1	3616298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
1487	ALL	488140.1	3616298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03
1488	ALL	488190.1	3616298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
1489	ALL	488240.1	3616298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
1490	ALL	488290.1	3616298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
1491	ALL	488340.1	3616298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
1492	ALL	488390.1	3616298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
1493	ALL	488440.1	3616298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
1494	ALL	488490.1	3616298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-04
1495	ALL	488540.1	3616298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-04
1496	ALL	488590.1	3616298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-04
1497	ALL	487690.1	3616348	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-03
1498	ALL	487740.1	3616348	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-03
1499	ALL	487790.1	3616348	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-03
1500	ALL	487840.1	3616348	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03
1501	ALL	487890.1	3616348	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03
1502	ALL	487940.1	3616348	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03
1503	ALL	487990.1	3616348	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03
1504	ALL	488040.1	3616348	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03
1505	ALL	488090.1	3616348	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03
1506	ALL	488140.1	3616348	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
1507	ALL	488190.1	3616348	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03
1508	ALL	488240.1	3616348	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
1509	ALL	488290.1	3616348	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
1510	ALL	488340.1	3616348	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
1511	ALL	488390.1	3616348	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03
1512	ALL	488440.1	3616348	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
1513	ALL	488490.1	3616348	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03
1514	ALL	488540.1	3616348	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-04
1515	ALL	488590.1	3616348	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-04
1516	ALL	487640.1	3616398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-03
1517	ALL	487690.1	3616398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-03
1518	ALL	487740.1	3616398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-03
1519	ALL	487790.1	3616398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-03
1520	ALL	487840.1	3616398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-03
1521	ALL	487890.1	3616398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03
1522	ALL	487940.1	3616398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
1523	ALL	487990.1	3616398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03
1524	ALL	488040.1	3616398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03
1525	ALL	488090.1	3616398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
1526	ALL	488140.1	3616398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
1527	ALL	488190.1	3616398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03
1528	ALL	488240.1	3616398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
1529	ALL	488290.1	3616398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
1530	ALL	488340.1	3616398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
1531	ALL	488390.1	3616398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
1532	ALL	488440.1	3616398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
1533	ALL	488490.1	3616398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
1534	ALL	488540.1	3616398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-04
1535	ALL	488590.1	3616398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-04
1536	ALL	487590.1	3616448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-03
1537	ALL	487640.1	3616448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-03
1538	ALL	487690.1	3616448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-03
1539	ALL	487740.1	3616448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-03
1540	ALL	487790.1	3616448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-03
1541	ALL	487840.1	3616448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-03
1542	ALL	487890.1	3616448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03
1543	ALL	487940.1	3616448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03
1544	ALL	487990.1	3616448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03
1545	ALL	488040.1	3616448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03
1546	ALL	488090.1	3616448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03
1547	ALL	488140.1	3616448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
1548	ALL	488190.1	3616448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03
1549	ALL	488240.1	3616448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
1550	ALL	488290.1	3616448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
1551	ALL	488340.1	3616448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
1552	ALL	488390.1	3616448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
1553	ALL	488440.1	3616448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
1554	ALL	488490.1	3616448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
1555	ALL	488540.1	3616448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-04
1556	ALL	488590.1	3616448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-04
1557	ALL	487540.1	3616498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-03
1558	ALL	487590.1	3616498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-03
1559	ALL	487640.1	3616498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-03
1560	ALL	487690.1	3616498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-03
1561	ALL	487740.1	3616498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-03
1562	ALL	487790.1	3616498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-03
1563	ALL	487840.1	3616498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-03
1564	ALL	487890.1	3616498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03
1565	ALL	487940.1	3616498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1574	ALL	488390.1	3616498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
1575	ALL	488440.1	3616498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
1576	ALL	488490.1	3616498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
1577	ALL	488540.1	3616498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-04
1578	ALL	488590.1	3616498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-04
1579	ALL	484613	3614430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
1580	ALL	484663	3614430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
1581	ALL	484713	3614430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04
1582	ALL	484763	3614430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04
1583	ALL	484813	3614430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
1584	ALL	484863	3614430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
1585	ALL	484913	3614430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
1586	ALL	484963	3614430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04
1587	ALL	484563	3614480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
1588	ALL	484613	3614480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
1589	ALL	484663	3614480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04
1590	ALL	484713	3614480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04
1591	ALL	484763	3614480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
1592	ALL	484813	3614480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04
1593	ALL	484863	3614480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04
1594	ALL	484913	3614480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04
1595	ALL	484963	3614480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04
1596	ALL	484513	3614530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
1597	ALL	484563	3614530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
1598	ALL	484613	3614530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04
1599	ALL	484663	3614530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04
1600	ALL	484713	3614530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
1601	ALL	484763	3614530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04
1602	ALL	484813	3614530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04
1603	ALL	484863	3614530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04
1604	ALL	484913	3614530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04
1605	ALL	484963	3614530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04
1606	ALL	484463	3614580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
1607	ALL	484513	3614580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04
1608	ALL	484563	3614580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
1609	ALL	484613	3614580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04
1610	ALL	484663	3614580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
1611	ALL	484713	3614580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04
1612	ALL	484763	3614580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
1613	ALL	484813	3614580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04
1614	ALL	484863	3614580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04
1615	ALL	484913	3614580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04
1616	ALL	484963	3614580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04
1617	ALL	484413	3614630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04
1618	ALL	484463	3614630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
1619	ALL	484513	3614630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
1620	ALL	484563	3614630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04
1621	ALL	484613	3614630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
1622	ALL	484663	3614630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
1623	ALL	484713	3614630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
1624	ALL	484763	3614630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04
1625	ALL	484813	3614630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04
1626	ALL	484863	3614630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04
1627	ALL	484913	3614630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04
1628	ALL	484963	3614630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04
1629	ALL	484413	3614680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
1630	ALL	484463	3614680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04
1631	ALL	484513	3614680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
1632	ALL	484563	3614680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
1633	ALL	484613	3614680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04
1634	ALL	484663	3614680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
1635	ALL	484713	3614680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04
1636	ALL	484763	3614680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
1637	ALL	484813	3614680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04
1638	ALL	484863	3614680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04
1639	ALL	484913	3614680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04
1640	ALL	484963	3614680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04
1641	ALL	484363	3614730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
1642	ALL	484413	3614730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
1643	ALL	484463	3614730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04
1644	ALL	484513	3614730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04
1645	ALL	484563	3614730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
1646	ALL	484613	3614730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04
1647	ALL	484663	3614730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
1648	ALL	484713	3614730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04
1649	ALL	484763	3614730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
1650	ALL	484813	3614730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04
1651	ALL	484863	3614730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04
1652	ALL	484913	3614730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04
1653	ALL	484963	3614730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04
1654	ALL	484313	3614780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04
1655	ALL	484363	3614780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04
1656	ALL	484413	3614780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
1657	ALL	484463	3614780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04
1658	ALL	484513	3614780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
1659	ALL	484563	3614780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04
1660	ALL	484613	3614780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
1661	ALL	484663	3614780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04
1662	ALL	484713	3614780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04
1663	ALL	484763	3614780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04
1664	ALL	484813	3614780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04
1665	ALL	484863	3614780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04
1666	ALL	484913	3614780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04
1667	ALL	484963	3614780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04
1668	ALL	484263	3614830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04
1669	ALL	484313	3614830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
1670	ALL	484363	3614830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04
1671	ALL	484413	3614830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00

1679	ALL	484813	3614830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04
1680	ALL	484863	3614830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04
1681	ALL	484913	3614830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04
1682	ALL	484963	3614830	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04
1683	ALL	484213	3614880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
1684	ALL	484263	3614880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
1685	ALL	484313	3614880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
1686	ALL	484363	3614880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04
1687	ALL	484413	3614880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
1688	ALL	484463	3614880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04
1689	ALL	484513	3614880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
1690	ALL	484563	3614880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04
1691	ALL	484613	3614880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04
1692	ALL	484663	3614880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04
1693	ALL	484713	3614880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04
1694	ALL	484763	3614880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04
1695	ALL	484813	3614880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04
1696	ALL	484863	3614880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04
1697	ALL	484913	3614880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04
1698	ALL	484963	3614880	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04
1699	ALL	484163	3614930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
1700	ALL	484213	3614930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04
1701	ALL	484263	3614930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04
1702	ALL	484313	3614930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
1703	ALL	484363	3614930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04
1704	ALL	484413	3614930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
1705	ALL	484463	3614930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
1706	ALL	484513	3614930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
1707	ALL	484563	3614930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04
1708	ALL	484613	3614930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
1709	ALL	484663	3614930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04
1710	ALL	484713	3614930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04
1711	ALL	484763	3614930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04
1712	ALL	484813	3614930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04
1713	ALL	484863	3614930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04
1714	ALL	484913	3614930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04
1715	ALL	484963	3614930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04
1716	ALL	485013	3614930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04
1717	ALL	484113	3614980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04
1718	ALL	484163	3614980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
1719	ALL	484213	3614980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
1720	ALL	484263	3614980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04
1721	ALL	484313	3614980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
1722	ALL	484363	3614980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
1723	ALL	484413	3614980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04
1724	ALL	484463	3614980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04
1725	ALL	484513	3614980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04
1726	ALL	484563	3614980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04
1727	ALL	484613	3614980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04
1728	ALL	484663	3614980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04
1729	ALL	484713	3614980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04
1730	ALL	484763	3614980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04
1731	ALL	484813	3614980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04
1732	ALL	484863	3614980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04
1733	ALL	484913	3614980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04
1734	ALL	484963	3614980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04
1735	ALL	485013	3614980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04
1736	ALL	484113	3615030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
1737	ALL	484163	3615030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
1738	ALL	484213	3615030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
1739	ALL	484263	3615030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04
1740	ALL	484313	3615030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04
1741	ALL	484363	3615030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04
1742	ALL	484413	3615030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
1743	ALL	484463	3615030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04
1744	ALL	484513	3615030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04
1745	ALL	484563	3615030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04
1746	ALL	484613	3615030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04
1747	ALL	484663	3615030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04
1748	ALL	484713	3615030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04
1749	ALL	484763	3615030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04
1750	ALL	484813	3615030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-04
1751	ALL	484863	3615030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04
1752	ALL	484913	3615030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04
1753	ALL	484963	3615030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04
1754	ALL	485013	3615030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04
1755	ALL	485063	3615030	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04
1756	ALL	484113	3615080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04
1757	ALL	484163	3615080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
1758	ALL	484213	3615080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
1759	ALL	484263	3615080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04
1760	ALL	484313	3615080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
1761	ALL	484363	3615080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04
1762	ALL	484413	3615080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
1763	ALL	484463	3615080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04
1764	ALL	484513	3615080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
1765	ALL	484563	3615080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04
1766	ALL	484613	3615080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04
1767	ALL	484663	3615080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04
1768	ALL	484713	3615080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04
1769	ALL	484763	3615080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04
1770	ALL	484813	3615080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04
1771	ALL	484863	3615080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04
1772	ALL	484913	3615080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04
1773	ALL	484963	3615080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04
1774	ALL	485013	3615080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-04
1775	ALL	485063	3615080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-04
1776	ALL	485113	3615080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	0.00E

1784	ALL	484463	3615130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04
1785	ALL	484513	3615130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04
1786	ALL	484563	3615130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04
1787	ALL	484613	3615130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04
1788	ALL	484663	3615130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04
1789	ALL	484713	3615130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04
1790	ALL	484763	3615130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04
1791	ALL	484813	3615130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04
1792	ALL	484863	3615130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04
1793	ALL	484913	3615130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04
1794	ALL	484963	3615130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04
1795	ALL	485013	3615130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04
1796	ALL	485063	3615130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04
1797	ALL	485113	3615130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-04
1798	ALL	485163	3615130	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04
1799	ALL	484113	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
1800	ALL	484163	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
1801	ALL	484213	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04
1802	ALL	484263	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
1803	ALL	484313	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
1804	ALL	484363	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
1805	ALL	484413	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
1806	ALL	484463	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04
1807	ALL	484513	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04
1808	ALL	484563	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04
1809	ALL	484613	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04
1810	ALL	484663	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04
1811	ALL	484713	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-04
1812	ALL	484763	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04
1813	ALL	484813	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04
1814	ALL	484863	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04
1815	ALL	484913	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04
1816	ALL	484963	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04
1817	ALL	485013	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04
1818	ALL	485063	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04
1819	ALL	485113	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04
1820	ALL	485163	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04
1821	ALL	485213	3615180	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04
1822	ALL	484113	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
1823	ALL	484163	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04
1824	ALL	484213	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
1825	ALL	484263	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04
1826	ALL	484313	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04
1827	ALL	484363	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04
1828	ALL	484413	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
1829	ALL	484463	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04
1830	ALL	484513	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04
1831	ALL	484563	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04
1832	ALL	484613	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04
1833	ALL	484663	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04
1834	ALL	484713	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04
1835	ALL	484763	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04
1836	ALL	484813	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04
1837	ALL	484863	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04
1838	ALL	484913	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-04
1839	ALL	484963	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-04
1840	ALL	485013	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04
1841	ALL	485063	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04
1842	ALL	485113	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04
1843	ALL	485163	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-04
1844	ALL	485213	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04
1845	ALL	485263	3615230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04
1846	ALL	484113	3615280	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
1847	ALL	484163	3615280	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04
1848	ALL	484213	3615280	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
1849	ALL	484263	3615280	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
1850	ALL	484313	3615280	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04
1851	ALL	484613	3615280	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04
1852	ALL	484663	3615280	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04
1853	ALL	484713	3615280	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04
1854	ALL	484763	3615280	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04
1855	ALL	484813	3615280	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04
1856	ALL	484863	3615280	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04
1857	ALL	484913	3615280	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04
1858	ALL	484963	3615280	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04
1859	ALL	485013	3615280	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04
1860	ALL	485063	3615280	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-04
1861	ALL	485113	3615280	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-04
1862	ALL	485163	3615280	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04
1863	ALL	485213	3615280	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04
1864	ALL	485263	3615280	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04
1865	ALL	485313	3615280	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04
1866	ALL	484113	3615330	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04
1867	ALL	484163	3615330	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
1868	ALL	484213	3615330	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04
1869	ALL	484663	3615330	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04
1870	ALL	484713	3615330	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04
1871	ALL	484763	3615330	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04
1872	ALL	484813	3615330	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04
1873	ALL	484863	3615330	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04
1874	ALL	484913	3615330	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04
1875	ALL	484963	3615330	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04
1876	ALL	485013	3615330	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04
1877	ALL	485063	3615330	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04
1878	ALL	485113	3615330	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04
1879	ALL	485163	3615330	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04
1880	ALL	485213	3615330	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04
1881	ALL	485263	3615330	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04	0.00E+00	0.00E+00	0.00E

1889	ALL	484863	3615380	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-04
1890	ALL	484913	3615380	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04
1891	ALL	484963	3615380	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04
1892	ALL	485013	3615380	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04
1893	ALL	485063	3615380	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04
1894	ALL	485113	3615380	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-04
1895	ALL	485163	3615380	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04
1896	ALL	485213	3615380	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-04
1897	ALL	485263	3615380	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04
1898	ALL	485313	3615380	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-04
1899	ALL	485363	3615380	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-04
1900	ALL	485413	3615380	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-04
1901	ALL	484763	3615430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04
1902	ALL	484813	3615430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04
1903	ALL	484863	3615430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-04
1904	ALL	484913	3615430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04
1905	ALL	484963	3615430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04
1906	ALL	485013	3615430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-04
1907	ALL	485063	3615430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04
1908	ALL	485113	3615430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-04
1909	ALL	485163	3615430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04
1910	ALL	485213	3615430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-04
1911	ALL	485263	3615430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04
1912	ALL	485313	3615430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-04
1913	ALL	485363	3615430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-04
1914	ALL	485413	3615430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04
1915	ALL	485463	3615430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04
1916	ALL	485513	3615430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04
1917	ALL	484813	3615480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04
1918	ALL	484863	3615480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04
1919	ALL	484913	3615480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04
1920	ALL	484963	3615480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04
1921	ALL	485013	3615480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04
1922	ALL	485063	3615480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04
1923	ALL	485113	3615480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-04
1924	ALL	485163	3615480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-04
1925	ALL	485213	3615480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-04
1926	ALL	485263	3615480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04
1927	ALL	485313	3615480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-04
1928	ALL	485363	3615480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-04
1929	ALL	485413	3615480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-04
1930	ALL	485463	3615480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-04
1931	ALL	485513	3615480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-04
1932	ALL	485563	3615480	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-04
1933	ALL	484863	3615530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04
1934	ALL	484913	3615530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-04
1935	ALL	484963	3615530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-04
1936	ALL	485013	3615530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04
1937	ALL	485063	3615530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-04
1938	ALL	485113	3615530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04
1939	ALL	485163	3615530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04
1940	ALL	485213	3615530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-04
1941	ALL	485263	3615530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-04
1942	ALL	485313	3615530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-04
1943	ALL	485363	3615530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04
1944	ALL	485413	3615530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-04
1945	ALL	485463	3615530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-04
1946	ALL	485513	3615530	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-04
1947	ALL	484913	3615580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04
1948	ALL	484963	3615580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04
1949	ALL	485013	3615580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04
1950	ALL	485063	3615580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04
1951	ALL	485113	3615580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-04
1952	ALL	485163	3615580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-04
1953	ALL	485213	3615580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-04
1954	ALL	485263	3615580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-04
1955	ALL	485313	3615580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-04
1956	ALL	485363	3615580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-04
1957	ALL	485413	3615580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04
1958	ALL	485463	3615580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-04
1959	ALL	484963	3615630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-04
1960	ALL	485013	3615630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04
1961	ALL	485063	3615630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-04
1962	ALL	485113	3615630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-04
1963	ALL	485163	3615630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-04
1964	ALL	485213	3615630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-04
1965	ALL	485263	3615630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-04
1966	ALL	485313	3615630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-04
1967	ALL	485363	3615630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-04
1968	ALL	485413	3615630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-04
1969	ALL	485013	3615680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04
1970	ALL	485063	3615680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-04
1971	ALL	485113	3615680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04
1972	ALL	485163	3615680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-04
1973	ALL	485213	3615680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-04
1974	ALL	485263	3615680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04
1975	ALL	485313	3615680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-04
1976	ALL	485363	3615680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04
1977	ALL	485413	3615680	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-04
1978	ALL	485063	3615730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04
1979	ALL	485113	3615730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04
1980	ALL	485163	3615730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-04
1981	ALL	485213	3615730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04
1982	ALL	485263	3615730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04
1983	ALL	485313	3615730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-04
1984	ALL	485363	3615730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-04
1985	ALL	485113	3615780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04
1986	ALL	485163	3615780	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-04	0.00E+00	0.00E+00	0.00E

1994	ALL	485552.3	3616096	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-04
1995	ALL	486018.2	3615678	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-04
1996	ALL	486003.2	3616495	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-03
1997	ALL	486759.7	3615938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-03
1998	ALL	486118.4	3616109	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
1999	ALL	486519.2	3615658	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-03
2000	ALL	487082.4	3618053	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
2001	ALL	487132.2	3618053	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
2002	ALL	487182.1	3618053	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
2003	ALL	487232	3618053	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
2004	ALL	487281.9	3618053	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
2005	ALL	486424.8	3617999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04
2006	ALL	486474.7	3617999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04
2007	ALL	486524.6	3617999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04
2008	ALL	486574.5	3617999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04
2009	ALL	486624.4	3617999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04
2010	ALL	486674.3	3617999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
2011	ALL	486724.1	3617999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
2012	ALL	486774	3617999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
2013	ALL	486823.9	3617999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
2014	ALL	486873.8	3617999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
2015	ALL	486923.7	3617999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
2016	ALL	486973.6	3617999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
2017	ALL	487023.5	3617999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
2018	ALL	487082.4	3618103	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
2019	ALL	487132.2	3618103	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
2020	ALL	487182.1	3618103	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
2021	ALL	486374.9	3618049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04
2022	ALL	486424.8	3618049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04
2023	ALL	486474.7	3618049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04
2024	ALL	486524.6	3618049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04
2025	ALL	486574.5	3618049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
2026	ALL	486624.4	3618049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
2027	ALL	486674.3	3618049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
2028	ALL	486724.1	3618049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
2029	ALL	486774	3618049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
2030	ALL	486823.9	3618049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
2031	ALL	486873.8	3618049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
2032	ALL	486923.7	3618049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
2033	ALL	486973.6	3618049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
2034	ALL	487023.5	3618049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
2035	ALL	487082.4	3618153	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
2036	ALL	487132.2	3618153	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
2037	ALL	486325	3618099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04
2038	ALL	486374.9	3618099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04
2039	ALL	486424.8	3618099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
2040	ALL	486474.7	3618099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
2041	ALL	486524.6	3618099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
2042	ALL	486574.5	3618099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
2043	ALL	486624.4	3618099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
2044	ALL	486674.3	3618099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
2045	ALL	486724.1	3618099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
2046	ALL	486774	3618099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
2047	ALL	486823.9	3618099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
2048	ALL	486873.8	3618099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
2049	ALL	486923.7	3618099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
2050	ALL	486973.6	3618099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
2051	ALL	487023.5	3618099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
2052	ALL	487082.4	3618203	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
2053	ALL	486275.1	3618149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
2054	ALL	486325	3618149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
2055	ALL	486374.9	3618149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
2056	ALL	486424.8	3618149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04
2057	ALL	486474.7	3618149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
2058	ALL	486524.6	3618149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04
2059	ALL	486574.5	3618149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04
2060	ALL	486624.4	3618149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
2061	ALL	486674.3	3618149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
2062	ALL	486724.1	3618149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
2063	ALL	486774	3618149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
2064	ALL	486823.9	3618149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
2065	ALL	486873.8	3618149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
2066	ALL	486923.7	3618149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
2067	ALL	486973.6	3618149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
2068	ALL	487023.5	3618149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
2069	ALL	486225.2	3618199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04
2070	ALL	486275.1	3618199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
2071	ALL	486325	3618199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
2072	ALL	486374.9	3618199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
2073	ALL	486424.8	3618199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
2074	ALL	486474.7	3618199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
2075	ALL	486524.6	3618199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
2076	ALL	486574.5	3618199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
2077	ALL	486624.4	3618199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04
2078	ALL	486674.3	3618199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
2079	ALL	486724.1	3618199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
2080	ALL	486774	3618199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
2081	ALL	486823.9	3618199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
2082	ALL	486873.8	3618199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
2083	ALL	486923.7	3618199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
2084	ALL	486973.6	3618199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
2085	ALL	487023.5	3618199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00

2099	ALL	486823.9	3618249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
2100	ALL	486873.8	3618249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
2101	ALL	486923.7	3618249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
2102	ALL	486973.6	3618249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
2103	ALL	487023.5	3618249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
2104	ALL	486125.5	3618299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04
2105	ALL	486175.4	3618299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
2106	ALL	486225.2	3618299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
2107	ALL	486275.1	3618299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
2108	ALL	486325	3618299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
2109	ALL	486374.9	3618299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
2110	ALL	486424.8	3618299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
2111	ALL	486474.7	3618299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
2112	ALL	486524.6	3618299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
2113	ALL	486574.5	3618299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
2114	ALL	486624.4	3618299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
2115	ALL	486674.3	3618299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
2116	ALL	486724.1	3618299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
2117	ALL	486774	3618299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
2118	ALL	486823.9	3618299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
2119	ALL	486873.8	3618299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
2120	ALL	486923.7	3618299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
2121	ALL	486125.5	3618349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04
2122	ALL	486175.4	3618349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
2123	ALL	486225.2	3618349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
2124	ALL	486275.1	3618349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
2125	ALL	486325	3618349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
2126	ALL	486374.9	3618349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
2127	ALL	486424.8	3618349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
2128	ALL	486474.7	3618349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
2129	ALL	486524.6	3618349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
2130	ALL	486574.5	3618349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
2131	ALL	486624.4	3618349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
2132	ALL	486674.3	3618349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
2133	ALL	486724.1	3618349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
2134	ALL	486774	3618349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
2135	ALL	486823.9	3618349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
2136	ALL	486873.8	3618349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
2137	ALL	486125.5	3618399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
2138	ALL	486175.4	3618399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04
2139	ALL	486225.2	3618399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
2140	ALL	486275.1	3618399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
2141	ALL	486325	3618399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
2142	ALL	486374.9	3618399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
2143	ALL	486424.8	3618399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
2144	ALL	486474.7	3618399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
2145	ALL	486524.6	3618399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
2146	ALL	486574.5	3618399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
2147	ALL	486624.4	3618399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
2148	ALL	486674.3	3618399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
2149	ALL	486724.1	3618399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
2150	ALL	486774	3618399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
2151	ALL	486823.9	3618399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
2152	ALL	486125.5	3618449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04
2153	ALL	486175.4	3618449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
2154	ALL	486225.2	3618449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
2155	ALL	486275.1	3618449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
2156	ALL	486325	3618449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
2157	ALL	486374.9	3618449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
2158	ALL	486424.8	3618449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
2159	ALL	486474.7	3618449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
2160	ALL	486524.6	3618449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
2161	ALL	486574.5	3618449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
2162	ALL	486624.4	3618449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
2163	ALL	486674.3	3618449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
2164	ALL	486724.1	3618449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
2165	ALL	486774	3618449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
2166	ALL	486125.5	3618499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
2167	ALL	486175.4	3618499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
2168	ALL	486225.2	3618499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
2169	ALL	486275.1	3618499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
2170	ALL	486325	3618499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
2171	ALL	486374.9	3618499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
2172	ALL	486424.8	3618499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
2173	ALL	486474.7	3618499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
2174	ALL	486524.6	3618499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
2175	ALL	486574.5	3618499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
2176	ALL	486624.4	3618499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
2177	ALL	486674.3	3618499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
2178	ALL	486125.5	3618549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04
2179	ALL	486175.4	3618549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
2180	ALL	486225.2	3618549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
2181	ALL	486275.1	3618549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
2182	ALL	486325	3618549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04
2183	ALL	486374.9	3618549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
2184	ALL	486424.8	3618549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
2185	ALL	486474.7	3618549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
2186	ALL	486524.6	3618549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
2187	ALL	486574.5	3618549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
2188	ALL	486624.4	3618549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
2189	ALL	485782.1	3617697	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-04
2190	ALL	486118	3618113	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04
2191	ALL	487046.4	3616930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-02
2192	ALL	487001.9	3616866	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-02
2193	ALL	487027.9	3616813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-02
2194	ALL	487059.3	3616825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-02
2195	ALL	487097.3	3616749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-02	0.00E+00	0.00E

2204	ALL	487197.4	3616436	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-02
2205	ALL	487083.9	3616471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-02
2206	ALL	487021.6	3616519	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-02
2207	ALL	486926.8	3616572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-02
2208	ALL	486895.6	3616630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-02
2209	ALL	486821.4	3616675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02
2210	ALL	486753.4	3616757	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-03
2211	ALL	486732.1	3616765	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-03
2212	ALL	486714.3	3616772	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-03
2213	ALL	486614.1	3616565	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-03
2214	ALL	486419.3	3616678	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-03
2215	ALL	486594.8	3616964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-03
2216	ALL	486605.4	3616981	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-03
2217	ALL	486707.8	3616937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-03
2218	ALL	486905.6	3617015	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-02
2219	ALL	487046.4	3616930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-02

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** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 1/7/2022
** File: C:\Users\Brenda.Hom\OneDrive - Ascent Environmental\Brenda.Hom\My
Documents\NASSCO - San Diego Port\NASSCO_PM25\NASSCO_PM25.ADI
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**
**
**************************************
** AERMOD Control Pathway
**************************************
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CO STARTING
   TITLEONE C:\Users\chris.lovett\OneDrive - Ascent Environmental\Desktop\NASSCO
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   POLLUTID PM_2.5
   FLAGPOLE 1.80
   RUNORNOT RUN
   ERRORFIL NASSCO_PM25.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Haul Route to I-5 (a)
** PREFIX HAUL
** Length of Side = 8.44
** Configuration = Adjacent
** Emission Rate = 0.0025974026
** Vertical Dimension = 4.14
** SZINIT = 1.93
** Nodes = 7
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** 487456.897, 3617477.031, 13.00, 2.55, 3.93
** 487468.221, 3617038.249, 5.00, 2.55, 3.93
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** 486945.928, 3617225.085, 7.72, 2.55, 3.93
** 486801.555, 3617335.488, 8.93, 2.55, 3.93
** 486571.781, 3617015.675, 1.97, 2.55, 3.93
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   LOCATION HAUL0006     VOLUME   487380.354 3617536.352 13.74
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LOCATION HAUL0190     VOLUME   486639.264 3617109.602 4.00
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LOCATION HAUL0193     VOLUME   486624.490 3617089.039 4.00
LOCATION HAUL0194     VOLUME   486619.566 3617082.185 3.92
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   LOCATION HAUL0199     VOLUME   486594.943 3617047.913 1.83
   LOCATION HAUL0200     VOLUME   486590.018 3617041.059 1.72
   LOCATION HAUL0201     VOLUME   486585.094 3617034.204 1.76
   LOCATION HAUL0202     VOLUME   486580.169 3617027.350 1.94
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   LOCATION VOL32        VOLUME     487157.296  3616726.388        2.250
   LOCATION VOL33        VOLUME     487182.100  3616732.267        2.810
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LOCATION VOL48        VOLUME     487233.782  3616675.109        2.310
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LOCATION VOL71        VOLUME     487408.665  3616744.653        3.000
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LOCATION VOL84        VOLUME     487409.142  3616701.585        2.190
LOCATION VOL85        VOLUME     487432.188  3616706.813        2.360
LOCATION VOL86        VOLUME     487140.509  3616630.677        0.470
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LOCATION VOL97	VOLUME	487388.088	3616675.593	0.700
LOCATION VOL98	VOLUME	487407.096	3616679.086	0.880
LOCATION VOL99	VOLUME	487430.142	3616684.313	1.220
LOCATION VOL103	VOLUME	487208.690	3616625.905	0.000
LOCATION VOL110	VOLUME	487072.791	3616631.929	2.070
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LOCATION VOL112	VOLUME	487117.244	3616645.110	1.960
LOCATION VOL119	VOLUME	487115.199	3616622.610	1.230
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LOCATION VOL159	VOLUME	487005.683	3616887.296	2.220
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LOCATION VOL163	VOLUME	487007.132	3616839.955	1.920

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   LOCATION VOL189       VOLUME     486933.462  3616891.384        0.000
   LOCATION VOL190       VOLUME     486931.245  3616876.606        0.000
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   LOCATION VOL193       VOLUME     486918.683  3616831.531        0.000
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   LOCATION VOL204       VOLUME     487094.547  3616725.865        0.000
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** LINE VOLUME Source ID = SLINE2
** DESCRSRC Haul Route to I-5 (b)
** PREFIX
** Length of Side = 8.44
** Configuration = Adjacent
** Emission Rate = 0.0025974026
** Vertical Dimension = 4.14
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   LOCATION L0001362     VOLUME   486594.808 3616999.020 2.95
   LOCATION L0001363     VOLUME   486601.676 3616994.114 2.98
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Haul Route to I-5 (c)
** PREFIX
** Length of Side = 8.44
** Configuration = Adjacent
** Emission Rate = 0.0025974026
** Vertical Dimension = 4.14
** SZINIT = 1.93
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   SRCPARAM VOL193       0.0025974026     5.000     9.302     1.000
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   SRCPARAM VOL211       0.0025974026     5.000     9.302     1.000
   SRCPARAM VOL212       0.0025974026     5.000     9.302     1.000
   SRCPARAM VOL213       0.0025974026     5.000     9.302     1.000
   SRCPARAM VOL214       0.0025974026     5.000     9.302     1.000
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0001359     0.0004329004      2.55      3.93      1.93
   SRCPARAM L0001360     0.0004329004      2.55      3.93      1.93
   SRCPARAM L0001361     0.0004329004      2.55      3.93      1.93
   SRCPARAM L0001362     0.0004329004      2.55      3.93      1.93
   SRCPARAM L0001363     0.0004329004      2.55      3.93      1.93
   SRCPARAM L0001364     0.0004329004      2.55      3.93      1.93
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   SRCPARAM VOL215       0.0025974026     5.000     9.302     1.000
   SRCPARAM VOL216       0.0025974026     5.000     9.302     1.000
** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0001538     0.0000150139      2.55      3.93      1.93
   SRCPARAM L0001539     0.0000150139      2.55      3.93      1.93
   SRCPARAM L0001540     0.0000150139      2.55      3.93      1.93
   SRCPARAM L0001541     0.0000150139      2.55      3.93      1.93
   SRCPARAM L0001542     0.0000150139      2.55      3.93      1.93
   SRCPARAM L0001543     0.0000150139      2.55      3.93      1.93
   SRCPARAM L0001544     0.0000150139      2.55      3.93      1.93
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   SRCPARAM L0001551     0.0000150139      2.55      3.93      1.93
   SRCPARAM L0001552     0.0000150139      2.55      3.93      1.93
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SRCPARAM L0001553     0.0000150139      2.55      3.93      1.93
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SRCPARAM VOL330       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL331       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL332       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL333       0.0025974026     5.000     9.302     1.000
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SRCPARAM VOL334       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL335       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL336       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL337       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL338       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL339       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL340       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL341       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL342       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL343       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL344       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL345       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL346       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL347       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL348       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL349       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL350       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL351       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL352       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL353       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL354       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL355       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL356       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL358       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL359       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL360       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL361       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL362       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL366       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL367       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL371       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL372       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL376       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL377       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL378       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL379       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL380       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL381       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL382       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL383       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL384       0.0025974026     5.000     9.302     1.000
SRCPARAM VOL385       0.0025974026     5.000     9.302     1.000
SRCGROUP Haul     HAUL0001 HAUL0002 HAUL0003 HAUL0004 HAUL0005 HAUL0006
SRCGROUP Haul     HAUL0007 HAUL0008 HAUL0009 HAUL0010 HAUL0011 HAUL0012
SRCGROUP Haul     HAUL0013 HAUL0014 HAUL0015 HAUL0016 HAUL0017 HAUL0018
SRCGROUP Haul     HAUL0019 HAUL0020 HAUL0021 HAUL0022 HAUL0023 HAUL0024
SRCGROUP Haul     HAUL0025 HAUL0026 HAUL0027 HAUL0028 HAUL0029 HAUL0030
SRCGROUP Haul     HAUL0031 HAUL0032 HAUL0033 HAUL0034 HAUL0035 HAUL0036
SRCGROUP Haul     HAUL0037 HAUL0038 HAUL0039 HAUL0040 HAUL0041 HAUL0042
SRCGROUP Haul     HAUL0043 HAUL0044 HAUL0045 HAUL0046 HAUL0047 HAUL0048
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SRCGROUP Haul     HAUL0049 HAUL0050 HAUL0051 HAUL0052 HAUL0053 HAUL0054
SRCGROUP Haul     HAUL0055 HAUL0056 HAUL0057 HAUL0058 HAUL0059 HAUL0060
SRCGROUP Haul     HAUL0061 HAUL0062 HAUL0063 HAUL0064 HAUL0065 HAUL0066
SRCGROUP Haul     HAUL0067 HAUL0068 HAUL0069 HAUL0070 HAUL0071 HAUL0072
SRCGROUP Haul     HAUL0073 HAUL0074 HAUL0075 HAUL0076 HAUL0077 HAUL0078
SRCGROUP Haul     HAUL0079 HAUL0080 HAUL0081 HAUL0082 HAUL0083 HAUL0084
SRCGROUP Haul     HAUL0085 HAUL0086 HAUL0087 HAUL0088 HAUL0089 HAUL0090
SRCGROUP Haul     HAUL0091 HAUL0092 HAUL0093 HAUL0094 HAUL0095 HAUL0096
SRCGROUP Haul     HAUL0097 HAUL0098 HAUL0099 HAUL0100 HAUL0101 HAUL0102
SRCGROUP Haul     HAUL0103 HAUL0104 HAUL0105 HAUL0106 HAUL0107 HAUL0108
SRCGROUP Haul     HAUL0109 HAUL0110 HAUL0111 HAUL0112 HAUL0113 HAUL0114
SRCGROUP Haul     HAUL0115 HAUL0116 HAUL0117 HAUL0118 HAUL0119 HAUL0120
SRCGROUP Haul     HAUL0121 HAUL0122 HAUL0123 HAUL0124 HAUL0125 HAUL0126
SRCGROUP Haul     HAUL0127 HAUL0128 HAUL0129 HAUL0130 HAUL0131 HAUL0132
SRCGROUP Haul     HAUL0133 HAUL0134 HAUL0135 HAUL0136 HAUL0137 HAUL0138
SRCGROUP Haul     HAUL0139 HAUL0140 HAUL0141 HAUL0142 HAUL0143 HAUL0144
SRCGROUP Haul     HAUL0145 HAUL0146 HAUL0147 HAUL0148 HAUL0149 HAUL0150
SRCGROUP Haul     HAUL0151 HAUL0152 HAUL0153 HAUL0154 HAUL0155 HAUL0156
SRCGROUP Haul     HAUL0157 HAUL0158 HAUL0159 HAUL0160 HAUL0161 HAUL0162
SRCGROUP Haul     HAUL0163 HAUL0164 HAUL0165 HAUL0166 HAUL0167 HAUL0168
SRCGROUP Haul     HAUL0169 HAUL0170 HAUL0171 HAUL0172 HAUL0173 HAUL0174
SRCGROUP Haul     HAUL0175 HAUL0176 HAUL0177 HAUL0178 HAUL0179 HAUL0180
SRCGROUP Haul     HAUL0181 HAUL0182 HAUL0183 HAUL0184 HAUL0185 HAUL0186
SRCGROUP Haul     HAUL0187 HAUL0188 HAUL0189 HAUL0190 HAUL0191 HAUL0192
SRCGROUP Haul     HAUL0193 HAUL0194 HAUL0195 HAUL0196 HAUL0197 HAUL0198
SRCGROUP Haul     HAUL0199 HAUL0200 HAUL0201 HAUL0202 HAUL0203 L0001359
SRCGROUP Haul     L0001360 L0001361 L0001362 L0001363 L0001364 L0001538
SRCGROUP Haul     L0001539 L0001540 L0001541 L0001542 L0001543 L0001544
SRCGROUP Haul     L0001545 L0001546 L0001547 L0001548 L0001549 L0001550
SRCGROUP Haul     L0001551 L0001552 L0001553 L0001554 L0001555 L0001556
SRCGROUP Haul     L0001557 L0001558 L0001559 L0001560 L0001561 L0001562
SRCGROUP Haul     L0001563 L0001564 L0001565 L0001566 L0001567 L0001568
SRCGROUP Haul     L0001569 L0001570 L0001571 L0001572 L0001573 L0001574
SRCGROUP Haul     L0001575 L0001576 L0001577 L0001578 L0001579 L0001580
SRCGROUP Haul     L0001581 L0001582 L0001583 L0001584 L0001585 L0001586
SRCGROUP Haul     L0001587 L0001588 L0001589 L0001590 L0001591 L0001592
SRCGROUP Haul     L0001593 L0001594 L0001595 L0001596 L0001597 L0001598
SRCGROUP Haul     L0001599 L0001600 L0001601 L0001602 L0001603 L0001604
SRCGROUP Haul     L0001605 L0001606 L0001607 L0001608 L0001609 L0001610
SRCGROUP Haul     L0001611 L0001612 L0001613 L0001614 L0001615 L0001616
SRCGROUP Haul     L0001617 L0001618 L0001619 L0001620 L0001621 L0001622
SRCGROUP Haul     L0001623 L0001624 L0001625 L0001626 L0001627 L0001628
SRCGROUP Haul     L0001629 L0001630 L0001631 L0001632 L0001633 L0001634
SRCGROUP Haul     L0001635 L0001636 L0001637 L0001638 L0001639 L0001640
SRCGROUP Haul     L0001641 L0001642 L0001643 L0001644 L0001645 L0001646
SRCGROUP Haul     L0001647 L0001648 L0001649 L0001650 L0001651 L0001652
SRCGROUP Haul     L0001653 L0001654 L0001655 L0001656 L0001657 L0001658
SRCGROUP Haul     L0001659 L0001660 L0001661 L0001662 L0001663 L0001664
SRCGROUP Haul     L0001665 L0001666 L0001667 L0001668 L0001669 L0001670
SRCGROUP Haul     L0001671 L0001672 L0001673 L0001674 L0001675 L0001676
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   SRCGROUP Haul     L0001677 L0001678 L0001679 L0001680 L0001681 L0001682
   SRCGROUP Haul     L0001683 L0001684 L0001685 L0001686 L0001687 L0001688
   SRCGROUP Haul     L0001689 L0001690 L0001691 L0001692 L0001693 L0001694
   SRCGROUP Haul     L0001695 L0001696 L0001697 L0001698 L0001699 L0001700
   SRCGROUP Haul     L0001701 L0001702 L0001703 L0001704 L0001705 L0001706
   SRCGROUP Haul     L0001707 L0001708 L0001709 L0001710
   SRCGROUP Construc VOL1 VOL2 VOL3 VOL5 VOL6 VOL7 VOL8 VOL9 VOL10 VOL11
   SRCGROUP Construc VOL12 VOL13 VOL14 VOL15 VOL16 VOL17 VOL18 VOL19 VOL20
   SRCGROUP Construc VOL21 VOL22 VOL23 VOL24 VOL25 VOL26 VOL27 VOL28 VOL29
   SRCGROUP Construc VOL30 VOL31 VOL32 VOL33 VOL34 VOL35 VOL36 VOL37 VOL38
   SRCGROUP Construc VOL39 VOL40 VOL41 VOL42 VOL43 VOL44 VOL45 VOL46 VOL47
   SRCGROUP Construc VOL48 VOL49 VOL50 VOL51 VOL52 VOL53 VOL54 VOL55 VOL56
   SRCGROUP Construc VOL57 VOL58 VOL59 VOL60 VOL61 VOL62 VOL63 VOL64 VOL65
   SRCGROUP Construc VOL66 VOL67 VOL68 VOL69 VOL70 VOL71 VOL72 VOL73 VOL74
   SRCGROUP Construc VOL75 VOL76 VOL77 VOL78 VOL79 VOL80 VOL81 VOL82 VOL83
   SRCGROUP Construc VOL84 VOL85 VOL86 VOL87 VOL88 VOL89 VOL90 VOL91 VOL92
   SRCGROUP Construc VOL93 VOL94 VOL95 VOL96 VOL97 VOL98 VOL99 VOL103 VOL110
   SRCGROUP Construc VOL111 VOL112 VOL119 VOL120 VOL121 VOL123 VOL124 VOL125
   SRCGROUP Construc VOL126 VOL132 VOL133 VOL134 VOL135 VOL136 VOL137 VOL138
   SRCGROUP Construc VOL139 VOL140 VOL141 VOL142 VOL143 VOL144 VOL145 VOL146
   SRCGROUP Construc VOL147 VOL148 VOL149 VOL150 VOL151 VOL152 VOL153 VOL154
   SRCGROUP Construc VOL155 VOL156 VOL157 VOL158 VOL159 VOL160 VOL161 VOL162
   SRCGROUP Construc VOL163 VOL164 VOL165 VOL166 VOL167 VOL168 VOL169 VOL170
   SRCGROUP Construc VOL171 VOL172 VOL173 VOL174 VOL175 VOL176 VOL177 VOL178
   SRCGROUP Construc VOL179 VOL180 VOL181 VOL182 VOL185 VOL186 VOL187 VOL188
   SRCGROUP Construc VOL189 VOL190 VOL191 VOL192 VOL193 VOL194 VOL195 VOL204
   SRCGROUP Construc VOL205 VOL206 VOL207 VOL208 VOL209 VOL210 VOL211 VOL212
   SRCGROUP Construc VOL213 VOL214 VOL215 VOL216 VOL217 VOL241 VOL242 VOL243
   SRCGROUP Construc VOL244 VOL245 VOL246 VOL247 VOL248 VOL249 VOL250 VOL251
   SRCGROUP Construc VOL252 VOL253 VOL254 VOL255 VOL256 VOL257 VOL258 VOL259
   SRCGROUP Construc VOL260 VOL262 VOL263 VOL264 VOL265 VOL266 VOL267 VOL268
   SRCGROUP Construc VOL269 VOL270 VOL271 VOL272 VOL273 VOL274 VOL275 VOL276
   SRCGROUP Construc VOL277 VOL278 VOL279 VOL280 VOL281 VOL282 VOL283 VOL284
   SRCGROUP Construc VOL285 VOL286 VOL287 VOL288 VOL289 VOL290 VOL291 VOL292
   SRCGROUP Construc VOL293 VOL294 VOL295 VOL296 VOL297 VOL298 VOL299 VOL300
   SRCGROUP Construc VOL301 VOL302 VOL303 VOL304 VOL305 VOL306 VOL307 VOL308
   SRCGROUP Construc VOL309 VOL310 VOL311 VOL312 VOL313 VOL316 VOL317 VOL318
   SRCGROUP Construc VOL319 VOL320 VOL321 VOL322 VOL323 VOL324 VOL325 VOL326
   SRCGROUP Construc VOL327 VOL328 VOL329 VOL330 VOL331 VOL332 VOL333 VOL334
   SRCGROUP Construc VOL335 VOL336 VOL337 VOL338 VOL339 VOL340 VOL341 VOL342
   SRCGROUP Construc VOL343 VOL344 VOL345 VOL346 VOL347 VOL348 VOL349 VOL350
   SRCGROUP Construc VOL351 VOL352 VOL353 VOL354 VOL355 VOL356 VOL358 VOL359
   SRCGROUP Construc VOL360 VOL361 VOL362 VOL366 VOL367 VOL371 VOL372 VOL376
   SRCGROUP Construc VOL377 VOL378 VOL379 VOL380 VOL381 VOL382 VOL383 VOL384
   SRCGROUP Construc VOL385
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
```

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**************************************
**
**
RE STARTING
   INCLUDED NASSCO_PM25.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE PES_2010_2012_sigma_v19191.SFC
   PROFFILE PES_2010_2012_sigma_v19191.PFL
   SURFDATA 23188 2010 SAN_DIEGO/Perkins_Elementary
   UAIRDATA 3190 2010
   SITEDATA 1010 2010
   PROFBASE 130.0 FEET
   STARTEND 2010 1 1 1 2010 12 31 24
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST NASSCO_PM25.AD\01H1GALL.PLT 31
   PLOTFILE 1 Haul 1ST NASSCO_PM25.AD\01H1G001.PLT 32
   PLOTFILE 1 Construc 1ST NASSCO_PM25.AD\01H1G002.PLT 33
   PLOTFILE PERIOD ALL NASSCO_PM25.AD\PE00GALL.PLT 34
   PLOTFILE PERIOD Haul NASSCO_PM25.AD\PE00G001.PLT 35
   PLOTFILE PERIOD Construc NASSCO_PM25.AD\PE00G002.PLT 36
   SUMMFILE NASSCO_PM25.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)
```

```
   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
 ME W186    1620       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
      0.50
 MX W403    1620       PFLCNV: Turbulence data is being used w/o ADJ_U* option
 SigA Data

 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                         ***        11:59:01

                                    PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                                          ***     MODEL SETUP OPTIONS SUMMARY
  ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses RURAL Dispersion Only.

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.

 **Other Options Specified:
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Accepts FLAGPOLE Receptor Heights.
```

```
 **The User Specified a Pollutant Type of:  PM_2.5

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates PERIOD Averages

 **This Run Includes:    699 Source(s);       3 Source Group(s); and    2219
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    699 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  19191

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing
Hours
                                                                 b for Both Calm
and Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    39.62 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                                 ;
Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      4.2 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
HAUL0001	0	0.12795E-04	487347.0	3617562.2	13.0	2.55	3.93	1.93	NO	
HAUL0002	0	0.12795E-04	487353.7	3617557.0	13.0	2.55	3.93	1.93	NO	
HAUL0003	0	0.12795E-04	487360.3	3617551.9	13.1	2.55	3.93	1.93	NO	
HAUL0004	0	0.12795E-04	487367.0	3617546.7	13.6	2.55	3.93	1.93	NO	
HAUL0005	0	0.12795E-04	487373.7	3617541.5	13.8	2.55	3.93	1.93	NO	
HAUL0006	0	0.12795E-04	487380.4	3617536.4	13.7	2.55	3.93	1.93	NO	
HAUL0007	0	0.12795E-04	487387.0	3617531.2	13.8	2.55	3.93	1.93	NO	
HAUL0008	0	0.12795E-04	487393.7	3617526.0	13.9	2.55	3.93	1.93	NO	
HAUL0009	0	0.12795E-04	487400.4	3617520.8	14.1	2.55	3.93	1.93	NO	
HAUL0010	0	0.12795E-04	487407.0	3617515.7	14.1	2.55	3.93	1.93	NO	
HAUL0011	0	0.12795E-04	487413.7	3617510.5	14.1	2.55	3.93	1.93	NO	
HAUL0012	0	0.12795E-04	487420.4	3617505.3	13.9	2.55	3.93	1.93	NO	
HAUL0013	0	0.12795E-04	487427.1	3617500.2	13.6	2.55	3.93	1.93	NO	

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 HAUL0014         0   0.12795E-04  487433.7 3617495.0    13.3     2.55     3.93
1.93     NO
 HAUL0015         0   0.12795E-04  487440.4 3617489.8    13.1     2.55     3.93
1.93     NO
 HAUL0016         0   0.12795E-04  487447.1 3617484.7    13.0     2.55     3.93
1.93     NO
 HAUL0017         0   0.12795E-04  487453.7 3617479.5    13.0     2.55     3.93
1.93     NO
 HAUL0018         0   0.12795E-04  487457.0 3617472.6    13.0     2.55     3.93
1.93     NO
 HAUL0019         0   0.12795E-04  487457.2 3617464.2    13.0     2.55     3.93
1.93     NO
 HAUL0020         0   0.12795E-04  487457.4 3617455.7    13.0     2.55     3.93
1.93     NO
 HAUL0021         0   0.12795E-04  487457.7 3617447.3    13.0     2.55     3.93
1.93     NO
 HAUL0022         0   0.12795E-04  487457.9 3617438.8    13.0     2.55     3.93
1.93     NO
 HAUL0023         0   0.12795E-04  487458.1 3617430.4    13.0     2.55     3.93
1.93     NO
 HAUL0024         0   0.12795E-04  487458.3 3617422.0    13.0     2.55     3.93
1.93     NO
 HAUL0025         0   0.12795E-04  487458.5 3617413.5    13.0     2.55     3.93
1.93     NO
 HAUL0026         0   0.12795E-04  487458.8 3617405.1    13.0     2.55     3.93
1.93     NO
 HAUL0027         0   0.12795E-04  487459.0 3617396.7    13.0     2.55     3.93
1.93     NO
 HAUL0028         0   0.12795E-04  487459.2 3617388.2    13.0     2.55     3.93
1.93     NO
 HAUL0029         0   0.12795E-04  487459.4 3617379.8    13.0     2.55     3.93
1.93     NO
 HAUL0030         0   0.12795E-04  487459.6 3617371.3    13.0     2.55     3.93
1.93     NO
 HAUL0031         0   0.12795E-04  487459.8 3617362.9    13.0     2.55     3.93
1.93     NO
 HAUL0032         0   0.12795E-04  487460.1 3617354.5    13.0     2.55     3.93
1.93     NO
 HAUL0033         0   0.12795E-04  487460.3 3617346.0    13.0     2.55     3.93
1.93     NO
 HAUL0034         0   0.12795E-04  487460.5 3617337.6    13.0     2.55     3.93
1.93     NO
 HAUL0035         0   0.12795E-04  487460.7 3617329.2    13.0     2.55     3.93
1.93     NO
 HAUL0036         0   0.12795E-04  487460.9 3617320.7    12.9     2.55     3.93
1.93     NO
 HAUL0037         0   0.12795E-04  487461.1 3617312.3    12.7     2.55     3.93
1.93     NO
 HAUL0038         0   0.12795E-04  487461.4 3617303.8    12.6     2.55     3.93
1.93     NO
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
HAUL0039	0	0.12795E-04	487461.6	3617295.4	12.4	2.55	3.93	1.93	NO	
HAUL0040	0	0.12795E-04	487461.8	3617287.0	12.3	2.55	3.93	1.93	NO	
HAUL0041	0	0.12795E-04	487462.0	3617278.5	12.2	2.55	3.93	1.93	NO	
HAUL0042	0	0.12795E-04	487462.2	3617270.1	12.1	2.55	3.93	1.93	NO	
HAUL0043	0	0.12795E-04	487462.5	3617261.7	11.9	2.55	3.93	1.93	NO	
HAUL0044	0	0.12795E-04	487462.7	3617253.2	11.6	2.55	3.93	1.93	NO	
HAUL0045	0	0.12795E-04	487462.9	3617244.8	11.3	2.55	3.93	1.93	NO	
HAUL0046	0	0.12795E-04	487463.1	3617236.3	11.0	2.55	3.93	1.93	NO	
HAUL0047	0	0.12795E-04	487463.3	3617227.9	10.6	2.55	3.93	1.93	NO	
HAUL0048	0	0.12795E-04	487463.5	3617219.5	10.2	2.55	3.93	1.93	NO	
HAUL0049	0	0.12795E-04	487463.8	3617211.0	9.7	2.55	3.93	1.93	NO	
HAUL0050	0	0.12795E-04	487464.0	3617202.6	9.3	2.55	3.93	1.93	NO	
HAUL0051	0	0.12795E-04	487464.2	3617194.2	8.9	2.55	3.93	1.93	NO	
HAUL0052	0	0.12795E-04	487464.4	3617185.7	8.5	2.55	3.93	1.93	NO	
HAUL0053	0	0.12795E-04	487464.6	3617177.3	8.1	2.55	3.93	1.93	NO	

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 HAUL0054         0   0.12795E-04  487464.8 3617168.9     7.8     2.55     3.93
1.93     NO
 HAUL0055         0   0.12795E-04  487465.1 3617160.4     7.5     2.55     3.93
1.93     NO
 HAUL0056         0   0.12795E-04  487465.3 3617152.0     7.2     2.55     3.93
1.93     NO
 HAUL0057         0   0.12795E-04  487465.5 3617143.5     6.9     2.55     3.93
1.93     NO
 HAUL0058         0   0.12795E-04  487465.7 3617135.1     6.6     2.55     3.93
1.93     NO
 HAUL0059         0   0.12795E-04  487465.9 3617126.7     6.4     2.55     3.93
1.93     NO
 HAUL0060         0   0.12795E-04  487466.2 3617118.2     6.1     2.55     3.93
1.93     NO
 HAUL0061         0   0.12795E-04  487466.4 3617109.8     6.0     2.55     3.93
1.93     NO
 HAUL0062         0   0.12795E-04  487466.6 3617101.4     6.0     2.55     3.93
1.93     NO
 HAUL0063         0   0.12795E-04  487466.8 3617092.9     6.0     2.55     3.93
1.93     NO
 HAUL0064         0   0.12795E-04  487467.0 3617084.5     6.0     2.55     3.93
1.93     NO
 HAUL0065         0   0.12795E-04  487467.2 3617076.0     6.0     2.55     3.93
1.93     NO
 HAUL0066         0   0.12795E-04  487467.5 3617067.6     6.0     2.55     3.93
1.93     NO
 HAUL0067         0   0.12795E-04  487467.7 3617059.2     6.0     2.55     3.93
1.93     NO
 HAUL0068         0   0.12795E-04  487467.9 3617050.7     5.8     2.55     3.93
1.93     NO
 HAUL0069         0   0.12795E-04  487468.1 3617042.3     5.5     2.55     3.93
1.93     NO
 HAUL0070         0   0.12795E-04  487463.9 3617039.2     5.4     2.55     3.93
1.93     NO
 HAUL0071         0   0.12795E-04  487455.7 3617041.1     5.5     2.55     3.93
1.93     NO
 HAUL0072         0   0.12795E-04  487447.5 3617043.0     5.6     2.55     3.93
1.93     NO
 HAUL0073         0   0.12795E-04  487439.3 3617044.9     5.6     2.55     3.93
1.93     NO
 HAUL0074         0   0.12795E-04  487431.0 3617046.8     5.7     2.55     3.93
1.93     NO
 HAUL0075         0   0.12795E-04  487422.8 3617048.7     5.8     2.55     3.93
1.93     NO
 HAUL0076         0   0.12795E-04  487414.6 3617050.6     5.8     2.55     3.93
1.93     NO
 HAUL0077         0   0.12795E-04  487406.4 3617052.5     5.9     2.55     3.93
1.93     NO
 HAUL0078         0   0.12795E-04  487398.1 3617054.4     6.0     2.55     3.93
1.93     NO
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
HAUL0079	0	0.12795E-04	487389.9	3617056.3	6.0	2.55	3.93	1.93	NO	
HAUL0080	0	0.12795E-04	487381.7	3617058.2	5.8	2.55	3.93	1.93	NO	
HAUL0081	0	0.12795E-04	487373.5	3617060.1	5.5	2.55	3.93	1.93	NO	
HAUL0082	0	0.12795E-04	487365.3	3617062.0	5.4	2.55	3.93	1.93	NO	
HAUL0083	0	0.12795E-04	487357.0	3617063.9	5.3	2.55	3.93	1.93	NO	
HAUL0084	0	0.12795E-04	487348.8	3617065.8	5.3	2.55	3.93	1.93	NO	
HAUL0085	0	0.12795E-04	487340.6	3617067.7	5.4	2.55	3.93	1.93	NO	
HAUL0086	0	0.12795E-04	487332.4	3617069.6	5.5	2.55	3.93	1.93	NO	
HAUL0087	0	0.12795E-04	487324.1	3617071.5	5.5	2.55	3.93	1.93	NO	
HAUL0088	0	0.12795E-04	487315.9	3617073.4	5.6	2.55	3.93	1.93	NO	
HAUL0089	0	0.12795E-04	487307.7	3617075.3	5.6	2.55	3.93	1.93	NO	
HAUL0090	0	0.12795E-04	487299.5	3617077.2	5.7	2.55	3.93	1.93	NO	
HAUL0091	0	0.12795E-04	487291.2	3617079.1	5.8	2.55	3.93	1.93	NO	
HAUL0092	0	0.12795E-04	487283.0	3617081.0	5.8	2.55	3.93	1.93	NO	
HAUL0093	0	0.12795E-04	487274.8	3617082.9	5.9	2.55	3.93	1.93	NO	

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 HAUL0094         0   0.12795E-04  487266.6 3617084.8     6.0     2.55     3.93
1.93     NO
 HAUL0095         0   0.12795E-04  487258.3 3617086.7     6.0     2.55     3.93
1.93     NO
 HAUL0096         0   0.12795E-04  487250.1 3617088.6     6.0     2.55     3.93
1.93     NO
 HAUL0097         0   0.12795E-04  487242.3 3617091.5     6.0     2.55     3.93
1.93     NO
 HAUL0098         0   0.12795E-04  487234.6 3617095.0     6.0     2.55     3.93
1.93     NO
 HAUL0099         0   0.12795E-04  487226.9 3617098.5     6.0     2.55     3.93
1.93     NO
 HAUL0100         0   0.12795E-04  487219.2 3617101.9     6.0     2.55     3.93
1.93     NO
 HAUL0101         0   0.12795E-04  487211.5 3617105.4     6.0     2.55     3.93
1.93     NO
 HAUL0102         0   0.12795E-04  487203.8 3617108.9     6.0     2.55     3.93
1.93     NO
 HAUL0103         0   0.12795E-04  487196.1 3617112.3     6.0     2.55     3.93
1.93     NO
 HAUL0104         0   0.12795E-04  487188.4 3617115.8     6.0     2.55     3.93
1.93     NO
 HAUL0105         0   0.12795E-04  487180.7 3617119.3     6.1     2.55     3.93
1.93     NO
 HAUL0106         0   0.12795E-04  487173.0 3617122.7     6.2     2.55     3.93
1.93     NO
 HAUL0107         0   0.12795E-04  487165.3 3617126.2     6.2     2.55     3.93
1.93     NO
 HAUL0108         0   0.12795E-04  487157.6 3617129.7     6.1     2.55     3.93
1.93     NO
 HAUL0109         0   0.12795E-04  487149.9 3617133.1     6.0     2.55     3.93
1.93     NO
 HAUL0110         0   0.12795E-04  487142.2 3617136.6     6.0     2.55     3.93
1.93     NO
 HAUL0111         0   0.12795E-04  487134.5 3617140.1     6.0     2.55     3.93
1.93     NO
 HAUL0112         0   0.12795E-04  487126.8 3617143.6     6.0     2.55     3.93
1.93     NO
 HAUL0113         0   0.12795E-04  487119.1 3617147.0     6.0     2.55     3.93
1.93     NO
 HAUL0114         0   0.12795E-04  487111.4 3617150.5     6.1     2.55     3.93
1.93     NO
 HAUL0115         0   0.12795E-04  487103.7 3617154.0     6.3     2.55     3.93
1.93     NO
 HAUL0116         0   0.12795E-04  487096.1 3617157.4     6.4     2.55     3.93
1.93     NO
 HAUL0117         0   0.12795E-04  487088.4 3617160.9     6.5     2.55     3.93
1.93     NO
 HAUL0118         0   0.12795E-04  487080.7 3617164.4     6.4     2.55     3.93
1.93     NO
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
HAUL0119	0	0.12795E-04	487073.0	3617167.8	6.3	2.55	3.93	1.93	NO	
HAUL0120	0	0.12795E-04	487065.3	3617171.3	6.2	2.55	3.93	1.93	NO	
HAUL0121	0	0.12795E-04	487057.6	3617174.8	6.0	2.55	3.93	1.93	NO	
HAUL0122	0	0.12795E-04	487049.9	3617178.2	6.1	2.55	3.93	1.93	NO	
HAUL0123	0	0.12795E-04	487042.2	3617181.7	6.2	2.55	3.93	1.93	NO	
HAUL0124	0	0.12795E-04	487034.5	3617185.2	6.3	2.55	3.93	1.93	NO	
HAUL0125	0	0.12795E-04	487026.8	3617188.6	6.5	2.55	3.93	1.93	NO	
HAUL0126	0	0.12795E-04	487019.1	3617192.1	6.9	2.55	3.93	1.93	NO	
HAUL0127	0	0.12795E-04	487011.4	3617195.6	7.2	2.55	3.93	1.93	NO	
HAUL0128	0	0.12795E-04	487003.7	3617199.0	7.6	2.55	3.93	1.93	NO	
HAUL0129	0	0.12795E-04	486996.0	3617202.5	7.9	2.55	3.93	1.93	NO	
HAUL0130	0	0.12795E-04	486988.3	3617206.0	8.0	2.55	3.93	1.93	NO	
HAUL0131	0	0.12795E-04	486980.6	3617209.4	8.0	2.55	3.93	1.93	NO	
HAUL0132	0	0.12795E-04	486972.9	3617212.9	8.0	2.55	3.93	1.93	NO	
HAUL0133	0	0.12795E-04	486965.2	3617216.4	7.9	2.55	3.93	1.93	NO	

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 HAUL0134         0   0.12795E-04  486957.6 3617219.8     7.8     2.55     3.93
1.93     NO
 HAUL0135         0   0.12795E-04  486949.9 3617223.3     7.7     2.55     3.93
1.93     NO
 HAUL0136         0   0.12795E-04  486942.6 3617227.6     7.8     2.55     3.93
1.93     NO
 HAUL0137         0   0.12795E-04  486935.9 3617232.7     7.9     2.55     3.93
1.93     NO
 HAUL0138         0   0.12795E-04  486929.2 3617237.8     8.1     2.55     3.93
1.93     NO
 HAUL0139         0   0.12795E-04  486922.5 3617243.0     8.2     2.55     3.93
1.93     NO
 HAUL0140         0   0.12795E-04  486915.8 3617248.1     8.4     2.55     3.93
1.93     NO
 HAUL0141         0   0.12795E-04  486909.1 3617253.2     8.6     2.55     3.93
1.93     NO
 HAUL0142         0   0.12795E-04  486902.4 3617258.4     8.6     2.55     3.93
1.93     NO
 HAUL0143         0   0.12795E-04  486895.7 3617263.5     8.5     2.55     3.93
1.93     NO
 HAUL0144         0   0.12795E-04  486889.0 3617268.6     8.4     2.55     3.93
1.93     NO
 HAUL0145         0   0.12795E-04  486882.3 3617273.7     8.3     2.55     3.93
1.93     NO
 HAUL0146         0   0.12795E-04  486875.6 3617278.9     8.4     2.55     3.93
1.93     NO
 HAUL0147         0   0.12795E-04  486868.9 3617284.0     8.6     2.55     3.93
1.93     NO
 HAUL0148         0   0.12795E-04  486862.2 3617289.1     8.8     2.55     3.93
1.93     NO
 HAUL0149         0   0.12795E-04  486855.5 3617294.2     8.9     2.55     3.93
1.93     NO
 HAUL0150         0   0.12795E-04  486848.8 3617299.4     9.0     2.55     3.93
1.93     NO
 HAUL0151         0   0.12795E-04  486842.1 3617304.5     9.0     2.55     3.93
1.93     NO
 HAUL0152         0   0.12795E-04  486835.4 3617309.6     9.0     2.55     3.93
1.93     NO
 HAUL0153         0   0.12795E-04  486828.7 3617314.8     9.0     2.55     3.93
1.93     NO
 HAUL0154         0   0.12795E-04  486822.0 3617319.9     9.0     2.55     3.93
1.93     NO
 HAUL0155         0   0.12795E-04  486815.3 3617325.0     9.0     2.55     3.93
1.93     NO
 HAUL0156         0   0.12795E-04  486808.6 3617330.1     9.1     2.55     3.93
1.93     NO
 HAUL0157         0   0.12795E-04  486801.9 3617335.3     9.1     2.55     3.93
1.93     NO
 HAUL0158         0   0.12795E-04  486796.9 3617328.9     9.0     2.55     3.93
1.93     NO
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
HAUL0159	0	0.12795E-04	486791.9	3617322.1	8.9	2.55	3.93	1.93	NO	
HAUL0160	0	0.12795E-04	486787.0	3617315.2	8.6	2.55	3.93	1.93	NO	
HAUL0161	0	0.12795E-04	486782.1	3617308.4	8.4	2.55	3.93	1.93	NO	
HAUL0162	0	0.12795E-04	486777.2	3617301.5	8.2	2.55	3.93	1.93	NO	
HAUL0163	0	0.12795E-04	486772.2	3617294.7	8.0	2.55	3.93	1.93	NO	
HAUL0164	0	0.12795E-04	486767.3	3617287.8	8.0	2.55	3.93	1.93	NO	
HAUL0165	0	0.12795E-04	486762.4	3617281.0	8.0	2.55	3.93	1.93	NO	
HAUL0166	0	0.12795E-04	486757.5	3617274.1	8.0	2.55	3.93	1.93	NO	
HAUL0167	0	0.12795E-04	486752.5	3617267.3	7.8	2.55	3.93	1.93	NO	
HAUL0168	0	0.12795E-04	486747.6	3617260.4	7.5	2.55	3.93	1.93	NO	
HAUL0169	0	0.12795E-04	486742.7	3617253.5	7.3	2.55	3.93	1.93	NO	
HAUL0170	0	0.12795E-04	486737.8	3617246.7	7.1	2.55	3.93	1.93	NO	
HAUL0171	0	0.12795E-04	486732.8	3617239.8	7.0	2.55	3.93	1.93	NO	
HAUL0172	0	0.12795E-04	486727.9	3617233.0	6.9	2.55	3.93	1.93	NO	
HAUL0173	0	0.12795E-04	486723.0	3617226.1	6.7	2.55	3.93	1.93	NO	

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 HAUL0174         0   0.12795E-04  486718.1 3617219.3     6.4     2.55     3.93
1.93     NO
 HAUL0175         0   0.12795E-04  486713.1 3617212.4     6.2     2.55     3.93
1.93     NO
 HAUL0176         0   0.12795E-04  486708.2 3617205.6     6.0     2.55     3.93
1.93     NO
 HAUL0177         0   0.12795E-04  486703.3 3617198.7     6.0     2.55     3.93
1.93     NO
 HAUL0178         0   0.12795E-04  486698.4 3617191.9     6.0     2.55     3.93
1.93     NO
 HAUL0179         0   0.12795E-04  486693.4 3617185.0     6.0     2.55     3.93
1.93     NO
 HAUL0180         0   0.12795E-04  486688.5 3617178.1     6.0     2.55     3.93
1.93     NO
 HAUL0181         0   0.12795E-04  486683.6 3617171.3     5.8     2.55     3.93
1.93     NO
 HAUL0182         0   0.12795E-04  486678.7 3617164.4     5.6     2.55     3.93
1.93     NO
 HAUL0183         0   0.12795E-04  486673.7 3617157.6     5.4     2.55     3.93
1.93     NO
 HAUL0184         0   0.12795E-04  486668.8 3617150.7     5.2     2.55     3.93
1.93     NO
 HAUL0185         0   0.12795E-04  486663.9 3617143.9     5.0     2.55     3.93
1.93     NO
 HAUL0186         0   0.12795E-04  486659.0 3617137.0     4.9     2.55     3.93
1.93     NO
 HAUL0187         0   0.12795E-04  486654.0 3617130.2     4.7     2.55     3.93
1.93     NO
 HAUL0188         0   0.12795E-04  486649.1 3617123.3     4.5     2.55     3.93
1.93     NO
 HAUL0189         0   0.12795E-04  486644.2 3617116.5     4.2     2.55     3.93
1.93     NO
 HAUL0190         0   0.12795E-04  486639.3 3617109.6     4.0     2.55     3.93
1.93     NO
 HAUL0191         0   0.12795E-04  486634.3 3617102.7     4.0     2.55     3.93
1.93     NO
 HAUL0192         0   0.12795E-04  486629.4 3617095.9     4.0     2.55     3.93
1.93     NO
 HAUL0193         0   0.12795E-04  486624.5 3617089.0     4.0     2.55     3.93
1.93     NO
 HAUL0194         0   0.12795E-04  486619.6 3617082.2     3.9     2.55     3.93
1.93     NO
 HAUL0195         0   0.12795E-04  486614.6 3617075.3     3.7     2.55     3.93
1.93     NO
 HAUL0196         0   0.12795E-04  486609.7 3617068.5     3.4     2.55     3.93
1.93     NO
 HAUL0197         0   0.12795E-04  486604.8 3617061.6     2.8     2.55     3.93
1.93     NO
 HAUL0198         0   0.12795E-04  486599.9 3617054.8     2.1     2.55     3.93
1.93     NO
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
HAUL0199	0	0.12795E-04	486594.9	3617047.9	1.8	2.55	3.93	1.93	NO	
HAUL0200	0	0.12795E-04	486590.0	3617041.1	1.7	2.55	3.93	1.93	NO	
HAUL0201	0	0.12795E-04	486585.1	3617034.2	1.8	2.55	3.93	1.93	NO	
HAUL0202	0	0.12795E-04	486580.2	3617027.3	1.9	2.55	3.93	1.93	NO	
HAUL0203	0	0.12795E-04	486575.2	3617020.5	1.9	2.55	3.93	1.93	NO	
VOL1	0	0.25974E-02	486610.0	3616972.6	3.0	5.00	9.30	1.00	NO	
VOL2	0	0.25974E-02	486625.6	3616963.1	3.4	5.00	9.30	1.00	NO	
VOL3	0	0.25974E-02	486653.4	3616947.8	2.8	5.00	9.30	1.00	NO	
VOL5	0	0.25974E-02	486692.6	3616939.2	2.2	5.00	9.30	1.00	NO	
VOL6	0	0.25974E-02	487110.5	3616738.1	0.0	5.00	9.30	1.00	NO	
VOL7	0	0.25974E-02	487133.5	3616743.4	0.4	5.00	9.30	1.00	NO	
VOL8	0	0.25974E-02	487155.9	3616750.0	0.8	5.00	9.30	1.00	NO	
VOL9	0	0.25974E-02	487180.7	3616755.9	2.0	5.00	9.30	1.00	NO	
VOL10	0	0.25974E-02	487203.8	3616761.1	2.8	5.00	9.30	1.00	NO	
VOL11	0	0.25974E-02	487226.1	3616767.7	3.0	5.00	9.30	1.00	NO	

```
 VOL12           0   0.25974E-02  487248.2 3616774.3     3.0     5.00     9.30
1.00     NO
 VOL13           0   0.25974E-02  487271.2 3616779.5     3.0     5.00     9.30
1.00     NO
 VOL14           0   0.25974E-02  487293.6 3616786.1     3.0     5.00     9.30
1.00     NO
 VOL15           0   0.25974E-02  487314.7 3616793.7     3.0     5.00     9.30
1.00     NO
 VOL16           0   0.25974E-02  487337.7 3616798.9     3.0     5.00     9.30
1.00     NO
 VOL17           0   0.25974E-02  487360.1 3616805.5     3.0     5.00     9.30
1.00     NO
 VOL18           0   0.25974E-02  487379.1 3616809.0     3.0     5.00     9.30
1.00     NO
 VOL19           0   0.25974E-02  487402.2 3616814.3     3.4     5.00     9.30
1.00     NO
 VOL20           0   0.25974E-02  487205.1 3616737.5     2.9     5.00     9.30
1.00     NO
 VOL21           0   0.25974E-02  487227.5 3616744.1     3.0     5.00     9.30
1.00     NO
 VOL22           0   0.25974E-02  487249.6 3616750.7     3.0     5.00     9.30
1.00     NO
 VOL23           0   0.25974E-02  487272.6 3616755.9     3.0     5.00     9.30
1.00     NO
 VOL24           0   0.25974E-02  487295.0 3616762.5     3.0     5.00     9.30
1.00     NO
 VOL25           0   0.25974E-02  487316.1 3616770.1     3.0     5.00     9.30
1.00     NO
 VOL26           0   0.25974E-02  487339.1 3616775.3     3.0     5.00     9.30
1.00     NO
 VOL27           0   0.25974E-02  487361.5 3616782.0     3.0     5.00     9.30
1.00     NO
 VOL28           0   0.25974E-02  487380.5 3616785.4     3.0     5.00     9.30
1.00     NO
 VOL29           0   0.25974E-02  487403.6 3616790.7     3.1     5.00     9.30
1.00     NO
 VOL30           0   0.25974E-02  487111.9 3616714.5     0.0     5.00     9.30
1.00     NO
 VOL31           0   0.25974E-02  487134.9 3616719.8     1.1     5.00     9.30
1.00     NO
 VOL32           0   0.25974E-02  487157.3 3616726.4     2.2     5.00     9.30
1.00     NO
 VOL33           0   0.25974E-02  487182.1 3616732.3     2.8     5.00     9.30
1.00     NO
 VOL34           0   0.25974E-02  487207.2 3616714.0     3.0     5.00     9.30
1.00     NO
 VOL35           0   0.25974E-02  487229.6 3616720.6     3.0     5.00     9.30
1.00     NO
 VOL36           0   0.25974E-02  487251.6 3616727.2     3.0     5.00     9.30
1.00     NO
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
VOL37	0	0.25974E-02	487274.7	3616732.4	3.0	5.00	9.30	1.00	NO	
VOL38	0	0.25974E-02	487297.1	3616739.0	3.0	5.00	9.30	1.00	NO	
VOL39	0	0.25974E-02	487318.1	3616746.6	3.0	5.00	9.30	1.00	NO	
VOL40	0	0.25974E-02	487341.2	3616751.8	3.0	5.00	9.30	1.00	NO	
VOL41	0	0.25974E-02	487363.5	3616758.4	3.0	5.00	9.30	1.00	NO	
VOL42	0	0.25974E-02	487382.6	3616761.9	3.0	5.00	9.30	1.00	NO	
VOL43	0	0.25974E-02	487405.6	3616767.2	3.0	5.00	9.30	1.00	NO	
VOL44	0	0.25974E-02	487113.9	3616691.0	0.3	5.00	9.30	1.00	NO	
VOL45	0	0.25974E-02	487137.0	3616696.2	1.2	5.00	9.30	1.00	NO	
VOL46	0	0.25974E-02	487159.3	3616702.9	2.3	5.00	9.30	1.00	NO	
VOL47	0	0.25974E-02	487184.1	3616708.7	3.0	5.00	9.30	1.00	NO	
VOL48	0	0.25974E-02	487233.8	3616675.1	2.3	5.00	9.30	1.00	NO	
VOL49	0	0.25974E-02	487256.2	3616681.7	2.5	5.00	9.30	1.00	NO	
VOL50	0	0.25974E-02	487278.2	3616688.3	2.7	5.00	9.30	1.00	NO	
VOL51	0	0.25974E-02	487301.3	3616693.5	2.9	5.00	9.30	1.00	NO	

```
 VOL52           0   0.25974E-02  487323.7 3616700.1     3.0     5.00     9.30
1.00     NO
 VOL53           0   0.25974E-02  487344.7 3616707.7     3.0     5.00     9.30
1.00     NO
 VOL54           0   0.25974E-02  487367.8 3616712.9     2.9     5.00     9.30
1.00     NO
 VOL55           0   0.25974E-02  487390.1 3616719.6     2.8     5.00     9.30
1.00     NO
 VOL56           0   0.25974E-02  487409.1 3616723.1     2.9     5.00     9.30
1.00     NO
 VOL57           0   0.25974E-02  487432.2 3616728.3     3.0     5.00     9.30
1.00     NO
 VOL58           0   0.25974E-02  487140.5 3616652.2     1.4     5.00     9.30
1.00     NO
 VOL59           0   0.25974E-02  487163.6 3616657.4     1.4     5.00     9.30
1.00     NO
 VOL60           0   0.25974E-02  487185.9 3616664.0     1.9     5.00     9.30
1.00     NO
 VOL61           0   0.25974E-02  487210.7 3616669.9     2.1     5.00     9.30
1.00     NO
 VOL62           0   0.25974E-02  487210.3 3616691.5     2.8     5.00     9.30
1.00     NO
 VOL63           0   0.25974E-02  487232.6 3616698.1     3.0     5.00     9.30
1.00     NO
 VOL64           0   0.25974E-02  487254.7 3616704.7     3.0     5.00     9.30
1.00     NO
 VOL65           0   0.25974E-02  487277.8 3616709.9     3.0     5.00     9.30
1.00     NO
 VOL66           0   0.25974E-02  487300.1 3616716.5     3.0     5.00     9.30
1.00     NO
 VOL67           0   0.25974E-02  487321.2 3616724.1     3.0     5.00     9.30
1.00     NO
 VOL68           0   0.25974E-02  487344.2 3616729.3     3.0     5.00     9.30
1.00     NO
 VOL69           0   0.25974E-02  487366.6 3616735.9     3.0     5.00     9.30
1.00     NO
 VOL70           0   0.25974E-02  487385.6 3616739.4     3.0     5.00     9.30
1.00     NO
 VOL71           0   0.25974E-02  487408.7 3616744.7     3.0     5.00     9.30
1.00     NO
 VOL72           0   0.25974E-02  487117.0 3616668.5     1.7     5.00     9.30
1.00     NO
 VOL73           0   0.25974E-02  487140.0 3616673.7     1.8     5.00     9.30
1.00     NO
 VOL74           0   0.25974E-02  487162.4 3616680.4     2.2     5.00     9.30
1.00     NO
 VOL75           0   0.25974E-02  487187.2 3616686.2     2.7     5.00     9.30
1.00     NO
 VOL76           0   0.25974E-02  487233.8 3616653.6     1.2     5.00     9.30
1.00     NO
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
VOL77	0	0.25974E-02	487256.2	3616660.3	1.6	5.00	9.30	1.00	NO	
VOL78	0	0.25974E-02	487278.2	3616666.8	2.0	5.00	9.30	1.00	NO	
VOL79	0	0.25974E-02	487301.3	3616672.0	2.2	5.00	9.30	1.00	NO	
VOL80	0	0.25974E-02	487323.7	3616678.7	2.4	5.00	9.30	1.00	NO	
VOL81	0	0.25974E-02	487344.7	3616686.2	2.7	5.00	9.30	1.00	NO	
VOL82	0	0.25974E-02	487367.8	3616691.5	2.5	5.00	9.30	1.00	NO	
VOL83	0	0.25974E-02	487390.1	3616698.1	2.1	5.00	9.30	1.00	NO	
VOL84	0	0.25974E-02	487409.1	3616701.6	2.2	5.00	9.30	1.00	NO	
VOL85	0	0.25974E-02	487432.2	3616706.8	2.4	5.00	9.30	1.00	NO	
VOL86	0	0.25974E-02	487140.5	3616630.7	0.5	5.00	9.30	1.00	NO	
VOL87	0	0.25974E-02	487163.6	3616635.9	0.0	5.00	9.30	1.00	NO	
VOL88	0	0.25974E-02	487185.9	3616642.5	0.4	5.00	9.30	1.00	NO	
VOL89	0	0.25974E-02	487210.7	3616648.4	0.8	5.00	9.30	1.00	NO	
VOL90	0	0.25974E-02	487231.7	3616631.1	0.0	5.00	9.30	1.00	NO	
VOL91	0	0.25974E-02	487254.1	3616637.8	0.1	5.00	9.30	1.00	NO	

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 VOL92           0   0.25974E-02  487276.2 3616644.3     0.6     5.00     9.30
1.00     NO
 VOL93           0   0.25974E-02  487299.2 3616649.5     0.9     5.00     9.30
1.00     NO
 VOL94           0   0.25974E-02  487321.6 3616656.2     1.4     5.00     9.30
1.00     NO
 VOL95           0   0.25974E-02  487342.7 3616663.7     1.9     5.00     9.30
1.00     NO
 VOL96           0   0.25974E-02  487365.7 3616669.0     1.7     5.00     9.30
1.00     NO
 VOL97           0   0.25974E-02  487388.1 3616675.6     0.7     5.00     9.30
1.00     NO
 VOL98           0   0.25974E-02  487407.1 3616679.1     0.9     5.00     9.30
1.00     NO
 VOL99           0   0.25974E-02  487430.1 3616684.3     1.2     5.00     9.30
1.00     NO
 VOL103          0   0.25974E-02  487208.7 3616625.9     0.0     5.00     9.30
1.00     NO
 VOL110          0   0.25974E-02  487072.8 3616631.9     2.1     5.00     9.30
1.00     NO
 VOL111          0   0.25974E-02  487095.2 3616638.5     1.9     5.00     9.30
1.00     NO
 VOL112          0   0.25974E-02  487117.2 3616645.1     2.0     5.00     9.30
1.00     NO
 VOL119          0   0.25974E-02  487115.2 3616622.6     1.2     5.00     9.30
1.00     NO
 VOL120          0   0.25974E-02  487070.8 3616653.7     0.8     5.00     9.30
1.00     NO
 VOL121          0   0.25974E-02  487093.2 3616660.3     0.6     5.00     9.30
1.00     NO
 VOL123          0   0.25974E-02  487452.8 3616718.5     2.8     5.00     9.30
1.00     NO
 VOL124          0   0.25974E-02  487472.8 3616718.7     2.8     5.00     9.30
1.00     NO
 VOL125          0   0.25974E-02  487452.8 3616697.1     2.0     5.00     9.30
1.00     NO
 VOL126          0   0.25974E-02  487472.8 3616697.2     2.0     5.00     9.30
1.00     NO
 VOL132          0   0.25974E-02  486713.2 3616931.9     1.7     5.00     9.30
1.00     NO
 VOL133          0   0.25974E-02  486735.3 3616938.5     2.1     5.00     9.30
1.00     NO
 VOL134          0   0.25974E-02  486758.4 3616943.7     2.3     5.00     9.30
1.00     NO
 VOL135          0   0.25974E-02  486780.7 3616950.3     2.5     5.00     9.30
1.00     NO
 VOL136          0   0.25974E-02  486669.7 3616942.6     2.4     5.00     9.30
1.00     NO
 VOL137          0   0.25974E-02  486800.3 3616966.5     3.0     5.00     9.30
1.00     NO
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
VOL138	0	0.25974E-02	486823.3	3616971.8	3.2	5.00	9.30	1.00	NO	
VOL139	0	0.25974E-02	486845.7	3616978.4	3.4	5.00	9.30	1.00	NO	
VOL140	0	0.25974E-02	486860.6	3616991.1	3.8	5.00	9.30	1.00	NO	
VOL141	0	0.25974E-02	486882.6	3616994.3	3.9	5.00	9.30	1.00	NO	
VOL142	0	0.25974E-02	486899.9	3616999.9	4.0	5.00	9.30	1.00	NO	
VOL143	0	0.25974E-02	486842.2	3616964.5	2.9	5.00	9.30	1.00	NO	
VOL144	0	0.25974E-02	486865.2	3616969.7	2.7	5.00	9.30	1.00	NO	
VOL145	0	0.25974E-02	486886.6	3616974.3	2.6	5.00	9.30	1.00	NO	
VOL146	0	0.25974E-02	486905.9	3616979.4	2.9	5.00	9.30	1.00	NO	
VOL147	0	0.25974E-02	486919.2	3616998.8	3.7	5.00	9.30	1.00	NO	
VOL148	0	0.25974E-02	486924.0	3616979.4	2.7	5.00	9.30	1.00	NO	
VOL149	0	0.25974E-02	486940.5	3616990.7	2.8	5.00	9.30	1.00	NO	
VOL150	0	0.25974E-02	486943.1	3616976.8	2.4	5.00	9.30	1.00	NO	
VOL151	0	0.25974E-02	486962.2	3616971.6	2.8	5.00	9.30	1.00	NO	
VOL152	0	0.25974E-02	486974.4	3616959.4	2.5	5.00	9.30	1.00	NO	

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 VOL153          0   0.25974E-02  486988.3 3616955.1     2.6     5.00     9.30
1.00     NO
 VOL154          0   0.25974E-02  486999.6 3616945.5     3.0     5.00     9.30
1.00     NO
 VOL155          0   0.25974E-02  487015.2 3616935.1     3.0     5.00     9.30
1.00     NO
 VOL156          0   0.25974E-02  487033.5 3616928.2     3.0     5.00     9.30
1.00     NO
 VOL157          0   0.25974E-02  487025.7 3616914.2     2.9     5.00     9.30
1.00     NO
 VOL158          0   0.25974E-02  487016.1 3616896.9     2.6     5.00     9.30
1.00     NO
 VOL159          0   0.25974E-02  487005.7 3616887.3     2.2     5.00     9.30
1.00     NO
 VOL160          0   0.25974E-02  486995.3 3616869.9     1.7     5.00     9.30
1.00     NO
 VOL161          0   0.25974E-02  486979.5 3616856.9     0.7     5.00     9.30
1.00     NO
 VOL162          0   0.25974E-02  486997.1 3616853.8     1.9     5.00     9.30
1.00     NO
 VOL163          0   0.25974E-02  487007.1 3616840.0     1.9     5.00     9.30
1.00     NO
 VOL164          0   0.25974E-02  487017.8 3616825.5     1.7     5.00     9.30
1.00     NO
 VOL165          0   0.25974E-02  487019.7 3616807.9     1.0     5.00     9.30
1.00     NO
 VOL166          0   0.25974E-02  487035.4 3616807.9     1.5     5.00     9.30
1.00     NO
 VOL167          0   0.25974E-02  487054.9 3616812.9     1.8     5.00     9.30
1.00     NO
 VOL168          0   0.25974E-02  487064.3 3616796.0     0.7     5.00     9.30
1.00     NO
 VOL169          0   0.25974E-02  487072.5 3616781.5     0.0     5.00     9.30
1.00     NO
 VOL170          0   0.25974E-02  487079.4 3616767.7     0.0     5.00     9.30
1.00     NO
 VOL171          0   0.25974E-02  487083.8 3616753.9     0.0     5.00     9.30
1.00     NO
 VOL172          0   0.25974E-02  487091.3 3616740.7     0.0     5.00     9.30
1.00     NO
 VOL173          0   0.25974E-02  486821.9 3616950.5     2.4     5.00     9.30
1.00     NO
 VOL174          0   0.25974E-02  486820.4 3616932.8     1.7     5.00     9.30
1.00     NO
 VOL175          0   0.25974E-02  486811.5 3616916.5     0.7     5.00     9.30
1.00     NO
 VOL176          0   0.25974E-02  486806.4 3616899.5     0.0     5.00     9.30
1.00     NO
 VOL177          0   0.25974E-02  486796.0 3616883.3     0.0     5.00     9.30
1.00     NO
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
VOL178	0	0.25974E-02	486789.4	3616868.5	0.0	5.00	9.30	1.00	NO	
VOL179	0	0.25974E-02	486783.5	3616853.7	0.0	5.00	9.30	1.00	NO	
VOL180	0	0.25974E-02	486776.1	3616841.1	0.0	5.00	9.30	1.00	NO	
VOL181	0	0.25974E-02	486771.6	3616826.4	0.0	5.00	9.30	1.00	NO	
VOL182	0	0.25974E-02	486761.3	3616810.1	0.0	5.00	9.30	1.00	NO	
VOL185	0	0.25974E-02	486949.7	3616956.4	1.6	5.00	9.30	1.00	NO	
VOL186	0	0.25974E-02	486949.7	3616940.2	0.3	5.00	9.30	1.00	NO	
VOL187	0	0.25974E-02	486945.3	3616923.2	0.0	5.00	9.30	1.00	NO	
VOL188	0	0.25974E-02	486942.3	3616906.9	0.0	5.00	9.30	1.00	NO	
VOL189	0	0.25974E-02	486933.5	3616891.4	0.0	5.00	9.30	1.00	NO	
VOL190	0	0.25974E-02	486931.2	3616876.6	0.0	5.00	9.30	1.00	NO	
VOL191	0	0.25974E-02	486926.1	3616861.8	0.0	5.00	9.30	1.00	NO	
VOL192	0	0.25974E-02	486923.1	3616844.8	0.0	5.00	9.30	1.00	NO	
VOL193	0	0.25974E-02	486918.7	3616831.5	0.0	5.00	9.30	1.00	NO	
VOL194	0	0.25974E-02	486915.0	3616816.8	0.0	5.00	9.30	1.00	NO	

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 VOL195          0   0.25974E-02  486911.3 3616799.8     0.0     5.00     9.30
1.00     NO
 VOL204          0   0.25974E-02  487094.5 3616725.9     0.0     5.00     9.30
1.00     NO
 VOL205          0   0.25974E-02  487074.6 3616728.1     0.0     5.00     9.30
1.00     NO
 VOL206          0   0.25974E-02  487095.3 3616710.3     0.0     5.00     9.30
1.00     NO
 VOL207          0   0.25974E-02  487094.5 3616697.0     0.0     5.00     9.30
1.00     NO
 VOL208          0   0.25974E-02  487096.0 3616679.3     0.2     5.00     9.30
1.00     NO
 VOL209          0   0.25974E-02  487416.7 3616787.2     3.0     5.00     9.30
1.00     NO
 VOL210          0   0.25974E-02  487419.7 3616765.8     3.0     5.00     9.30
1.00     NO
 VOL211          0   0.25974E-02  487424.1 3616748.0     3.0     5.00     9.30
1.00     NO
 VOL212          0   0.25974E-02  487441.8 3616744.3     3.0     5.00     9.30
1.00     NO
 VOL213          0   0.25974E-02  487437.4 3616766.5     3.2     5.00     9.30
1.00     NO
 VOL214          0   0.25974E-02  487458.8 3616742.1     3.2     5.00     9.30
1.00     NO
 L0001359        0   0.43290E-03  486574.2 3617013.7     2.1     2.55     3.93
1.93     NO
 L0001360        0   0.43290E-03  486581.1 3617008.8     2.6     2.55     3.93
1.93     NO
 L0001361        0   0.43290E-03  486587.9 3617003.9     2.8     2.55     3.93
1.93     NO
 L0001362        0   0.43290E-03  486594.8 3616999.0     2.9     2.55     3.93
1.93     NO
 L0001363        0   0.43290E-03  486601.7 3616994.1     3.0     2.55     3.93
1.93     NO
 L0001364        0   0.43290E-03  486608.5 3616989.8     3.0     2.55     3.93
1.93     NO
 VOL215          0   0.25974E-02  486638.6 3616955.9     3.3     5.00     9.30
1.00     NO
 VOL216          0   0.25974E-02  486693.0 3616922.2     1.1     5.00     9.30
1.00     NO
 L0001538        0   0.15014E-04  486236.6 3618503.4    18.5     2.55     3.93
1.93     NO
 L0001539        0   0.15014E-04  486243.1 3618498.0    18.4     2.55     3.93
1.93     NO
 L0001540        0   0.15014E-04  486249.5 3618492.6    18.1     2.55     3.93
1.93     NO
 L0001541        0   0.15014E-04  486256.0 3618487.1    17.8     2.55     3.93
1.93     NO
 L0001542        0   0.15014E-04  486262.4 3618481.7    17.8     2.55     3.93
1.93     NO
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001543	0	0.15014E-04	486268.9	3618476.2	18.0	2.55	3.93	1.93	NO	
L0001544	0	0.15014E-04	486275.3	3618470.8	18.4	2.55	3.93	1.93	NO	
L0001545	0	0.15014E-04	486281.8	3618465.3	18.8	2.55	3.93	1.93	NO	
L0001546	0	0.15014E-04	486288.2	3618459.9	18.3	2.55	3.93	1.93	NO	
L0001547	0	0.15014E-04	486294.6	3618454.4	18.0	2.55	3.93	1.93	NO	
L0001548	0	0.15014E-04	486301.1	3618449.0	17.8	2.55	3.93	1.93	NO	
L0001549	0	0.15014E-04	486307.5	3618443.5	17.8	2.55	3.93	1.93	NO	
L0001550	0	0.15014E-04	486314.0	3618438.1	17.9	2.55	3.93	1.93	NO	
L0001551	0	0.15014E-04	486320.4	3618432.6	18.0	2.55	3.93	1.93	NO	
L0001552	0	0.15014E-04	486326.9	3618427.2	18.0	2.55	3.93	1.93	NO	
L0001553	0	0.15014E-04	486333.3	3618421.7	18.0	2.55	3.93	1.93	NO	
L0001554	0	0.15014E-04	486339.8	3618416.3	18.0	2.55	3.93	1.93	NO	
L0001555	0	0.15014E-04	486346.2	3618410.8	18.0	2.55	3.93	1.93	NO	
L0001556	0	0.15014E-04	486352.7	3618405.4	18.0	2.55	3.93	1.93	NO	
L0001557	0	0.15014E-04	486359.1	3618399.9	18.0	2.55	3.93	1.93	NO	

L0001558	0	0.15014E-04	486365.6	3618394.5	18.0	2.55	3.93	1.93 NO
L0001559	0	0.15014E-04	486372.0	3618389.1	18.0	2.55	3.93	1.93 NO
L0001560	0	0.15014E-04	486378.5	3618383.6	18.0	2.55	3.93	1.93 NO
L0001561	0	0.15014E-04	486384.9	3618378.2	18.0	2.55	3.93	1.93 NO
L0001562	0	0.15014E-04	486391.3	3618372.7	18.0	2.55	3.93	1.93 NO
L0001563	0	0.15014E-04	486397.8	3618367.3	18.0	2.55	3.93	1.93 NO
L0001564	0	0.15014E-04	486404.2	3618361.8	18.0	2.55	3.93	1.93 NO
L0001565	0	0.15014E-04	486410.7	3618356.4	18.0	2.55	3.93	1.93 NO
L0001566	0	0.15014E-04	486417.1	3618350.9	18.0	2.55	3.93	1.93 NO
L0001567	0	0.15014E-04	486423.6	3618345.5	18.0	2.55	3.93	1.93 NO
L0001568	0	0.15014E-04	486430.0	3618340.0	18.0	2.55	3.93	1.93 NO
L0001569	0	0.15014E-04	486436.5	3618334.6	18.0	2.55	3.93	1.93 NO
L0001570	0	0.15014E-04	486442.9	3618329.1	18.0	2.55	3.93	1.93 NO
L0001571	0	0.15014E-04	486449.4	3618323.7	18.0	2.55	3.93	1.93 NO
L0001572	0	0.15014E-04	486455.8	3618318.2	18.0	2.55	3.93	1.93 NO
L0001573	0	0.15014E-04	486462.3	3618312.8	18.0	2.55	3.93	1.93 NO
L0001574	0	0.15014E-04	486468.7	3618307.3	18.0	2.55	3.93	1.93 NO
L0001575	0	0.15014E-04	486475.2	3618301.9	18.0	2.55	3.93	1.93 NO
L0001576	0	0.15014E-04	486481.6	3618296.4	18.0	2.55	3.93	1.93 NO
L0001577	0	0.15014E-04	486488.1	3618291.0	18.0	2.55	3.93	1.93 NO
L0001578	0	0.15014E-04	486494.5	3618285.6	18.0	2.55	3.93	1.93 NO
L0001579	0	0.15014E-04	486500.9	3618280.1	18.0	2.55	3.93	1.93 NO
L0001580	0	0.15014E-04	486507.4	3618274.7	18.0	2.55	3.93	1.93 NO
L0001581	0	0.15014E-04	486513.8	3618269.2	18.0	2.55	3.93	1.93 NO
L0001582	0	0.15014E-04	486520.3	3618263.8	18.0	2.55	3.93	1.93 NO

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001583	0	0.15014E-04	486526.7	3618258.3	18.0	2.55	3.93	1.93	NO	
L0001584	0	0.15014E-04	486533.2	3618252.9	18.0	2.55	3.93	1.93	NO	
L0001585	0	0.15014E-04	486539.6	3618247.4	18.0	2.55	3.93	1.93	NO	
L0001586	0	0.15014E-04	486546.1	3618242.0	18.0	2.55	3.93	1.93	NO	
L0001587	0	0.15014E-04	486552.5	3618236.5	18.0	2.55	3.93	1.93	NO	
L0001588	0	0.15014E-04	486559.0	3618231.1	18.0	2.55	3.93	1.93	NO	
L0001589	0	0.15014E-04	486565.4	3618225.6	18.0	2.55	3.93	1.93	NO	
L0001590	0	0.15014E-04	486571.9	3618220.2	18.0	2.55	3.93	1.93	NO	
L0001591	0	0.15014E-04	486578.3	3618214.7	18.0	2.55	3.93	1.93	NO	
L0001592	0	0.15014E-04	486584.8	3618209.3	18.0	2.55	3.93	1.93	NO	
L0001593	0	0.15014E-04	486591.2	3618203.8	18.0	2.55	3.93	1.93	NO	
L0001594	0	0.15014E-04	486597.6	3618198.4	18.0	2.55	3.93	1.93	NO	
L0001595	0	0.15014E-04	486604.1	3618192.9	18.0	2.55	3.93	1.93	NO	
L0001596	0	0.15014E-04	486610.5	3618187.5	18.0	2.55	3.93	1.93	NO	
L0001597	0	0.15014E-04	486617.0	3618182.1	18.0	2.55	3.93	1.93	NO	

L0001598	0	0.15014E-04	486623.4	3618176.6	18.0	2.55	3.93	1.93 NO
L0001599	0	0.15014E-04	486629.9	3618171.2	18.0	2.55	3.93	1.93 NO
L0001600	0	0.15014E-04	486636.3	3618165.7	18.0	2.55	3.93	1.93 NO
L0001601	0	0.15014E-04	486642.8	3618160.3	18.0	2.55	3.93	1.93 NO
L0001602	0	0.15014E-04	486649.2	3618154.8	18.0	2.55	3.93	1.93 NO
L0001603	0	0.15014E-04	486655.7	3618149.4	18.0	2.55	3.93	1.93 NO
L0001604	0	0.15014E-04	486662.1	3618143.9	18.0	2.55	3.93	1.93 NO
L0001605	0	0.15014E-04	486668.6	3618138.5	18.0	2.55	3.93	1.93 NO
L0001606	0	0.15014E-04	486675.0	3618133.0	18.1	2.55	3.93	1.93 NO
L0001607	0	0.15014E-04	486681.5	3618127.6	18.3	2.55	3.93	1.93 NO
L0001608	0	0.15014E-04	486687.9	3618122.1	18.5	2.55	3.93	1.93 NO
L0001609	0	0.15014E-04	486694.3	3618116.7	18.6	2.55	3.93	1.93 NO
L0001610	0	0.15014E-04	486700.8	3618111.2	18.8	2.55	3.93	1.93 NO
L0001611	0	0.15014E-04	486707.2	3618105.8	19.0	2.55	3.93	1.93 NO
L0001612	0	0.15014E-04	486713.7	3618100.3	19.1	2.55	3.93	1.93 NO
L0001613	0	0.15014E-04	486720.1	3618094.9	19.3	2.55	3.93	1.93 NO
L0001614	0	0.15014E-04	486726.6	3618089.4	19.5	2.55	3.93	1.93 NO
L0001615	0	0.15014E-04	486733.0	3618084.0	19.9	2.55	3.93	1.93 NO
L0001616	0	0.15014E-04	486739.5	3618078.6	20.3	2.55	3.93	1.93 NO
L0001617	0	0.15014E-04	486745.9	3618073.1	20.6	2.55	3.93	1.93 NO
L0001618	0	0.15014E-04	486752.4	3618067.7	20.8	2.55	3.93	1.93 NO
L0001619	0	0.15014E-04	486758.8	3618062.2	21.0	2.55	3.93	1.93 NO
L0001620	0	0.15014E-04	486765.3	3618056.8	21.3	2.55	3.93	1.93 NO
L0001621	0	0.15014E-04	486771.7	3618051.3	21.5	2.55	3.93	1.93 NO
L0001622	0	0.15014E-04	486778.2	3618045.9	21.6	2.55	3.93	1.93 NO

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001623	0	0.15014E-04	486784.6	3618040.4	21.9	2.55	3.93	1.93	NO	
L0001624	0	0.15014E-04	486791.0	3618035.0	22.1	2.55	3.93	1.93	NO	
L0001625	0	0.15014E-04	486797.5	3618029.5	22.4	2.55	3.93	1.93	NO	
L0001626	0	0.15014E-04	486803.9	3618024.1	22.6	2.55	3.93	1.93	NO	
L0001627	0	0.15014E-04	486810.4	3618018.6	22.8	2.55	3.93	1.93	NO	
L0001628	0	0.15014E-04	486816.8	3618013.2	22.8	2.55	3.93	1.93	NO	
L0001629	0	0.15014E-04	486823.3	3618007.7	22.4	2.55	3.93	1.93	NO	
L0001630	0	0.15014E-04	486829.7	3618002.3	22.1	2.55	3.93	1.93	NO	
L0001631	0	0.15014E-04	486836.2	3617996.8	21.7	2.55	3.93	1.93	NO	
L0001632	0	0.15014E-04	486842.6	3617991.4	21.4	2.55	3.93	1.93	NO	
L0001633	0	0.15014E-04	486849.1	3617985.9	21.0	2.55	3.93	1.93	NO	
L0001634	0	0.15014E-04	486855.5	3617980.5	20.9	2.55	3.93	1.93	NO	
L0001635	0	0.15014E-04	486862.0	3617975.1	20.7	2.55	3.93	1.93	NO	
L0001636	0	0.15014E-04	486868.4	3617969.6	20.1	2.55	3.93	1.93	NO	
L0001637	0	0.15014E-04	486874.9	3617964.2	19.4	2.55	3.93	1.93	NO	

L0001638	0	0.15014E-04	486881.3	3617958.7	18.7	2.55	3.93	1.93 NO
L0001639	0	0.15014E-04	486887.7	3617953.3	18.9	2.55	3.93	1.93 NO
L0001640	0	0.15014E-04	486894.2	3617947.8	19.2	2.55	3.93	1.93 NO
L0001641	0	0.15014E-04	486900.6	3617942.4	19.3	2.55	3.93	1.93 NO
L0001642	0	0.15014E-04	486907.1	3617936.9	19.1	2.55	3.93	1.93 NO
L0001643	0	0.15014E-04	486913.5	3617931.5	18.8	2.55	3.93	1.93 NO
L0001644	0	0.15014E-04	486920.0	3617926.0	18.7	2.55	3.93	1.93 NO
L0001645	0	0.15014E-04	486926.4	3617920.6	19.1	2.55	3.93	1.93 NO
L0001646	0	0.15014E-04	486932.9	3617915.1	19.4	2.55	3.93	1.93 NO
L0001647	0	0.15014E-04	486939.3	3617909.7	19.5	2.55	3.93	1.93 NO
L0001648	0	0.15014E-04	486945.8	3617904.2	19.6	2.55	3.93	1.93 NO
L0001649	0	0.15014E-04	486952.2	3617898.8	19.6	2.55	3.93	1.93 NO
L0001650	0	0.15014E-04	486958.7	3617893.3	19.6	2.55	3.93	1.93 NO
L0001651	0	0.15014E-04	486965.1	3617887.9	19.6	2.55	3.93	1.93 NO
L0001652	0	0.15014E-04	486971.6	3617882.4	19.6	2.55	3.93	1.93 NO
L0001653	0	0.15014E-04	486978.0	3617877.0	19.6	2.55	3.93	1.93 NO
L0001654	0	0.15014E-04	486984.4	3617871.6	19.4	2.55	3.93	1.93 NO
L0001655	0	0.15014E-04	486990.9	3617866.1	19.0	2.55	3.93	1.93 NO
L0001656	0	0.15014E-04	486997.3	3617860.7	19.0	2.55	3.93	1.93 NO
L0001657	0	0.15014E-04	487003.8	3617855.2	19.1	2.55	3.93	1.93 NO
L0001658	0	0.15014E-04	487010.2	3617849.8	19.1	2.55	3.93	1.93 NO
L0001659	0	0.15014E-04	487016.7	3617844.3	18.9	2.55	3.93	1.93 NO
L0001660	0	0.15014E-04	487023.1	3617838.9	18.4	2.55	3.93	1.93 NO
L0001661	0	0.15014E-04	487029.6	3617833.4	18.1	2.55	3.93	1.93 NO
L0001662	0	0.15014E-04	487036.0	3617828.0	18.5	2.55	3.93	1.93 NO

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001663	0	0.15014E-04	487042.5	3617822.5	18.7	2.55	3.93	1.93	NO	
L0001664	0	0.15014E-04	487048.9	3617817.1	18.7	2.55	3.93	1.93	NO	
L0001665	0	0.15014E-04	487055.4	3617811.6	18.4	2.55	3.93	1.93	NO	
L0001666	0	0.15014E-04	487061.8	3617806.2	18.2	2.55	3.93	1.93	NO	
L0001667	0	0.15014E-04	487068.3	3617800.7	18.5	2.55	3.93	1.93	NO	
L0001668	0	0.15014E-04	487074.7	3617795.3	18.7	2.55	3.93	1.93	NO	
L0001669	0	0.15014E-04	487081.1	3617789.8	18.7	2.55	3.93	1.93	NO	
L0001670	0	0.15014E-04	487087.6	3617784.4	18.5	2.55	3.93	1.93	NO	
L0001671	0	0.15014E-04	487094.0	3617778.9	18.4	2.55	3.93	1.93	NO	
L0001672	0	0.15014E-04	487100.5	3617773.5	18.4	2.55	3.93	1.93	NO	
L0001673	0	0.15014E-04	487106.9	3617768.1	18.4	2.55	3.93	1.93	NO	
L0001674	0	0.15014E-04	487113.4	3617762.6	18.4	2.55	3.93	1.93	NO	
L0001675	0	0.15014E-04	487119.8	3617757.2	18.4	2.55	3.93	1.93	NO	
L0001676	0	0.15014E-04	487126.3	3617751.7	18.2	2.55	3.93	1.93	NO	
L0001677	0	0.15014E-04	487132.7	3617746.3	18.0	2.55	3.93	1.93	NO	

L0001678	0	0.15014E-04	487139.2	3617740.8	18.0	2.55	3.93	1.93 NO
L0001679	0	0.15014E-04	487145.6	3617735.4	18.0	2.55	3.93	1.93 NO
L0001680	0	0.15014E-04	487152.1	3617729.9	18.1	2.55	3.93	1.93 NO
L0001681	0	0.15014E-04	487158.5	3617724.5	18.1	2.55	3.93	1.93 NO
L0001682	0	0.15014E-04	487165.0	3617719.0	18.1	2.55	3.93	1.93 NO
L0001683	0	0.15014E-04	487171.4	3617713.6	17.9	2.55	3.93	1.93 NO
L0001684	0	0.15014E-04	487177.8	3617708.1	17.8	2.55	3.93	1.93 NO
L0001685	0	0.15014E-04	487184.3	3617702.7	17.7	2.55	3.93	1.93 NO
L0001686	0	0.15014E-04	487190.7	3617697.2	17.5	2.55	3.93	1.93 NO
L0001687	0	0.15014E-04	487197.2	3617691.8	17.3	2.55	3.93	1.93 NO
L0001688	0	0.15014E-04	487203.6	3617686.3	17.0	2.55	3.93	1.93 NO
L0001689	0	0.15014E-04	487210.1	3617680.9	16.5	2.55	3.93	1.93 NO
L0001690	0	0.15014E-04	487216.5	3617675.4	16.2	2.55	3.93	1.93 NO
L0001691	0	0.15014E-04	487223.0	3617670.0	15.9	2.55	3.93	1.93 NO
L0001692	0	0.15014E-04	487229.4	3617664.6	15.5	2.55	3.93	1.93 NO
L0001693	0	0.15014E-04	487235.9	3617659.1	15.2	2.55	3.93	1.93 NO
L0001694	0	0.15014E-04	487242.3	3617653.7	15.0	2.55	3.93	1.93 NO
L0001695	0	0.15014E-04	487248.8	3617648.2	15.0	2.55	3.93	1.93 NO
L0001696	0	0.15014E-04	487255.2	3617642.8	14.7	2.55	3.93	1.93 NO
L0001697	0	0.15014E-04	487261.7	3617637.3	14.3	2.55	3.93	1.93 NO
L0001698	0	0.15014E-04	487268.1	3617631.9	13.8	2.55	3.93	1.93 NO
L0001699	0	0.15014E-04	487274.5	3617626.4	13.4	2.55	3.93	1.93 NO
L0001700	0	0.15014E-04	487281.0	3617621.0	13.7	2.55	3.93	1.93 NO
L0001701	0	0.15014E-04	487287.4	3617615.5	13.8	2.55	3.93	1.93 NO
L0001702	0	0.15014E-04	487293.9	3617610.1	13.8	2.55	3.93	1.93 NO

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001703	0	0.15014E-04	487300.3	3617604.6	13.6	2.55	3.93	1.93	NO	
L0001704	0	0.15014E-04	487306.8	3617599.2	13.5	2.55	3.93	1.93	NO	
L0001705	0	0.15014E-04	487313.2	3617593.7	13.4	2.55	3.93	1.93	NO	
L0001706	0	0.15014E-04	487319.7	3617588.3	13.5	2.55	3.93	1.93	NO	
L0001707	0	0.15014E-04	487326.1	3617582.8	13.5	2.55	3.93	1.93	NO	
L0001708	0	0.15014E-04	487332.6	3617577.4	13.6	2.55	3.93	1.93	NO	
L0001709	0	0.15014E-04	487339.0	3617571.9	13.5	2.55	3.93	1.93	NO	
L0001710	0	0.15014E-04	487345.5	3617566.5	13.1	2.55	3.93	1.93	NO	
VOL217	0	0.25974E-02	487488.9	3616699.9	2.1	5.00	9.30	1.00	NO	
VOL241	0	0.25974E-02	487359.9	3616648.1	0.8	5.00	9.30	1.00	NO	
VOL242	0	0.25974E-02	487352.5	3616635.6	0.0	5.00	9.30	1.00	NO	
VOL243	0	0.25974E-02	487339.6	3616621.6	0.0	5.00	9.30	1.00	NO	
VOL244	0	0.25974E-02	487071.5	3616614.5	2.4	5.00	9.30	1.00	NO	
VOL245	0	0.25974E-02	487025.0	3616623.1	0.7	5.00	9.30	1.00	NO	
VOL246	0	0.25974E-02	487047.4	3616629.7	1.5	5.00	9.30	1.00	NO	

```
 VOL247          0   0.25974E-02  487094.8 3616621.5     1.8     5.00     9.30
1.00     NO
 VOL248          0   0.25974E-02  487027.0 3616601.3     1.9     5.00     9.30
1.00     NO
 VOL249          0   0.25974E-02  487073.6 3616593.3     1.9     5.00     9.30
1.00     NO
 VOL250          0   0.25974E-02  487049.4 3616607.9     2.6     5.00     9.30
1.00     NO
 VOL251          0   0.25974E-02  487094.8 3616600.0     1.3     5.00     9.30
1.00     NO
 VOL252          0   0.25974E-02  487028.2 3616641.8     0.0     5.00     9.30
1.00     NO
 VOL253          0   0.25974E-02  487050.6 3616648.4     0.8     5.00     9.30
1.00     NO
 VOL254          0   0.25974E-02  487006.8 3616616.8     0.3     5.00     9.30
1.00     NO
 VOL255          0   0.25974E-02  487008.8 3616595.1     0.9     5.00     9.30
1.00     NO
 VOL256          0   0.25974E-02  487010.0 3616635.6     0.0     5.00     9.30
1.00     NO
 VOL257          0   0.25974E-02  486984.7 3616614.5     0.0     5.00     9.30
1.00     NO
 VOL258          0   0.25974E-02  486986.7 3616592.7     0.3     5.00     9.30
1.00     NO
 VOL259          0   0.25974E-02  486987.9 3616633.2     0.0     5.00     9.30
1.00     NO
 VOL260          0   0.25974E-02  486961.8 3616597.1     0.0     5.00     9.30
1.00     NO
 VOL262          0   0.25974E-02  486965.0 3616615.8     0.0     5.00     9.30
1.00     NO
 VOL263          0   0.25974E-02  487335.0 3616601.9     0.0     5.00     9.30
1.00     NO
 VOL264          0   0.25974E-02  487327.6 3616589.4     0.0     5.00     9.30
1.00     NO
 VOL265          0   0.25974E-02  487314.7 3616575.5     0.0     5.00     9.30
1.00     NO
 VOL266          0   0.25974E-02  487307.3 3616556.9     0.0     5.00     9.30
1.00     NO
 VOL267          0   0.25974E-02  487299.9 3616544.3     0.0     5.00     9.30
1.00     NO
 VOL268          0   0.25974E-02  487287.0 3616530.4     0.0     5.00     9.30
1.00     NO
 VOL269          0   0.25974E-02  487281.2 3616512.6     0.0     5.00     9.30
1.00     NO
 VOL270          0   0.25974E-02  487273.8 3616500.0     0.0     5.00     9.30
1.00     NO
 VOL271          0   0.25974E-02  487260.9 3616486.1     0.0     5.00     9.30
1.00     NO
 VOL272          0   0.25974E-02  487252.7 3616473.0     0.0     5.00     9.30
1.00     NO
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
VOL273	0	0.25974E-02	487245.3	3616460.5	0.0	5.00	9.30	1.00	NO	
VOL274	0	0.25974E-02	487321.9	3616620.5	0.0	5.00	9.30	1.00	NO	
VOL275	0	0.25974E-02	487314.6	3616608.0	0.0	5.00	9.30	1.00	NO	
VOL276	0	0.25974E-02	487301.7	3616594.0	0.0	5.00	9.30	1.00	NO	
VOL277	0	0.25974E-02	487294.3	3616575.5	0.0	5.00	9.30	1.00	NO	
VOL278	0	0.25974E-02	487286.9	3616562.9	0.0	5.00	9.30	1.00	NO	
VOL279	0	0.25974E-02	487274.0	3616549.0	0.0	5.00	9.30	1.00	NO	
VOL280	0	0.25974E-02	487268.2	3616531.2	0.0	5.00	9.30	1.00	NO	
VOL281	0	0.25974E-02	487260.8	3616518.6	0.0	5.00	9.30	1.00	NO	
VOL282	0	0.25974E-02	487247.9	3616504.7	0.0	5.00	9.30	1.00	NO	
VOL283	0	0.25974E-02	487239.7	3616491.6	0.0	5.00	9.30	1.00	NO	
VOL284	0	0.25974E-02	486921.7	3616910.0	0.0	5.00	9.30	1.00	NO	
VOL285	0	0.25974E-02	486917.3	3616893.0	0.0	5.00	9.30	1.00	NO	
VOL286	0	0.25974E-02	486914.3	3616876.7	0.0	5.00	9.30	1.00	NO	
VOL287	0	0.25974E-02	486905.5	3616861.2	0.0	5.00	9.30	1.00	NO	

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 VOL288          0   0.25974E-02  486903.2 3616846.4     0.0     5.00     9.30
1.00     NO
 VOL289          0   0.25974E-02  486898.1 3616831.6     0.0     5.00     9.30
1.00     NO
 VOL290          0   0.25974E-02  486895.1 3616814.6     0.0     5.00     9.30
1.00     NO
 VOL291          0   0.25974E-02  486890.7 3616801.3     0.0     5.00     9.30
1.00     NO
 VOL292          0   0.25974E-02  486887.0 3616786.6     0.0     5.00     9.30
1.00     NO
 VOL293          0   0.25974E-02  486883.3 3616769.6     0.0     5.00     9.30
1.00     NO
 VOL294          0   0.25974E-02  486902.9 3616913.4     0.0     5.00     9.30
1.00     NO
 VOL295          0   0.25974E-02  486898.4 3616896.4     0.0     5.00     9.30
1.00     NO
 VOL296          0   0.25974E-02  486895.5 3616880.1     0.0     5.00     9.30
1.00     NO
 VOL297          0   0.25974E-02  486886.6 3616864.6     0.0     5.00     9.30
1.00     NO
 VOL298          0   0.25974E-02  486884.4 3616849.8     0.0     5.00     9.30
1.00     NO
 VOL299          0   0.25974E-02  486879.2 3616835.1     0.0     5.00     9.30
1.00     NO
 VOL300          0   0.25974E-02  486876.3 3616818.1     0.0     5.00     9.30
1.00     NO
 VOL301          0   0.25974E-02  486871.8 3616804.8     0.0     5.00     9.30
1.00     NO
 VOL302          0   0.25974E-02  486868.1 3616790.0     0.0     5.00     9.30
1.00     NO
 VOL303          0   0.25974E-02  486864.4 3616773.0     0.0     5.00     9.30
1.00     NO
 VOL304          0   0.25974E-02  486889.1 3616749.8     0.0     5.00     9.30
1.00     NO
 VOL305          0   0.25974E-02  486886.2 3616732.8     0.0     5.00     9.30
1.00     NO
 VOL306          0   0.25974E-02  486881.7 3616719.5     0.0     5.00     9.30
1.00     NO
 VOL307          0   0.25974E-02  486878.0 3616704.7     0.0     5.00     9.30
1.00     NO
 VOL308          0   0.25974E-02  486874.3 3616687.7     0.0     5.00     9.30
1.00     NO
 VOL309          0   0.25974E-02  486868.5 3616749.2     0.0     5.00     9.30
1.00     NO
 VOL310          0   0.25974E-02  486866.3 3616734.4     0.0     5.00     9.30
1.00     NO
 VOL311          0   0.25974E-02  486861.1 3616719.6     0.0     5.00     9.30
1.00     NO
 VOL312          0   0.25974E-02  486858.2 3616702.6     0.0     5.00     9.30
1.00     NO
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
VOL313	0	0.25974E-02	486853.7	3616689.3	0.0	5.00	9.30	1.00	NO	
VOL316	0	0.25974E-02	486847.4	3616737.8	0.0	5.00	9.30	1.00	NO	
VOL317	0	0.25974E-02	486842.2	3616723.0	0.0	5.00	9.30	1.00	NO	
VOL318	0	0.25974E-02	486839.3	3616706.0	0.0	5.00	9.30	1.00	NO	
VOL319	0	0.25974E-02	486834.9	3616692.7	0.0	5.00	9.30	1.00	NO	
VOL320	0	0.25974E-02	486852.0	3616762.4	0.0	5.00	9.30	1.00	NO	
VOL321	0	0.25974E-02	486848.3	3616745.4	0.0	5.00	9.30	1.00	NO	
VOL322	0	0.25974E-02	486907.5	3616779.0	0.0	5.00	9.30	1.00	NO	
VOL323	0	0.25974E-02	486903.8	3616762.0	0.0	5.00	9.30	1.00	NO	
VOL324	0	0.25974E-02	486756.1	3616797.6	0.0	5.00	9.30	1.00	NO	
VOL325	0	0.25974E-02	486745.0	3616786.9	0.0	5.00	9.30	1.00	NO	
VOL326	0	0.25974E-02	486764.8	3616857.4	0.0	5.00	9.30	1.00	NO	
VOL327	0	0.25974E-02	486754.5	3616841.2	0.0	5.00	9.30	1.00	NO	
VOL328	0	0.25974E-02	486791.8	3616900.0	0.0	5.00	9.30	1.00	NO	
VOL329	0	0.25974E-02	486781.4	3616883.7	0.0	5.00	9.30	1.00	NO	

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 VOL330          0   0.25974E-02  486947.0 3616608.5     0.0     5.00     9.30
1.00     NO
 VOL331          0   0.25974E-02  486934.5 3616617.5     0.0     5.00     9.30
1.00     NO
 VOL332          0   0.25974E-02  486994.0 3616575.0     0.8     5.00     9.30
1.00     NO
 VOL333          0   0.25974E-02  486981.5 3616583.9     0.3     5.00     9.30
1.00     NO
 VOL334          0   0.25974E-02  487019.5 3616561.8     0.9     5.00     9.30
1.00     NO
 VOL335          0   0.25974E-02  487007.1 3616570.8     1.1     5.00     9.30
1.00     NO
 VOL336          0   0.25974E-02  487046.5 3616541.1     0.0     5.00     9.30
1.00     NO
 VOL337          0   0.25974E-02  487034.0 3616550.1     0.3     5.00     9.30
1.00     NO
 VOL338          0   0.25974E-02  487030.4 3616580.9     2.0     5.00     9.30
1.00     NO
 VOL339          0   0.25974E-02  487051.5 3616587.6     2.3     5.00     9.30
1.00     NO
 VOL340          0   0.25974E-02  486996.5 3616655.6     0.0     5.00     9.30
1.00     NO
 VOL341          0   0.25974E-02  487017.7 3616662.3     0.0     5.00     9.30
1.00     NO
 VOL342          0   0.25974E-02  487197.6 3616618.4     0.0     5.00     9.30
1.00     NO
 VOL343          0   0.25974E-02  487203.4 3616598.6     0.0     5.00     9.30
1.00     NO
 VOL344          0   0.25974E-02  487200.4 3616581.6     0.0     5.00     9.30
1.00     NO
 VOL345          0   0.25974E-02  487196.0 3616568.3     0.0     5.00     9.30
1.00     NO
 VOL346          0   0.25974E-02  487192.3 3616553.6     0.0     5.00     9.30
1.00     NO
 VOL347          0   0.25974E-02  487188.6 3616536.6     0.0     5.00     9.30
1.00     NO
 VOL348          0   0.25974E-02  487182.8 3616598.0     0.0     5.00     9.30
1.00     NO
 VOL349          0   0.25974E-02  487180.6 3616583.2     0.0     5.00     9.30
1.00     NO
 VOL350          0   0.25974E-02  487175.4 3616568.4     0.0     5.00     9.30
1.00     NO
 VOL351          0   0.25974E-02  487172.4 3616551.4     0.0     5.00     9.30
1.00     NO
 VOL352          0   0.25974E-02  487168.0 3616538.1     0.0     5.00     9.30
1.00     NO
 VOL353          0   0.25974E-02  487161.7 3616586.7     0.0     5.00     9.30
1.00     NO
 VOL354          0   0.25974E-02  487156.5 3616571.9     0.0     5.00     9.30
1.00     NO
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
VOL355	0	0.25974E-02	487153.6	3616554.9	0.0	5.00	9.30	1.00	NO	
VOL356	0	0.25974E-02	487149.1	3616541.6	0.0	5.00	9.30	1.00	NO	
VOL358	0	0.25974E-02	487162.6	3616594.3	0.0	5.00	9.30	1.00	NO	
VOL359	0	0.25974E-02	487218.1	3616610.9	0.0	5.00	9.30	1.00	NO	
VOL360	0	0.25974E-02	487152.6	3616524.4	0.0	5.00	9.30	1.00	NO	
VOL361	0	0.25974E-02	487158.5	3616504.6	0.0	5.00	9.30	1.00	NO	
VOL362	0	0.25974E-02	487155.5	3616487.6	0.0	5.00	9.30	1.00	NO	
VOL366	0	0.25974E-02	487137.9	3616504.0	0.0	5.00	9.30	1.00	NO	
VOL367	0	0.25974E-02	487135.6	3616489.2	0.0	5.00	9.30	1.00	NO	
VOL371	0	0.25974E-02	487116.8	3616492.7	0.0	5.00	9.30	1.00	NO	
VOL372	0	0.25974E-02	487134.6	3616522.3	0.0	5.00	9.30	1.00	NO	
VOL376	0	0.25974E-02	487117.7	3616500.3	0.0	5.00	9.30	1.00	NO	
VOL377	0	0.25974E-02	487173.1	3616516.9	0.0	5.00	9.30	1.00	NO	
VOL378	0	0.25974E-02	487077.4	3616687.4	0.0	5.00	9.30	1.00	NO	
VOL379	0	0.25974E-02	487075.4	3616709.1	0.0	5.00	9.30	1.00	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS
***

SRCGROUP ID	SOURCE IDs
HAUL	HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 ,
	HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 ,
	HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 ,
	HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , HAUL0029 , HAUL0030 , HAUL0031 , HAUL0032 ,
	HAUL0033 , HAUL0034 , HAUL0035 , HAUL0036 , HAUL0037 , HAUL0038 , HAUL0039 , HAUL0040 ,
	HAUL0041 , HAUL0042 , HAUL0043 , HAUL0044 , HAUL0045 , HAUL0046 , HAUL0047 , HAUL0048 ,
	HAUL0049 , HAUL0050 , HAUL0051 , HAUL0052 , HAUL0053 , HAUL0054 , HAUL0055 , HAUL0056 ,
	HAUL0057 , HAUL0058 , HAUL0059 , HAUL0060 , HAUL0061 ,

HAUL0062   , HAUL0063   , HAUL0064   ,

             HAUL0065   , HAUL0066   , HAUL0067   , HAUL0068   , HAUL0069   ,
HAUL0070   , HAUL0071   , HAUL0072   ,

             HAUL0073   , HAUL0074   , HAUL0075   , HAUL0076   , HAUL0077   ,
HAUL0078   , HAUL0079   , HAUL0080   ,

             HAUL0081   , HAUL0082   , HAUL0083   , HAUL0084   , HAUL0085   ,
HAUL0086   , HAUL0087   , HAUL0088   ,

             HAUL0089   , HAUL0090   , HAUL0091   , HAUL0092   , HAUL0093   ,
HAUL0094   , HAUL0095   , HAUL0096   ,

             HAUL0097   , HAUL0098   , HAUL0099   , HAUL0100   , HAUL0101   ,
HAUL0102   , HAUL0103   , HAUL0104   ,

             HAUL0105   , HAUL0106   , HAUL0107   , HAUL0108   , HAUL0109   ,
HAUL0110   , HAUL0111   , HAUL0112   ,

             HAUL0113   , HAUL0114   , HAUL0115   , HAUL0116   , HAUL0117   ,
HAUL0118   , HAUL0119   , HAUL0120   ,

             HAUL0121   , HAUL0122   , HAUL0123   , HAUL0124   , HAUL0125   ,
HAUL0126   , HAUL0127   , HAUL0128   ,

             HAUL0129   , HAUL0130   , HAUL0131   , HAUL0132   , HAUL0133   ,
HAUL0134   , HAUL0135   , HAUL0136   ,

             HAUL0137   , HAUL0138   , HAUL0139   , HAUL0140   , HAUL0141   ,
HAUL0142   , HAUL0143   , HAUL0144   ,

             HAUL0145   , HAUL0146   , HAUL0147   , HAUL0148   , HAUL0149   ,
HAUL0150   , HAUL0151   , HAUL0152   ,

             HAUL0153   , HAUL0154   , HAUL0155   , HAUL0156   , HAUL0157   ,
HAUL0158   , HAUL0159   , HAUL0160   ,

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                                          *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID   SOURCE IDs

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             HAUL0161    , HAUL0162    , HAUL0163    , HAUL0164    , HAUL0165    ,
HAUL0166    , HAUL0167    , HAUL0168    ,

             HAUL0169    , HAUL0170    , HAUL0171    , HAUL0172    , HAUL0173    ,
HAUL0174    , HAUL0175    , HAUL0176    ,

             HAUL0177    , HAUL0178    , HAUL0179    , HAUL0180    , HAUL0181    ,
HAUL0182    , HAUL0183    , HAUL0184    ,

             HAUL0185    , HAUL0186    , HAUL0187    , HAUL0188    , HAUL0189    ,
HAUL0190    , HAUL0191    , HAUL0192    ,

             HAUL0193    , HAUL0194    , HAUL0195    , HAUL0196    , HAUL0197    ,
HAUL0198    , HAUL0199    , HAUL0200    ,

             HAUL0201    , HAUL0202    , HAUL0203    , L0001359    , L0001360    ,
L0001361    , L0001362    , L0001363    ,

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** SOURCE IDs DEFINING SOURCE GROUPS
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VOL7        , VOL8        , VOL9        ,

             VOL10       , VOL11       , VOL12       , VOL13       , VOL14       ,
VOL15       , VOL16       , VOL17       ,

             VOL18       , VOL19       , VOL20       , VOL21       , VOL22       ,
VOL23       , VOL24       , VOL25       ,

             VOL26       , VOL27       , VOL28       , VOL29       , VOL30       ,
VOL31       , VOL32       , VOL33       ,

             VOL34       , VOL35       , VOL36       , VOL37       , VOL38       ,
VOL39       , VOL40       , VOL41       ,

             VOL42       , VOL43       , VOL44       , VOL45       , VOL46       ,
VOL47       , VOL48       , VOL49       ,

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VOL55       , VOL56       , VOL57       ,

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VOL63       , VOL64       , VOL65       ,

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VOL71       , VOL72       , VOL73       ,

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VOL79       , VOL80       , VOL81       ,

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VOL87       , VOL88       , VOL89       ,

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VOL95       , VOL96       , VOL97       ,
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                                   PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data


                                              *** SOURCE IDs DEFINING SOURCE GROUPS
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VOL132      , VOL133      , VOL134      ,

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VOL140      , VOL141      , VOL142      ,

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VOL164      , VOL165      , VOL166      ,

            VOL167      , VOL168      , VOL169      , VOL170      , VOL171      ,
VOL172      , VOL173      , VOL174      ,

            VOL175      , VOL176      , VOL177      , VOL178      , VOL179      ,
VOL180      , VOL181      , VOL182      ,

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VOL190      , VOL191      , VOL192      ,

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VOL206      , VOL207      , VOL208      ,

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VOL214      , VOL215      , VOL216      ,

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VOL253      , VOL254      , VOL255      ,

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VOL262      , VOL263      , VOL264      ,

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VOL286       , VOL287      , VOL288      ,

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VOL294       , VOL295      , VOL296      ,

             VOL297      , VOL298      , VOL299      , VOL300      , VOL301      ,
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                                        *** SOURCE IDs DEFINING SOURCE GROUPS
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                                        *** SOURCE IDs DEFINING SOURCE GROUPS
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VOL3        , VOL5        , VOL6        ,

             VOL7        , VOL8        , VOL9        , VOL10       , VOL11       ,
VOL12       , VOL13       , VOL14       ,

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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VOL161       , VOL162      , VOL163      ,

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VOL169       , VOL170      , VOL171      ,

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VOL177       , VOL178      , VOL179      ,

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VOL187       , VOL188      , VOL189      ,

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VOL211       , VOL212      , VOL213      ,

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 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
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                                  PAGE  27
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data


                                          *** SOURCE IDs DEFINING SOURCE GROUPS
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*** SOURCE IDs DEFINING SOURCE GROUPS
***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

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(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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     (488120.6, 3616700.5, 3.0, 3.0, 1.8); (488170.6,
3616700.5, 3.0, 3.0, 1.8);
     (488220.6, 3616700.5, 3.0, 3.0, 1.8); (488270.6,
3616700.5, 3.0, 3.0, 1.8);
     (488320.6, 3616700.5, 4.0, 4.0, 1.8); (488370.6,
3616700.5, 5.0, 5.0, 1.8);
     (488420.6, 3616700.5, 5.0, 5.0, 1.8); (488470.6,
3616700.5, 5.0, 5.0, 1.8);
     (488520.6, 3616700.5, 5.1, 5.1, 1.8); (488570.6,
3616700.5, 5.1, 5.1, 1.8);
     (488620.6, 3616700.5, 5.0, 5.0, 1.8); (487470.6,
3616750.5, 3.6, 3.6, 1.8);
     (487520.6, 3616750.5, 3.2, 3.2, 1.8); (487570.6,
3616750.5, 2.8, 2.8, 1.8);
     (487620.6, 3616750.5, 2.8, 2.8, 1.8); (487670.6,
3616750.5, 2.8, 2.8, 1.8);
     (487720.6, 3616750.5, 2.8, 2.8, 1.8); (487770.6,
3616750.5, 2.8, 2.8, 1.8);

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                          (METERS)

     (487820.6, 3616750.5, 2.8, 2.8, 1.8); (487870.6,
3616750.5, 2.8, 2.8, 1.8);
     (487920.6, 3616750.5, 2.8, 2.8, 1.8); (487970.6,
3616750.5, 2.9, 2.9, 1.8);
     (488020.6, 3616750.5, 3.0, 3.0, 1.8); (488070.6,
3616750.5, 3.0, 3.0, 1.8);
     (488120.6, 3616750.5, 3.0, 3.0, 1.8); (488170.6,
3616750.5, 3.0, 3.0, 1.8);
     (488220.6, 3616750.5, 3.0, 3.0, 1.8); (488270.6,
3616750.5, 3.0, 3.0, 1.8);
     (488320.6, 3616750.5, 4.0, 4.0, 1.8); (488370.6,
3616750.5, 5.0, 5.0, 1.8);
     (488420.6, 3616750.5, 5.0, 5.0, 1.8); (488470.6,

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3616750.5,       5.0,       5.0,       1.8);
     ( 488520.6, 3616750.5,       5.2,       5.2,       1.8);         ( 488570.6,
3616750.5,       5.2,       5.2,       1.8);
     ( 488620.6, 3616750.5,       5.0,       5.0,       1.8);         ( 487120.6,
3616800.5,       1.0,       1.0,       1.8);
     ( 487170.6, 3616800.5,       2.0,       2.0,       1.8);         ( 487220.6,
3616800.5,       3.0,       3.0,       1.8);
     ( 487270.6, 3616800.5,       3.0,       3.0,       1.8);         ( 487420.6,
3616800.5,       3.5,       3.5,       1.8);
     ( 487470.6, 3616800.5,       4.0,       4.0,       1.8);         ( 487520.6,
3616800.5,       4.0,       4.0,       1.8);
     ( 487570.6, 3616800.5,       4.0,       4.0,       1.8);         ( 487620.6,
3616800.5,       3.1,       3.1,       1.8);
     ( 487670.6, 3616800.5,       3.0,       3.0,       1.8);         ( 487720.6,
3616800.5,       3.0,       3.0,       1.8);
     ( 487770.6, 3616800.5,       3.0,       3.0,       1.8);         ( 487820.6,
3616800.5,       3.0,       3.0,       1.8);
     ( 487870.6, 3616800.5,       3.0,       3.0,       1.8);         ( 487920.6,
3616800.5,       3.0,       3.0,       1.8);
     ( 487970.6, 3616800.5,       3.2,       3.2,       1.8);         ( 488020.6,
3616800.5,       3.5,       3.5,       1.8);
     ( 488070.6, 3616800.5,       4.0,       4.0,       1.8);         ( 488120.6,
3616800.5,       3.5,       3.5,       1.8);
     ( 488170.6, 3616800.5,       3.5,       3.5,       1.8);         ( 488220.6,
3616800.5,       3.5,       3.5,       1.8);
     ( 488270.6, 3616800.5,       3.2,       3.2,       1.8);         ( 488320.6,
3616800.5,       5.0,       5.0,       1.8);
     ( 488370.6, 3616800.5,       5.5,       5.5,       1.8);         ( 488420.6,
3616800.5,       5.5,       5.5,       1.8);
     ( 488470.6, 3616800.5,       5.5,       5.5,       1.8);         ( 488520.6,
3616800.5,       5.5,       5.5,       1.8);
     ( 488570.6, 3616800.5,       5.2,       5.2,       1.8);         ( 488620.6,
3616800.5,       5.5,       5.5,       1.8);
     ( 486470.6, 3616850.5,       0.0,       0.0,       1.8);         ( 486520.6,
3616850.5,       0.0,       0.0,       1.8);
     ( 487020.6, 3616850.5,       2.7,       2.7,       1.8);         ( 487070.6,
3616850.5,       3.0,       3.0,       1.8);
     ( 487120.6, 3616850.5,       3.0,       3.0,       1.8);         ( 487170.6,
3616850.5,       3.0,       3.0,       1.8);
     ( 487220.6, 3616850.5,       3.0,       3.0,       1.8);         ( 487270.6,
3616850.5,       3.0,       3.0,       1.8);
     ( 487320.6, 3616850.5,       3.0,       3.0,       1.8);         ( 487370.6,
3616850.5,       3.0,       3.0,       1.8);
     ( 487420.6, 3616850.5,       4.0,       4.0,       1.8);         ( 487470.6,
3616850.5,       4.0,       4.0,       1.8);
     ( 487520.6, 3616850.5,       4.0,       4.0,       1.8);         ( 487570.6,
3616850.5,       4.0,       4.0,       1.8);
     ( 487620.6, 3616850.5,       3.3,       3.3,       1.8);         ( 487670.6,
3616850.5,       3.0,       3.0,       1.8);
     ( 487720.6, 3616850.5,       3.0,       3.0,       1.8);         ( 487770.6,
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3616850.5, 3.0, 3.0, 1.8);
     (487820.6, 3616850.5, 3.0, 3.0, 1.8); (487870.6,
3616850.5, 3.0, 3.0, 1.8);
     (487920.6, 3616850.5, 3.8, 3.8, 1.8); (487970.6,
3616850.5, 4.0, 4.0, 1.8);
     (488020.6, 3616850.5, 4.0, 4.0, 1.8); (488070.6,
3616850.5, 4.0, 4.0, 1.8);
     (488120.6, 3616850.5, 4.0, 4.0, 1.8); (488170.6,
3616850.5, 4.2, 4.2, 1.8);
     (488220.6, 3616850.5, 5.1, 5.1, 1.8); (488270.6,
3616850.5, 3.5, 3.5, 1.8);
     (488320.6, 3616850.5, 5.8, 5.8, 1.8); (488370.6,
3616850.5, 6.0, 6.0, 1.8);
     (488420.6, 3616850.5, 6.0, 6.0, 1.8); (488470.6,
3616850.5, 6.0, 6.0, 1.8);
     (488520.6, 3616850.5, 5.8, 5.8, 1.8); (488570.6,
3616850.5, 5.9, 5.9, 1.8);
     (488620.6, 3616850.5, 5.0, 5.0, 1.8); (486370.6,
3616900.5, 0.0, 0.0, 1.8);
     (486420.6, 3616900.5, 0.0, 0.0, 1.8); (486470.6,
3616900.5, 0.0, 0.0, 1.8);
     (486520.6, 3616900.5, 0.0, 0.0, 1.8); (487070.6,
3616900.5, 3.0, 3.0, 1.8);
     (487120.6, 3616900.5, 3.0, 3.0, 1.8); (487170.6,
3616900.5, 3.6, 3.6, 1.8);
     (487220.6, 3616900.5, 3.8, 3.8, 1.8); (487270.6,
3616900.5, 3.8, 3.8, 1.8);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (487320.6, 3616900.5, 3.0, 3.0, 1.8); (487370.6,
3616900.5, 3.8, 3.8, 1.8);
     (487420.6, 3616900.5, 4.0, 4.0, 1.8); (487470.6,
3616900.5, 4.0, 4.0, 1.8);
     (487520.6, 3616900.5, 4.0, 4.0, 1.8); (487570.6,
3616900.5, 4.0, 4.0, 1.8);
     (487620.6, 3616900.5, 3.3, 3.3, 1.8); (487670.6,
3616900.5, 3.0, 3.0, 1.8);
     (487720.6, 3616900.5, 3.0, 3.0, 1.8); (487770.6,
3616900.5, 3.0, 3.0, 1.8);
     (487820.6, 3616900.5, 3.3, 3.3, 1.8); (487870.6,

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3616900.5,       3.8,       3.8,       1.8);
     ( 487920.6, 3616900.5,       4.0,       4.0,       1.8);         ( 487970.6,
3616900.5,       4.0,       4.0,       1.8);
     ( 488020.6, 3616900.5,       4.0,       4.0,       1.8);         ( 488070.6,
3616900.5,       4.0,       4.0,       1.8);
     ( 488120.6, 3616900.5,       4.3,       4.3,       1.8);         ( 488170.6,
3616900.5,       5.0,       5.0,       1.8);
     ( 488220.6, 3616900.5,       6.0,       6.0,       1.8);         ( 488270.6,
3616900.5,       4.8,       4.8,       1.8);
     ( 488320.6, 3616900.5,       3.5,       3.5,       1.8);         ( 488370.6,
3616900.5,       6.0,       6.0,       1.8);
     ( 488420.6, 3616900.5,       6.0,       6.0,       1.8);         ( 488470.6,
3616900.5,       6.0,       6.0,       1.8);
     ( 488520.6, 3616900.5,       5.6,       5.6,       1.8);         ( 488570.6,
3616900.5,       5.1,       5.1,       1.8);
     ( 488620.6, 3616900.5,       4.2,       4.2,       1.8);         ( 486170.6,
3616950.5,       0.0,       0.0,       1.8);
     ( 486220.6, 3616950.5,       0.0,       0.0,       1.8);         ( 486370.6,
3616950.5,       0.0,       0.0,       1.8);
     ( 486420.6, 3616950.5,       0.0,       0.0,       1.8);         ( 486470.6,
3616950.5,       0.0,       0.0,       1.8);
     ( 486520.6, 3616950.5,       0.0,       0.0,       1.8);         ( 486570.6,
3616950.5,       0.7,       0.7,       1.8);
     ( 486720.6, 3616950.5,       3.0,       3.0,       1.8);         ( 487020.6,
3616950.5,       3.3,       3.3,       1.8);
     ( 487070.6, 3616950.5,       3.5,       3.5,       1.8);         ( 487120.6,
3616950.5,       3.5,       3.5,       1.8);
     ( 487170.6, 3616950.5,       3.8,       3.8,       1.8);         ( 487220.6,
3616950.5,       4.0,       4.0,       1.8);
     ( 487270.6, 3616950.5,       4.0,       4.0,       1.8);         ( 487320.6,
3616950.5,       4.0,       4.0,       1.8);
     ( 487370.6, 3616950.5,       4.2,       4.2,       1.8);         ( 487420.6,
3616950.5,       4.5,       4.5,       1.8);
     ( 487470.6, 3616950.5,       4.5,       4.5,       1.8);         ( 487520.6,
3616950.5,       4.0,       4.0,       1.8);
     ( 487570.6, 3616950.5,       3.9,       3.9,       1.8);         ( 487620.6,
3616950.5,       3.0,       3.0,       1.8);
     ( 487670.6, 3616950.5,       3.0,       3.0,       1.8);         ( 487720.6,
3616950.5,       3.5,       3.5,       1.8);
     ( 487770.6, 3616950.5,       4.0,       4.0,       1.8);         ( 487820.6,
3616950.5,       4.0,       4.0,       1.8);
     ( 487870.6, 3616950.5,       4.5,       4.5,       1.8);         ( 487920.6,
3616950.5,       4.5,       4.5,       1.8);
     ( 487970.6, 3616950.5,       4.7,       4.7,       1.8);         ( 488020.6,
3616950.5,       5.0,       5.0,       1.8);
     ( 488070.6, 3616950.5,       5.0,       5.0,       1.8);         ( 488120.6,
3616950.5,       5.0,       5.0,       1.8);
     ( 488170.6, 3616950.5,       5.0,       5.0,       1.8);         ( 488220.6,
3616950.5,       6.5,       6.5,       1.8);
     ( 488270.6, 3616950.5,       5.8,       5.8,       1.8);         ( 488320.6,
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3616950.5,   3.5,   3.5,   1.8);
     (488370.6, 3616950.5,   5.3,   5.3,   1.8);   (488420.6,
3616950.5,   6.0,   6.0,   1.8);
     (488470.6, 3616950.5,   6.0,   6.0,   1.8);   (488520.6,
3616950.5,   5.0,   5.0,   1.8);
     (488570.6, 3616950.5,   4.2,   4.2,   1.8);   (488620.6,
3616950.5,   4.0,   4.0,   1.8);
     (486170.6, 3617000.5,   0.0,   0.0,   1.8);   (486220.6,
3617000.5,   0.0,   0.0,   1.8);
     (486270.6, 3617000.5,   0.0,   0.0,   1.8);   (486320.6,
3617000.5,   0.0,   0.0,   1.8);
     (486370.6, 3617000.5,   0.0,   0.0,   1.8);   (486420.6,
3617000.5,   0.2,   0.2,   1.8);
     (486470.6, 3617000.5,   0.0,   0.0,   1.8);   (486520.6,
3617000.5,   0.0,   0.0,   1.8);
     (486570.6, 3617000.5,   2.3,   2.3,   1.8);   (486620.6,
3617000.5,   3.4,   3.4,   1.8);
     (486670.6, 3617000.5,   4.0,   4.0,   1.8);   (486720.6,
3617000.5,   4.0,   4.0,   1.8);
     (486770.6, 3617000.5,   4.0,   4.0,   1.8);   (486820.6,
3617000.5,   4.0,   4.0,   1.8);
     (486970.6, 3617000.5,   3.2,   3.2,   1.8);   (487020.6,
3617000.5,   4.0,   4.0,   1.8);
     (487070.6, 3617000.5,   4.0,   4.0,   1.8);   (487120.6,
3617000.5,   4.1,   4.1,   1.8);
     (487170.6, 3617000.5,   4.1,   4.1,   1.8);   (487220.6,
3617000.5,   4.5,   4.5,   1.8);
     (487270.6, 3617000.5,   5.0,   5.0,   1.8);   (487320.6,
3617000.5,   5.0,   5.0,   1.8);

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                   (METERS)

     (487370.6, 3617000.5,   5.0,   5.0,   1.8);   (487420.6,
3617000.5,   5.0,   5.0,   1.8);
     (487470.6, 3617000.5,   5.0,   5.0,   1.8);   (487520.6,
3617000.5,   4.0,   4.0,   1.8);
     (487570.6, 3617000.5,   3.0,   3.0,   1.8);   (487620.6,
3617000.5,   3.1,   3.1,   1.8);
     (487670.6, 3617000.5,   4.1,   4.1,   1.8);   (487720.6,
3617000.5,   4.1,   4.1,   1.8);
     (487770.6, 3617000.5,   4.8,   4.8,   1.8);   (487820.6,

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3617000.5,       5.0,       5.0,       1.8);
     ( 487870.6, 3617000.5,       5.0,       5.0,       1.8);         ( 487920.6,
3617000.5,       5.0,       5.0,       1.8);
     ( 487970.6, 3617000.5,       5.0,       5.0,       1.8);         ( 488020.6,
3617000.5,       5.0,       5.0,       1.8);
     ( 488070.6, 3617000.5,       5.0,       5.0,       1.8);         ( 488120.6,
3617000.5,       5.0,       5.0,       1.8);
     ( 488170.6, 3617000.5,       5.0,       5.0,       1.8);         ( 488220.6,
3617000.5,       6.1,       6.1,       1.8);
     ( 488270.6, 3617000.5,       7.1,       7.1,       1.8);         ( 488320.6,
3617000.5,       5.9,       5.9,       1.8);
     ( 488370.6, 3617000.5,       4.0,       4.0,       1.8);         ( 488420.6,
3617000.5,       5.8,       5.8,       1.8);
     ( 488470.6, 3617000.5,       5.1,       5.1,       1.8);         ( 488520.6,
3617000.5,       4.3,       4.3,       1.8);
     ( 488570.6, 3617000.5,       4.0,       4.0,       1.8);         ( 488620.6,
3617000.5,       4.0,       4.0,       1.8);
     ( 486170.6, 3617050.5,       0.0,       0.0,       1.8);         ( 486220.6,
3617050.5,       0.0,       0.0,       1.8);
     ( 486270.6, 3617050.5,       0.0,       0.0,       1.8);         ( 486320.6,
3617050.5,       0.0,       0.0,       1.8);
     ( 486370.6, 3617050.5,       0.0,       0.0,       1.8);         ( 486420.6,
3617050.5,       0.8,       0.8,       1.8);
     ( 486470.6, 3617050.5,       0.5,       0.5,       1.8);         ( 486520.6,
3617050.5,       0.0,       0.0,       1.8);
     ( 486570.6, 3617050.5,       0.3,       0.3,       1.8);         ( 486620.6,
3617050.5,       3.4,       3.4,       1.8);
     ( 486670.6, 3617050.5,       4.0,       4.0,       1.8);         ( 486720.6,
3617050.5,       4.0,       4.0,       1.8);
     ( 486770.6, 3617050.5,       4.0,       4.0,       1.8);         ( 486820.6,
3617050.5,       4.0,       4.0,       1.8);
     ( 486870.6, 3617050.5,       4.0,       4.0,       1.8);         ( 486920.6,
3617050.5,       4.0,       4.0,       1.8);
     ( 486970.6, 3617050.5,       4.0,       4.0,       1.8);         ( 487020.6,
3617050.5,       4.0,       4.0,       1.8);
     ( 487070.6, 3617050.5,       4.8,       4.8,       1.8);         ( 487120.6,
3617050.5,       5.0,       5.0,       1.8);
     ( 487170.6, 3617050.5,       5.0,       5.0,       1.8);         ( 487220.6,
3617050.5,       5.0,       5.0,       1.8);
     ( 487270.6, 3617050.5,       5.0,       5.0,       1.8);         ( 487320.6,
3617050.5,       5.0,       5.0,       1.8);
     ( 487370.6, 3617050.5,       5.3,       5.3,       1.8);         ( 487420.6,
3617050.5,       5.8,       5.8,       1.8);
     ( 487470.6, 3617050.5,       5.8,       5.8,       1.8);         ( 487520.6,
3617050.5,       5.2,       5.2,       1.8);
     ( 487570.6, 3617050.5,       4.6,       4.6,       1.8);         ( 487620.6,
3617050.5,       4.8,       4.8,       1.8);
     ( 487670.6, 3617050.5,       5.0,       5.0,       1.8);         ( 487720.6,
3617050.5,       5.8,       5.8,       1.8);
     ( 487770.6, 3617050.5,       5.8,       5.8,       1.8);         ( 487820.6,
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3617050.5,   5.8,   5.8,   1.8);
     (487870.6, 3617050.5,   5.8,   5.8,   1.8);   (487920.6,
3617050.5,   5.8,   5.8,   1.8);
     (487970.6, 3617050.5,   5.8,   5.8,   1.8);   (488020.6,
3617050.5,   5.8,   5.8,   1.8);
     (488070.6, 3617050.5,   5.8,   13.0,   1.8);   (488120.6,
3617050.5,   5.0,   13.0,   1.8);
     (488170.6, 3617050.5,   5.0,   14.0,   1.8);   (488220.6,
3617050.5,   7.8,   7.8,   1.8);
     (488270.6, 3617050.5,   8.8,   13.0,   1.8);   (488320.6,
3617050.5,   6.8,   6.8,   1.8);
     (488370.6, 3617050.5,   4.3,   4.3,   1.8);   (488420.6,
3617050.5,   4.1,   4.1,   1.8);
     (488470.6, 3617050.5,   6.0,   6.0,   1.8);   (488520.6,
3617050.5,   4.5,   4.5,   1.8);
     (488570.6, 3617050.5,   4.0,   12.0,   1.8);   (488620.6,
3617050.5,   4.0,   16.0,   1.8);
     (486220.6, 3617100.5,   0.0,   0.0,   1.8);   (486270.6,
3617100.5,   0.0,   0.0,   1.8);
     (486320.6, 3617100.5,   0.0,   0.0,   1.8);   (486370.6,
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     (486420.6, 3617100.5,   0.0,   0.0,   1.8);   (486470.6,
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     (486520.6, 3617100.5,   1.5,   1.5,   1.8);   (486570.6,
3617100.5,   3.2,   3.2,   1.8);
     (486620.6, 3617100.5,   4.0,   4.0,   1.8);   (486670.6,
3617100.5,   4.5,   4.5,   1.8);
     (486720.6, 3617100.5,   5.0,   5.0,   1.8);   (486770.6,
3617100.5,   5.0,   5.0,   1.8);
     (486820.6, 3617100.5,   5.0,   5.0,   1.8);   (486870.6,
3617100.5,   5.0,   5.0,   1.8);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     (486920.6, 3617100.5,   5.5,   5.5,   1.8);   (486970.6,
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     (487020.6, 3617100.5,   5.5,   5.5,   1.8);   (487070.6,
3617100.5,   5.5,   5.5,   1.8);
     (487120.6, 3617100.5,   5.5,   5.5,   1.8);   (487170.6,
3617100.5,   6.0,   6.0,   1.8);
     (487220.6, 3617100.5,   6.0,   6.0,   1.8);   (487270.6,

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3617100.5,       6.0,       6.0,       1.8);
     ( 487320.6, 3617100.5,       6.0,       6.0,       1.8);         ( 487370.6,
3617100.5,       6.0,       6.0,       1.8);
     ( 487420.6, 3617100.5,       6.0,       6.0,       1.8);         ( 487470.6,
3617100.5,       6.0,       6.0,       1.8);
     ( 487520.6, 3617100.5,       6.2,       6.2,       1.8);         ( 487570.6,
3617100.5,       6.5,       6.5,       1.8);
     ( 487620.6, 3617100.5,       6.5,       6.5,       1.8);         ( 487670.6,
3617100.5,       6.7,       6.7,       1.8);
     ( 487720.6, 3617100.5,       7.0,       7.0,       1.8);         ( 487770.6,
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     ( 487820.6, 3617100.5,       7.0,       7.0,       1.8);         ( 487870.6,
3617100.5,       7.0,       7.0,       1.8);
     ( 487920.6, 3617100.5,       7.3,      12.0,       1.8);         ( 487970.6,
3617100.5,       7.8,      13.0,       1.8);
     ( 488020.6, 3617100.5,       9.0,      11.0,       1.8);         ( 488070.6,
3617100.5,      10.9,      13.0,       1.8);
     ( 488120.6, 3617100.5,      11.1,      13.0,       1.8);         ( 488170.6,
3617100.5,      10.0,      10.0,       1.8);
     ( 488220.6, 3617100.5,      12.0,      14.0,       1.8);         ( 488270.6,
3617100.5,      12.1,      12.1,       1.8);
     ( 488320.6, 3617100.5,       8.4,       8.4,       1.8);         ( 488370.6,
3617100.5,       6.1,       6.1,       1.8);
     ( 488420.6, 3617100.5,       4.3,       4.3,       1.8);         ( 488470.6,
3617100.5,       5.0,       5.0,       1.8);
     ( 488520.6, 3617100.5,       4.4,      12.0,       1.8);         ( 488570.6,
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     ( 488620.6, 3617100.5,       8.5,      16.0,       1.8);         ( 486270.6,
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     ( 486320.6, 3617150.5,       0.0,       0.0,       1.8);         ( 486370.6,
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     ( 486620.6, 3617150.5,       5.0,       5.0,       1.8);         ( 486670.6,
3617150.5,       5.1,       5.1,       1.8);
     ( 486720.6, 3617150.5,       5.8,       5.8,       1.8);         ( 486770.6,
3617150.5,       6.0,       6.0,       1.8);
     ( 486820.6, 3617150.5,       6.0,       6.0,       1.8);         ( 486870.6,
3617150.5,       6.0,       6.0,       1.8);
     ( 486920.6, 3617150.5,       6.1,       6.1,       1.8);         ( 486970.6,
3617150.5,       6.1,       6.1,       1.8);
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3617150.5,       6.1,       6.1,       1.8);
     ( 487120.6, 3617150.5,       6.1,       6.1,       1.8);         ( 487170.6,
3617150.5,       6.8,       6.8,       1.8);
     ( 487220.6, 3617150.5,       6.3,       6.3,       1.8);         ( 487270.6,
3617150.5,       6.3,       6.3,       1.8);
     ( 487320.6, 3617150.5,       7.1,       7.1,       1.8);         ( 487370.6,
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3617150.5,       7.1,       7.1,       1.8);
     ( 487420.6, 3617150.5,       7.1,       7.1,       1.8);         ( 487470.6,
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     ( 487620.6, 3617150.5,       9.3,       9.3,       1.8);         ( 487670.6,
3617150.5,       9.3,       9.3,       1.8);
     ( 487720.6, 3617150.5,       9.3,       9.3,       1.8);         ( 487770.6,
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3617150.5,      11.2,      11.2,       1.8);
     ( 487920.6, 3617150.5,      11.9,      11.9,       1.8);         ( 487970.6,
3617150.5,      12.5,      12.5,       1.8);
     ( 488020.6, 3617150.5,      13.2,      13.2,       1.8);         ( 488070.6,
3617150.5,      13.9,      13.9,       1.8);
     ( 488120.6, 3617150.5,      13.8,      13.8,       1.8);         ( 488170.6,
3617150.5,      14.1,      14.1,       1.8);
     ( 488220.6, 3617150.5,      14.5,      14.5,       1.8);         ( 488270.6,
3617150.5,      13.5,      13.5,       1.8);
     ( 488320.6, 3617150.5,      10.1,      10.1,       1.8);         ( 488370.6,
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     ( 488420.6, 3617150.5,       6.1,      12.0,       1.8);         ( 488470.6,
3617150.5,       4.0,      18.0,       1.8);
     ( 488520.6, 3617150.5,       5.4,      18.0,       1.8);         ( 488570.6,
3617150.5,       8.9,      12.0,       1.8);
     ( 488620.6, 3617150.5,      11.3,      11.3,       1.8);         ( 485970.6,
3617200.5,       0.0,       0.0,       1.8);
     ( 486020.6, 3617200.5,       0.0,       0.0,       1.8);         ( 486220.6,
3617200.5,       0.0,       0.0,       1.8);
     ( 486270.6, 3617200.5,       0.0,       0.0,       1.8);         ( 486320.6,
3617200.5,       0.0,       0.0,       1.8);
     ( 486370.6, 3617200.5,       1.8,       1.8,       1.8);         ( 486420.6,
3617200.5,       0.5,       0.5,       1.8);
↟ *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                  PAGE  34
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                   (METERS)

     ( 486470.6, 3617200.5,       0.6,       0.6,       1.8);         ( 486520.6,
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3617200.5,       5.3,       5.3,       1.8);
     ( 486670.6, 3617200.5,       6.0,       6.0,       1.8);         ( 486720.6,
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3617200.5,       7.0,       7.0,       1.8);
     ( 486970.6, 3617200.5,       7.8,       7.8,       1.8);         ( 487020.6,
3617200.5,       7.1,       7.1,       1.8);
     ( 487070.6, 3617200.5,       7.2,       7.2,       1.8);         ( 487120.6,
3617200.5,       7.8,       7.8,       1.8);
     ( 487170.6, 3617200.5,       7.8,       7.8,       1.8);         ( 487220.6,
3617200.5,       8.8,       8.8,       1.8);
     ( 487270.6, 3617200.5,       8.9,       8.9,       1.8);         ( 487320.6,
3617200.5,       9.6,       9.6,       1.8);
     ( 487370.6, 3617200.5,       9.6,       9.6,       1.8);         ( 487420.6,
3617200.5,       9.6,       9.6,       1.8);
     ( 487470.6, 3617200.5,       9.4,       9.4,       1.8);         ( 487520.6,
3617200.5,      10.2,      10.2,       1.8);
     ( 487570.6, 3617200.5,      11.6,      11.6,       1.8);         ( 487620.6,
3617200.5,      11.8,      11.8,       1.8);
     ( 487670.6, 3617200.5,      11.8,      11.8,       1.8);         ( 487720.6,
3617200.5,      11.8,      11.8,       1.8);
     ( 487770.6, 3617200.5,      12.5,      12.5,       1.8);         ( 487820.6,
3617200.5,      12.8,      12.8,       1.8);
     ( 487870.6, 3617200.5,      12.8,      12.8,       1.8);         ( 487920.6,
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     ( 487970.6, 3617200.5,      13.9,      13.9,       1.8);         ( 488020.6,
3617200.5,      14.8,      14.8,       1.8);
     ( 488070.6, 3617200.5,      15.0,      15.0,       1.8);         ( 488120.6,
3617200.5,      14.9,      14.9,       1.8);
     ( 488170.6, 3617200.5,      15.7,      15.7,       1.8);         ( 488220.6,
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     ( 488270.6, 3617200.5,      14.5,      16.0,       1.8);         ( 488320.6,
3617200.5,      11.0,      11.0,       1.8);
     ( 488370.6, 3617200.5,      11.3,      11.3,       1.8);         ( 488420.6,
3617200.5,       8.3,      10.0,       1.8);
     ( 488470.6, 3617200.5,       4.0,      18.0,       1.8);         ( 488520.6,
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     ( 488570.6, 3617200.5,       8.6,      18.0,       1.8);         ( 488620.6,
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     ( 485920.6, 3617250.5,       0.0,       0.0,       1.8);         ( 485970.6,
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     ( 486020.6, 3617250.5,       0.0,       0.0,       1.8);         ( 486070.6,
3617250.5,       0.0,       0.0,       1.8);
     ( 486170.6, 3617250.5,       0.0,       0.0,       1.8);         ( 486220.6,
3617250.5,       0.0,       0.0,       1.8);
     ( 486270.6, 3617250.5,       0.0,       0.0,       1.8);         ( 486320.6,
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     ( 486470.6, 3617250.5,       3.5,       3.5,       1.8);         ( 486520.6,
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     (486870.6, 3617250.5,   8.0,   8.0,   1.8);   (486920.6,
3617250.5,   8.5,   8.5,   1.8);
     (486970.6, 3617250.5,   8.5,   8.5,   1.8);   (487020.6,
3617250.5,   8.5,   8.5,   1.8);
     (487070.6, 3617250.5,   8.7,   8.7,   1.8);   (487120.6,
3617250.5,   9.5,   9.5,   1.8);
     (487170.6, 3617250.5,   10.2,   10.2,   1.8);   (487220.6,
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     (487270.6, 3617250.5,   10.5,   10.5,   1.8);   (487320.6,
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     (487370.6, 3617250.5,   11.8,   11.8,   1.8);   (487420.6,
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     (487470.6, 3617250.5,   11.5,   11.5,   1.8);   (487520.6,
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     (488070.6, 3617250.5,   16.0,   16.0,   1.8);   (488120.6,
3617250.5,   16.2,   16.2,   1.8);
     (488170.6, 3617250.5,   16.5,   16.5,   1.8);   (488220.6,
3617250.5,   16.5,   16.5,   1.8);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     (488270.6, 3617250.5,   13.6,   13.6,   1.8);   (488320.6,
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     (488370.6, 3617250.5,   13.3,   13.3,   1.8);   (488420.6,

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3617250.5,       9.6,      12.0,       1.8);
     ( 488470.6, 3617250.5,       4.2,      18.0,       1.8);         ( 488520.6,
3617250.5,      11.5,      18.0,       1.8);
     ( 488570.6, 3617250.5,       6.9,      18.0,       1.8);         ( 488620.6,
3617250.5,      10.6,      13.0,       1.8);
     ( 485870.6, 3617300.5,       0.0,       0.0,       1.8);         ( 485920.6,
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     ( 485970.6, 3617300.5,       0.0,       0.0,       1.8);         ( 486020.6,
3617300.5,       0.0,       0.0,       1.8);
     ( 486070.6, 3617300.5,       0.0,       0.0,       1.8);         ( 486120.6,
3617300.5,       0.0,       0.0,       1.8);
     ( 486170.6, 3617300.5,       0.0,       0.0,       1.8);         ( 486220.6,
3617300.5,       0.4,       0.4,       1.8);
     ( 486270.6, 3617300.5,       2.9,       2.9,       1.8);         ( 486320.6,
3617300.5,       3.5,       3.5,       1.8);
     ( 486370.6, 3617300.5,       4.1,       4.1,       1.8);         ( 486420.6,
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     ( 486470.6, 3617300.5,       5.1,       5.1,       1.8);         ( 486520.6,
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     ( 486570.6, 3617300.5,       6.1,       6.1,       1.8);         ( 486620.6,
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3617300.5,       8.0,       8.0,       1.8);
     ( 486770.6, 3617300.5,       8.2,       8.2,       1.8);         ( 486820.6,
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3617300.5,       9.2,       9.2,       1.8);
     ( 486970.6, 3617300.5,      10.0,      10.0,       1.8);         ( 487020.6,
3617300.5,      10.1,      10.1,       1.8);
     ( 487070.6, 3617300.5,      10.2,      10.2,       1.8);         ( 487120.6,
3617300.5,      11.0,      11.0,       1.8);
     ( 487170.6, 3617300.5,      11.8,      11.8,       1.8);         ( 487220.6,
3617300.5,      12.1,      12.1,       1.8);
     ( 487270.6, 3617300.5,      12.2,      12.2,       1.8);         ( 487320.6,
3617300.5,      12.8,      12.8,       1.8);
     ( 487370.6, 3617300.5,      13.0,      13.0,       1.8);         ( 487420.6,
3617300.5,      13.0,      13.0,       1.8);
     ( 487470.6, 3617300.5,      12.8,      12.8,       1.8);         ( 487520.6,
3617300.5,      12.5,      12.5,       1.8);
     ( 487570.6, 3617300.5,      13.0,      13.0,       1.8);         ( 487620.6,
3617300.5,      13.0,      13.0,       1.8);
     ( 487670.6, 3617300.5,      14.0,      14.0,       1.8);         ( 487720.6,
3617300.5,      14.2,      14.2,       1.8);
     ( 487770.6, 3617300.5,      15.1,      15.1,       1.8);         ( 487820.6,
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     ( 487870.6, 3617300.5,      16.2,      16.2,       1.8);         ( 487920.6,
3617300.5,      17.2,      17.2,       1.8);
     ( 487970.6, 3617300.5,      17.2,      17.2,       1.8);         ( 488020.6,
3617300.5,      17.2,      17.2,       1.8);
     ( 488070.6, 3617300.5,      17.2,      17.2,       1.8);         ( 488120.6,
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3617300.5,   17.2,   17.2,   1.8);
     (488170.6, 3617300.5,   17.1,   17.1,   1.8);   (488220.6,
3617300.5,   16.9,   16.9,   1.8);
     (488270.6, 3617300.5,   14.8,   14.8,   1.8);   (488320.6,
3617300.5,   14.2,   14.2,   1.8);
     (488370.6, 3617300.5,   15.0,   15.0,   1.8);   (488420.6,
3617300.5,   10.4,   15.0,   1.8);
     (488470.6, 3617300.5,   4.4,   18.0,   1.8);   (488520.6,
3617300.5,   14.0,   18.0,   1.8);
     (488570.6, 3617300.5,   11.3,   18.0,   1.8);   (488620.6,
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     (485870.6, 3617350.5,   0.0,   0.0,   1.8);   (485920.6,
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     (485970.6, 3617350.5,   0.0,   0.0,   1.8);   (486020.6,
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     (486070.6, 3617350.5,   0.0,   0.0,   1.8);   (486120.6,
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     (486170.6, 3617350.5,   0.6,   0.6,   1.8);   (486220.6,
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     (486270.6, 3617350.5,   3.9,   3.9,   1.8);   (486320.6,
3617350.5,   4.3,   4.3,   1.8);
     (486370.6, 3617350.5,   5.0,   5.0,   1.8);   (486420.6,
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     (486470.6, 3617350.5,   5.9,   5.9,   1.8);   (486520.6,
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     (486570.6, 3617350.5,   7.0,   7.0,   1.8);   (486620.6,
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     (486670.6, 3617350.5,   8.0,   8.0,   1.8);   (486720.6,
3617350.5,   8.8,   8.8,   1.8);
     (486770.6, 3617350.5,   9.0,   9.0,   1.8);   (486820.6,
3617350.5,   9.8,   9.8,   1.8);
     (486870.6, 3617350.5,   10.0,   10.0,   1.8);   (486920.6,
3617350.5,   10.3,   10.3,   1.8);
     (486970.6, 3617350.5,   10.8,   10.8,   1.8);   (487020.6,
3617350.5,   11.0,   11.0,   1.8);
     (487070.6, 3617350.5,   11.8,   11.8,   1.8);   (487120.6,
3617350.5,   11.8,   11.8,   1.8);

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     (487170.6, 3617350.5,   12.0,   12.0,   1.8);   (487220.6,

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3617350.5,      12.9,      12.9,       1.8);
     ( 487270.6, 3617350.5,      13.0,      13.0,       1.8);         ( 487320.6,
3617350.5,      13.0,      13.0,       1.8);
     ( 487370.6, 3617350.5,      13.0,      13.0,       1.8);         ( 487420.6,
3617350.5,      13.0,      13.0,       1.8);
     ( 487470.6, 3617350.5,      13.0,      13.0,       1.8);         ( 487520.6,
3617350.5,      13.0,      13.0,       1.8);
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3617350.5,      13.0,      13.0,       1.8);
     ( 487670.6, 3617350.5,      14.0,      14.0,       1.8);         ( 487720.6,
3617350.5,      15.0,      15.0,       1.8);
     ( 487770.6, 3617350.5,      16.0,      16.0,       1.8);         ( 487820.6,
3617350.5,      16.8,      16.8,       1.8);
     ( 487870.6, 3617350.5,      17.8,      17.8,       1.8);         ( 487920.6,
3617350.5,      18.0,      18.0,       1.8);
     ( 487970.6, 3617350.5,      18.0,      18.0,       1.8);         ( 488020.6,
3617350.5,      18.0,      18.0,       1.8);
     ( 488070.6, 3617350.5,      18.0,      18.0,       1.8);         ( 488120.6,
3617350.5,      18.0,      18.0,       1.8);
     ( 488170.6, 3617350.5,      17.9,      17.9,       1.8);         ( 488220.6,
3617350.5,      16.8,      16.8,       1.8);
     ( 488270.6, 3617350.5,      15.9,      15.9,       1.8);         ( 488320.6,
3617350.5,      15.8,      15.8,       1.8);
     ( 488370.6, 3617350.5,      14.7,      14.7,       1.8);         ( 488420.6,
3617350.5,      11.6,      13.0,       1.8);
     ( 488470.6, 3617350.5,       4.3,      20.0,       1.8);         ( 488520.6,
3617350.5,       8.7,      18.0,       1.8);
     ( 488570.6, 3617350.5,       6.6,      18.0,       1.8);         ( 488620.6,
3617350.5,       5.0,      18.0,       1.8);
     ( 485870.6, 3617400.5,       0.0,       0.0,       1.8);         ( 485920.6,
3617400.5,       0.0,       0.0,       1.8);
     ( 485970.6, 3617400.5,       0.7,       0.7,       1.8);         ( 486020.6,
3617400.5,       0.3,       0.3,       1.8);
     ( 486070.6, 3617400.5,       0.0,       0.0,       1.8);         ( 486120.6,
3617400.5,       0.7,       0.7,       1.8);
     ( 486170.6, 3617400.5,       2.2,       2.2,       1.8);         ( 486220.6,
3617400.5,       4.0,       4.0,       1.8);
     ( 486270.6, 3617400.5,       4.5,       4.5,       1.8);         ( 486320.6,
3617400.5,       5.0,       5.0,       1.8);
     ( 486370.6, 3617400.5,       5.5,       5.5,       1.8);         ( 486420.6,
3617400.5,       5.8,       5.8,       1.8);
     ( 486470.6, 3617400.5,       6.2,       6.2,       1.8);         ( 486520.6,
3617400.5,       7.0,       7.0,       1.8);
     ( 486570.6, 3617400.5,       7.8,       7.8,       1.8);         ( 486620.6,
3617400.5,       8.2,       8.2,       1.8);
     ( 486670.6, 3617400.5,       9.0,       9.0,       1.8);         ( 486720.6,
3617400.5,       9.4,       9.4,       1.8);
     ( 486770.6, 3617400.5,      10.0,      10.0,       1.8);         ( 486820.6,
3617400.5,      10.5,      10.5,       1.8);
     ( 486870.6, 3617400.5,      10.9,      10.9,       1.8);         ( 486920.6,
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3617400.5,   11.2,   11.2,   1.8);
     (486970.6, 3617400.5,   12.0,   12.0,   1.8);   (487020.6,
3617400.5,   12.5,   12.5,   1.8);
     (487070.6, 3617400.5,   12.9,   12.9,   1.8);   (487120.6,
3617400.5,   13.5,   13.5,   1.8);
     (487170.6, 3617400.5,   13.5,   13.5,   1.8);   (487220.6,
3617400.5,   14.0,   14.0,   1.8);
     (487270.6, 3617400.5,   14.0,   14.0,   1.8);   (487320.6,
3617400.5,   14.0,   14.0,   1.8);
     (487370.6, 3617400.5,   13.0,   13.0,   1.8);   (487420.6,
3617400.5,   13.0,   13.0,   1.8);
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3617400.5,   13.0,   13.0,   1.8);
     (487570.6, 3617400.5,   13.0,   13.0,   1.8);   (487620.6,
3617400.5,   13.5,   13.5,   1.8);
     (487670.6, 3617400.5,   13.8,   13.8,   1.8);   (487720.6,
3617400.5,   17.0,   17.0,   1.8);
     (487770.6, 3617400.5,   17.5,   17.5,   1.8);   (487820.6,
3617400.5,   17.5,   17.5,   1.8);
     (487870.6, 3617400.5,   17.5,   17.5,   1.8);   (487920.6,
3617400.5,   18.0,   18.0,   1.8);
     (487970.6, 3617400.5,   18.0,   18.0,   1.8);   (488020.6,
3617400.5,   18.0,   18.0,   1.8);
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3617400.5,   18.0,   18.0,   1.8);
     (488170.6, 3617400.5,   18.0,   18.0,   1.8);   (488220.6,
3617400.5,   17.0,   17.0,   1.8);
     (488270.6, 3617400.5,   17.3,   17.3,   1.8);   (488320.6,
3617400.5,   17.5,   17.5,   1.8);
     (488370.6, 3617400.5,   16.8,   16.8,   1.8);   (488420.6,
3617400.5,   9.5,   20.0,   1.8);
     (488470.6, 3617400.5,   4.0,   21.0,   1.8);   (488520.6,
3617400.5,   4.5,   14.0,   1.8);
     (488570.6, 3617400.5,   4.7,   4.7,   1.8);   (488620.6,
3617400.5,   4.0,   4.0,   1.8);
     (485870.6, 3617450.5,   0.0,   0.0,   1.8);   (485920.6,
3617450.5,   0.0,   0.0,   1.8);
     (485970.6, 3617450.5,   0.0,   0.0,   1.8);   (486020.6,
3617450.5,   1.4,   1.4,   1.8);

                                    *** DISCRETE CARTESIAN RECEPTORS ***
                                  (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                              (METERS)

```
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3617450.5,       3.8,       3.8,       1.8);
     ( 486170.6, 3617450.5,       4.1,       4.1,       1.8);         ( 486220.6,
3617450.5,       5.0,       5.0,       1.8);
     ( 486270.6, 3617450.5,       5.1,       5.1,       1.8);         ( 486320.6,
3617450.5,       5.5,       5.5,       1.8);
     ( 486370.6, 3617450.5,       6.0,       6.0,       1.8);         ( 486420.6,
3617450.5,       6.1,       6.1,       1.8);
     ( 486470.6, 3617450.5,       7.1,       7.1,       1.8);         ( 486520.6,
3617450.5,       8.0,       8.0,       1.8);
     ( 486570.6, 3617450.5,       8.1,       8.1,       1.8);         ( 486620.6,
3617450.5,       9.1,       9.1,       1.8);
     ( 486670.6, 3617450.5,      10.0,      10.0,       1.8);         ( 486720.6,
3617450.5,      10.2,      10.2,       1.8);
     ( 486770.6, 3617450.5,      11.0,      11.0,       1.8);         ( 486820.6,
3617450.5,      11.2,      11.2,       1.8);
     ( 486870.6, 3617450.5,      11.8,      11.8,       1.8);         ( 486920.6,
3617450.5,      12.0,      12.0,       1.8);
     ( 486970.6, 3617450.5,      13.2,      13.2,       1.8);         ( 487020.6,
3617450.5,      13.8,      13.8,       1.8);
     ( 487070.6, 3617450.5,      14.2,      14.2,       1.8);         ( 487120.6,
3617450.5,      15.0,      15.0,       1.8);
     ( 487170.6, 3617450.5,      15.1,      15.1,       1.8);         ( 487220.6,
3617450.5,      15.0,      15.0,       1.8);
     ( 487270.6, 3617450.5,      14.0,      14.0,       1.8);         ( 487320.6,
3617450.5,      13.9,      13.9,       1.8);
     ( 487370.6, 3617450.5,      13.0,      13.0,       1.8);         ( 487420.6,
3617450.5,      13.0,      13.0,       1.8);
     ( 487470.6, 3617450.5,      13.0,      13.0,       1.8);         ( 487520.6,
3617450.5,      13.1,      13.1,       1.8);
     ( 487570.6, 3617450.5,      13.7,      20.0,       1.8);         ( 487620.6,
3617450.5,      17.4,      17.4,       1.8);
     ( 487670.6, 3617450.5,      18.2,      18.2,       1.8);         ( 487720.6,
3617450.5,      18.2,      18.2,       1.8);
     ( 487770.6, 3617450.5,      18.2,      18.2,       1.8);         ( 487820.6,
3617450.5,      18.5,      18.5,       1.8);
     ( 487870.6, 3617450.5,      19.0,      19.0,       1.8);         ( 487920.6,
3617450.5,      19.0,      19.0,       1.8);
     ( 487970.6, 3617450.5,      18.7,      18.7,       1.8);         ( 488020.6,
3617450.5,      19.1,      19.1,       1.8);
     ( 488070.6, 3617450.5,      19.1,      19.1,       1.8);         ( 488120.6,
3617450.5,      18.6,      18.6,       1.8);
     ( 488170.6, 3617450.5,      19.1,      19.1,       1.8);         ( 488220.6,
3617450.5,      18.2,      18.2,       1.8);
     ( 488270.6, 3617450.5,      18.2,      18.2,       1.8);         ( 488320.6,
3617450.5,      19.3,      19.3,       1.8);
     ( 488370.6, 3617450.5,      16.9,      20.0,       1.8);         ( 488420.6,
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     ( 488470.6, 3617450.5,       4.0,      21.0,       1.8);         ( 488520.6,
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3617450.5,       4.0,       4.0,       1.8);
     ( 488570.6, 3617450.5,       4.0,       4.0,       1.8);         ( 488620.6,
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     ( 485870.6, 3617500.5,       0.5,       0.5,       1.8);         ( 485920.6,
3617500.5,       0.0,       0.0,       1.8);
     ( 485970.6, 3617500.5,       0.0,       0.0,       1.8);         ( 486020.6,
3617500.5,       3.2,       3.2,       1.8);
     ( 486070.6, 3617500.5,       4.0,       4.0,       1.8);         ( 486120.6,
3617500.5,       4.0,       4.0,       1.8);
     ( 486170.6, 3617500.5,       4.9,       4.9,       1.8);         ( 486220.6,
3617500.5,       5.0,       5.0,       1.8);
     ( 486270.6, 3617500.5,       5.7,       5.7,       1.8);         ( 486320.6,
3617500.5,       6.0,       6.0,       1.8);
     ( 486370.6, 3617500.5,       6.8,       6.8,       1.8);         ( 486420.6,
3617500.5,       7.0,       7.0,       1.8);
     ( 486470.6, 3617500.5,       7.9,       7.9,       1.8);         ( 486520.6,
3617500.5,       8.8,       8.8,       1.8);
     ( 486570.6, 3617500.5,       9.0,       9.0,       1.8);         ( 486620.6,
3617500.5,       9.9,       9.9,       1.8);
     ( 486670.6, 3617500.5,      10.8,      10.8,       1.8);         ( 486720.6,
3617500.5,      11.0,      11.0,       1.8);
     ( 486770.6, 3617500.5,      11.8,      11.8,       1.8);         ( 486820.6,
3617500.5,      12.0,      12.0,       1.8);
     ( 486870.6, 3617500.5,      12.8,      12.8,       1.8);         ( 486920.6,
3617500.5,      12.8,      12.8,       1.8);
     ( 486970.6, 3617500.5,      14.0,      14.0,       1.8);         ( 487020.6,
3617500.5,      14.8,      14.8,       1.8);
     ( 487070.6, 3617500.5,      15.8,      15.8,       1.8);         ( 487120.6,
3617500.5,      15.8,      15.8,       1.8);
     ( 487170.6, 3617500.5,      16.0,      16.0,       1.8);         ( 487220.6,
3617500.5,      15.5,      15.5,       1.8);
     ( 487270.6, 3617500.5,      14.0,      14.0,       1.8);         ( 487320.6,
3617500.5,      13.1,      13.1,       1.8);
     ( 487370.6, 3617500.5,      13.0,      13.0,       1.8);         ( 487420.6,
3617500.5,      13.8,      13.8,       1.8);
     ( 487470.6, 3617500.5,      13.6,      18.0,       1.8);         ( 487520.6,
3617500.5,      15.9,      15.9,       1.8);
     ( 487570.6, 3617500.5,      18.7,      18.7,       1.8);         ( 487620.6,
3617500.5,      19.2,      19.2,       1.8);
     ( 487670.6, 3617500.5,      19.0,      19.0,       1.8);         ( 487720.6,
3617500.5,      19.8,      19.8,       1.8);
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***       11:59:01

                                  PAGE  38
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                                          *** DISCRETE CARTESIAN RECEPTORS ***
```

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(487770.6, 3617500.5, 19.8, 19.8, 1.8); (487820.6, 3617500.5, 19.8, 19.8, 1.8);
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(487970.6, 3617500.5, 20.1, 20.1, 1.8); (488020.6, 3617500.5, 20.8, 20.8, 1.8);
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(488170.6, 3617500.5, 20.8, 20.8, 1.8); (488220.6, 3617500.5, 19.8, 19.8, 1.8);
(488270.6, 3617500.5, 19.6, 19.6, 1.8); (488320.6, 3617500.5, 20.1, 20.1, 1.8);
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(488470.6, 3617500.5, 4.0, 21.0, 1.8); (488520.6, 3617500.5, 4.0, 4.0, 1.8);
(488570.6, 3617500.5, 4.0, 4.0, 1.8); (488620.6, 3617500.5, 5.0, 5.0, 1.8);
(485870.6, 3617550.5, 1.8, 1.8, 1.8); (485920.6, 3617550.5, 2.5, 2.5, 1.8);
(485970.6, 3617550.5, 3.3, 3.3, 1.8); (486020.6, 3617550.5, 4.0, 4.0, 1.8);
(486070.6, 3617550.5, 4.0, 4.0, 1.8); (486120.6, 3617550.5, 4.8, 4.8, 1.8);
(486170.6, 3617550.5, 5.0, 5.0, 1.8); (486220.6, 3617550.5, 5.5, 5.5, 1.8);
(486270.6, 3617550.5, 6.0, 6.0, 1.8); (486320.6, 3617550.5, 6.7, 6.7, 1.8);
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(486470.6, 3617550.5, 8.7, 8.7, 1.8); (486520.6, 3617550.5, 9.0, 9.0, 1.8);
(486570.6, 3617550.5, 9.9, 9.9, 1.8); (486620.6, 3617550.5, 10.7, 10.7, 1.8);
(486670.6, 3617550.5, 11.5, 11.5, 1.8); (486720.6, 3617550.5, 12.4, 12.4, 1.8);
(486770.6, 3617550.5, 12.7, 12.7, 1.8); (486820.6, 3617550.5, 13.5, 13.5, 1.8);
(486870.6, 3617550.5, 14.2, 14.2, 1.8); (486920.6, 3617550.5, 14.5, 14.5, 1.8);
(486970.6, 3617550.5, 15.5, 15.5, 1.8); (487020.6, 3617550.5, 16.4, 16.4, 1.8);
(487070.6, 3617550.5, 17.5, 17.5, 1.8); (487120.6, 3617550.5, 17.5, 17.5, 1.8);
(487170.6, 3617550.5, 17.5, 17.5, 1.8); (487220.6, 3617550.5, 17.1, 17.1, 1.8);
(487270.6, 3617550.5, 13.5, 17.0, 1.8); (487320.6,

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3617550.5,      22.8,      22.8,       1.8);
     ( 488170.6, 3617550.5,      22.5,      22.5,       1.8);         ( 488220.6,
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     ( 488270.6, 3617550.5,      20.1,      20.1,       1.8);         ( 488320.6,
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 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***       11:59:01

                                  PAGE  39
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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(488370.6, 3617600.5, 10.2, 20.0, 1.8); (488420.6, 3617600.5, 6.5, 20.0, 1.8);
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     ( 487270.6, 3617650.5,      16.4,      17.0,       1.8);         ( 487320.6,
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3617650.5,      21.2,      21.2,       1.8);
     ( 488270.6, 3617650.5,      20.1,      20.1,       1.8);         ( 488320.6,
3617650.5,      19.4,      20.0,       1.8);
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***       11:59:01
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

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(485970.6, 3617700.5, 4.8, 4.8, 1.8); (486020.6, 3617700.5, 5.0, 5.0, 1.8);
(486070.6, 3617700.5, 5.5, 5.5, 1.8); (486120.6, 3617700.5, 5.8, 5.8, 1.8);
(486170.6, 3617700.5, 6.0, 6.0, 1.8); (486220.6, 3617700.5, 6.5, 6.5, 1.8);
(486270.6, 3617700.5, 7.3, 7.3, 1.8); (486320.6, 3617700.5, 8.2, 8.2, 1.8);
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(486670.6, 3617700.5, 14.0, 14.0, 1.8); (486720.6, 3617700.5, 15.2, 15.2, 1.8);
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(487270.6, 3617700.5, 19.5, 19.5, 1.8); (487320.6, 3617700.5, 20.2, 20.2, 1.8);
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     ( 488070.6, 3617700.5,      22.9,      22.9,       1.8);         ( 488120.6,
3617700.5,      20.8,      20.8,       1.8);
     ( 488170.6, 3617700.5,      20.0,      20.0,       1.8);         ( 488220.6,
3617700.5,      18.0,      18.0,       1.8);
     ( 488270.6, 3617700.5,      17.3,      17.3,       1.8);         ( 488320.6,
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     ( 488370.6, 3617700.5,      12.9,      20.0,       1.8);         ( 488420.6,
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     ( 488470.6, 3617700.5,       4.0,      20.0,       1.8);         ( 488520.6,
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     ( 488570.6, 3617700.5,       4.0,       4.0,       1.8);         ( 488620.6,
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3617750.5,      19.5,      19.5,       1.8);
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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     ( 487020.6, 3617800.5,      18.6,      18.6,       1.8);         ( 487070.6,
3617800.5,      18.6,      23.0,       1.8);
     ( 487120.6, 3617800.5,      19.9,      24.0,       1.8);         ( 487170.6,
3617800.5,      21.4,      21.4,       1.8);
     ( 487220.6, 3617800.5,      21.7,      21.7,       1.8);         ( 487270.6,
3617800.5,      21.9,      21.9,       1.8);
     ( 487320.6, 3617800.5,      22.8,      22.8,       1.8);         ( 487370.6,
3617800.5,      23.8,      23.8,       1.8);
     ( 487420.6, 3617800.5,      23.8,      23.8,       1.8);         ( 487470.6,
3617800.5,      24.7,      24.7,       1.8);
     ( 487520.6, 3617800.5,      25.0,      25.0,       1.8);         ( 487570.6,
3617800.5,      24.9,      24.9,       1.8);
     ( 487620.6, 3617800.5,      24.0,      24.0,       1.8);         ( 487670.6,
3617800.5,      23.9,      23.9,       1.8);
     ( 487720.6, 3617800.5,      24.0,      24.0,       1.8);         ( 487770.6,
3617800.5,      24.8,      24.8,       1.8);
     ( 487820.6, 3617800.5,      24.8,      24.8,       1.8);         ( 487870.6,
3617800.5,      24.0,      24.0,       1.8);
     ( 487920.6, 3617800.5,      22.5,      22.5,       1.8);         ( 487970.6,
3617800.5,      21.5,      21.5,       1.8);
     ( 488020.6, 3617800.5,      18.9,      18.9,       1.8);         ( 488070.6,
3617800.5,      15.8,      24.0,       1.8);
     ( 488120.6, 3617800.5,      13.2,      16.0,       1.8);         ( 488170.6,
3617800.5,      12.1,      18.0,       1.8);
     ( 488220.6, 3617800.5,      11.4,      11.4,       1.8);         ( 488270.6,
3617800.5,      11.1,      11.1,       1.8);
     ( 488320.6, 3617800.5,       6.7,      16.0,       1.8);         ( 488370.6,
3617800.5,       6.0,      16.0,       1.8);
     ( 488420.6, 3617800.5,       5.0,       5.0,       1.8);         ( 488470.6,
3617800.5,       4.0,       4.0,       1.8);
     ( 488520.6, 3617800.5,       4.0,       4.0,       1.8);         ( 488570.6,
3617800.5,       4.0,       4.0,       1.8);
     ( 488620.6, 3617800.5,       4.1,       4.1,       1.8);         ( 485870.6,
3617850.5,       5.0,       5.0,       1.8);
     ( 485920.6, 3617850.5,       5.5,       5.5,       1.8);         ( 485970.6,
3617850.5,       6.0,       6.0,       1.8);
     ( 486020.6, 3617850.5,       6.2,       6.2,       1.8);         ( 486070.6,
3617850.5,       7.0,       7.0,       1.8);
     ( 486120.6, 3617850.5,       7.3,       7.3,       1.8);         ( 486170.6,
3617850.5,       8.0,       8.0,       1.8);
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(486220.6, 3617850.5, 8.5, 8.5, 1.8); (486420.6, 3617850.5, 11.4, 11.4, 1.8);
(486470.6, 3617850.5, 12.2, 12.2, 1.8); (486520.6, 3617850.5, 13.0, 13.0, 1.8);
(486570.6, 3617850.5, 14.2, 14.2, 1.8); (486620.6, 3617850.5, 15.9, 15.9, 1.8);
(486670.6, 3617850.5, 17.0, 17.0, 1.8); (486720.6, 3617850.5, 17.9, 17.9, 1.8);
(486770.6, 3617850.5, 18.5, 18.5, 1.8); (486820.6, 3617850.5, 18.5, 18.5, 1.8);
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(486970.6, 3617850.5, 18.5, 18.5, 1.8); (487020.6, 3617850.5, 19.3, 24.0, 1.8);
(487070.6, 3617850.5, 22.7, 22.7, 1.8); (487120.6, 3617850.5, 24.5, 24.5, 1.8);
(487170.6, 3617850.5, 23.6, 23.6, 1.8); (487220.6, 3617850.5, 23.5, 23.5, 1.8);
(487270.6, 3617850.5, 23.5, 23.5, 1.8); (487320.6, 3617850.5, 23.9, 23.9, 1.8);
(487370.6, 3617850.5, 24.7, 24.7, 1.8); (487420.6, 3617850.5, 25.0, 25.0, 1.8);
(487470.6, 3617850.5, 24.9, 24.9, 1.8); (487520.6, 3617850.5, 25.0, 25.0, 1.8);
(487570.6, 3617850.5, 25.0, 25.0, 1.8); (487620.6, 3617850.5, 24.5, 24.5, 1.8);
(487670.6, 3617850.5, 24.5, 24.5, 1.8); (487720.6, 3617850.5, 25.0, 25.0, 1.8);
(487770.6, 3617850.5, 25.0, 25.0, 1.8); (487820.6, 3617850.5, 25.0, 25.0, 1.8);
(487870.6, 3617850.5, 23.0, 23.0, 1.8); (487920.6, 3617850.5, 21.8, 21.8, 1.8);
(487970.6, 3617850.5, 20.1, 20.1, 1.8); (488020.6, 3617850.5, 18.4, 18.4, 1.8);
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(488170.6, 3617850.5, 11.0, 11.0, 1.8); (488220.6, 3617850.5, 11.0, 11.0, 1.8);
(488270.6, 3617850.5, 11.0, 11.0, 1.8); (488320.6,

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3617850.5,      10.3,      12.0,       1.8);
     ( 488370.6, 3617850.5,       6.0,      13.0,       1.8);         ( 488420.6,
3617850.5,       5.0,       5.0,       1.8);
     ( 488470.6, 3617850.5,       4.0,       4.0,       1.8);         ( 488520.6,
3617850.5,       4.0,       4.0,       1.8);
     ( 488570.6, 3617850.5,       4.0,       4.0,       1.8);         ( 488620.6,
3617850.5,       4.1,       4.1,       1.8);
     ( 485870.6, 3617900.5,       5.5,       5.5,       1.8);         ( 485920.6,
3617900.5,       6.0,       6.0,       1.8);
     ( 485970.6, 3617900.5,       6.0,       6.0,       1.8);         ( 486020.6,
3617900.5,       7.0,       7.0,       1.8);
     ( 486070.6, 3617900.5,       7.2,       7.2,       1.8);         ( 486120.6,
3617900.5,       8.0,       8.0,       1.8);
     ( 486170.6, 3617900.5,       8.5,       8.5,       1.8);         ( 486470.6,
3617900.5,      13.1,      13.1,       1.8);
     ( 486520.6, 3617900.5,      14.1,      14.1,       1.8);         ( 486570.6,
3617900.5,      15.7,      15.7,       1.8);
     ( 486620.6, 3617900.5,      16.5,      16.5,       1.8);         ( 486670.6,
3617900.5,      18.1,      18.1,       1.8);
     ( 486720.6, 3617900.5,      19.0,      19.0,       1.8);         ( 486770.6,
3617900.5,      19.0,      19.0,       1.8);
     ( 486820.6, 3617900.5,      19.0,      19.0,       1.8);         ( 486870.6,
3617900.5,      18.4,      18.4,       1.8);
     ( 486920.6, 3617900.5,      19.0,      19.0,       1.8);         ( 486970.6,
3617900.5,      20.5,      20.5,       1.8);
     ( 487020.6, 3617900.5,      23.5,      23.5,       1.8);         ( 487070.6,
3617900.5,      24.4,      24.4,       1.8);
     ( 487120.6, 3617900.5,      25.0,      25.0,       1.8);         ( 487170.6,
3617900.5,      24.4,      24.4,       1.8);
     ( 487220.6, 3617900.5,      25.0,      25.0,       1.8);         ( 487270.6,
3617900.5,      24.2,      24.2,       1.8);
     ( 487320.6, 3617900.5,      24.8,      24.8,       1.8);         ( 487370.6,
3617900.5,      25.2,      25.2,       1.8);
     ( 487420.6, 3617900.5,      26.0,      26.0,       1.8);         ( 487470.6,
3617900.5,      26.0,      26.0,       1.8);
     ( 487520.6, 3617900.5,      26.0,      26.0,       1.8);         ( 487570.6,
3617900.5,      26.0,      26.0,       1.8);
     ( 487620.6, 3617900.5,      26.0,      26.0,       1.8);         ( 487670.6,
3617900.5,      26.1,      26.1,       1.8);
     ( 487720.6, 3617900.5,      26.1,      26.1,       1.8);         ( 487770.6,
3617900.5,      26.0,      26.0,       1.8);
     ( 487820.6, 3617900.5,      25.0,      25.0,       1.8);         ( 487870.6,
3617900.5,      22.9,      22.9,       1.8);
     ( 487920.6, 3617900.5,      20.2,      20.2,       1.8);         ( 487970.6,
3617900.5,      17.9,      17.9,       1.8);
     ( 488020.6, 3617900.5,      16.8,      16.8,       1.8);         ( 488070.6,
3617900.5,      13.6,      13.6,       1.8);
     ( 488120.6, 3617900.5,      12.0,      12.0,       1.8);         ( 488170.6,
3617900.5,      12.0,      12.0,       1.8);
     ( 488220.6, 3617900.5,      12.3,      18.0,       1.8);         ( 488270.6,
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```
     ( 488320.6, 3617900.5,      12.8,      12.8,       1.8);         ( 488370.6,
3617900.5,       6.3,      13.0,       1.8);
     ( 488420.6, 3617900.5,       5.0,       5.0,       1.8);         ( 488470.6,
3617900.5,       4.1,       4.1,       1.8);
     ( 488520.6, 3617900.5,       4.0,       4.0,       1.8);         ( 488570.6,
3617900.5,       4.0,       4.0,       1.8);
     ( 488620.6, 3617900.5,       4.1,       4.1,       1.8);         ( 485870.6,
3617950.5,       6.0,       6.0,       1.8);
     ( 485920.6, 3617950.5,       6.0,       6.0,       1.8);         ( 485970.6,
3617950.5,       6.6,       6.6,       1.8);
     ( 486020.6, 3617950.5,       7.0,       7.0,       1.8);         ( 486070.6,
3617950.5,       8.0,       8.0,       1.8);
     ( 487077.5, 3618005.0,      25.9,      25.9,       1.8);         ( 487127.5,
3618005.0,      26.6,      26.6,       1.8);
     ( 487177.5, 3618005.0,      26.6,      26.6,       1.8);         ( 487227.5,
3618005.0,      26.6,      26.6,       1.8);
     ( 487277.5, 3618005.0,      26.6,      26.6,       1.8);         ( 487327.5,
3618005.0,      27.0,      27.0,       1.8);
     ( 486470.6, 3617950.5,      13.4,      13.4,       1.8);         ( 486520.6,
3617950.5,      14.9,      14.9,       1.8);
     ( 486570.6, 3617950.5,      16.5,      16.5,       1.8);         ( 486620.6,
3617950.5,      17.4,      17.4,       1.8);
     ( 486670.6, 3617950.5,      18.8,      18.8,       1.8);         ( 486720.6,
3617950.5,      19.6,      19.6,       1.8);
     ( 486770.6, 3617950.5,      19.8,      19.8,       1.8);         ( 486820.6,
3617950.5,      18.2,      18.2,       1.8);
     ( 486870.6, 3617950.5,      18.4,      24.0,       1.8);         ( 486920.6,
3617950.5,      21.2,      21.2,       1.8);
     ( 486970.6, 3617950.5,      24.6,      24.6,       1.8);         ( 487020.6,
3617950.5,      24.8,      24.8,       1.8);
     ( 487070.6, 3617950.5,      24.9,      24.9,       1.8);         ( 487120.6,
3617950.5,      25.8,      25.8,       1.8);
     ( 487170.6, 3617950.5,      25.8,      25.8,       1.8);         ( 487220.6,
3617950.5,      25.8,      25.8,       1.8);
     ( 487270.6, 3617950.5,      25.8,      25.8,       1.8);         ( 487320.6,
3617950.5,      25.8,      25.8,       1.8);
     ( 487370.6, 3617950.5,      26.0,      26.0,       1.8);         ( 487420.6,
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3617950.5,      26.8,      26.8,       1.8);
     ( 487470.6, 3617950.5,      26.8,      26.8,       1.8);         ( 487520.6,
3617950.5,      26.8,      26.8,       1.8);
     ( 487570.6, 3617950.5,      26.8,      26.8,       1.8);         ( 487620.6,
3617950.5,      26.8,      26.8,       1.8);
     ( 487670.6, 3617950.5,      26.9,      26.9,       1.8);         ( 487720.6,
3617950.5,      27.0,      27.0,       1.8);
     ( 487770.6, 3617950.5,      26.2,      26.2,       1.8);         ( 487820.6,
3617950.5,      25.5,      25.5,       1.8);
     ( 487870.6, 3617950.5,      22.9,      22.9,       1.8);         ( 487920.6,
3617950.5,      18.8,      18.8,       1.8);
     ( 487970.6, 3617950.5,      16.7,      16.7,       1.8);         ( 488020.6,
3617950.5,      15.1,      15.1,       1.8);
     ( 488070.6, 3617950.5,      13.3,      13.3,       1.8);         ( 488120.6,
3617950.5,      12.0,      21.0,       1.8);
     ( 488170.6, 3617950.5,      14.5,      21.0,       1.8);         ( 488220.6,
3617950.5,      17.3,      17.3,       1.8);
     ( 488270.6, 3617950.5,      15.3,      15.3,       1.8);         ( 488320.6,
3617950.5,      11.2,      15.0,       1.8);
     ( 488370.6, 3617950.5,       6.0,      18.0,       1.8);         ( 488420.6,
3617950.5,       5.0,       5.0,       1.8);
     ( 488470.6, 3617950.5,       5.0,       5.0,       1.8);         ( 488520.6,
3617950.5,       4.0,       4.0,       1.8);
     ( 488570.6, 3617950.5,       4.0,       4.0,       1.8);         ( 488620.6,
3617950.5,       4.1,       4.1,       1.8);
     ( 487840.1, 3615798.0,       0.0,       0.0,       1.8);         ( 487890.1,
3615798.0,       0.0,       0.0,       1.8);
     ( 487940.1, 3615798.0,       0.3,       0.3,       1.8);         ( 487990.1,
3615798.0,       1.0,       1.0,       1.8);
     ( 488240.1, 3615798.0,       0.1,       0.1,       1.8);         ( 488290.1,
3615798.0,       2.0,       2.0,       1.8);
     ( 488340.1, 3615798.0,       2.0,       2.0,       1.8);         ( 488390.1,
3615798.0,       2.0,       2.0,       1.8);
     ( 488440.1, 3615798.0,       3.0,       3.0,       1.8);         ( 488490.1,
3615798.0,       3.0,       3.0,       1.8);
     ( 488540.1, 3615798.0,       3.0,       3.0,       1.8);         ( 488590.1,
3615798.0,       3.0,       3.0,       1.8);
     ( 487940.1, 3615848.0,       0.0,       0.0,       1.8);         ( 487990.1,
3615848.0,       0.3,       0.3,       1.8);
     ( 488040.1, 3615848.0,       0.6,       0.6,       1.8);         ( 488190.1,
3615848.0,       0.0,       0.0,       1.8);
     ( 488240.1, 3615848.0,       1.7,       1.7,       1.8);         ( 488290.1,
3615848.0,       2.0,       2.0,       1.8);
     ( 488340.1, 3615848.0,       2.0,       2.0,       1.8);         ( 488390.1,
3615848.0,       2.4,       2.4,       1.8);
     ( 488440.1, 3615848.0,       3.0,       3.0,       1.8);         ( 488490.1,
3615848.0,       3.0,       3.0,       1.8);
     ( 488540.1, 3615848.0,       3.0,       3.0,       1.8);         ( 488590.1,
3615848.0,       3.0,       3.0,       1.8);
     ( 487740.1, 3615898.0,       0.4,       0.4,       1.8);         ( 487990.1,
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```
     ( 488140.1, 3615898.0,       1.0,       1.0,       1.8);         ( 488190.1,
3615898.0,       1.0,       1.0,       1.8);
     ( 488240.1, 3615898.0,       1.4,       1.4,       1.8);         ( 488290.1,
3615898.0,       2.0,       2.0,       1.8);
     ( 488340.1, 3615898.0,       2.0,       2.0,       1.8);         ( 488390.1,
3615898.0,       2.6,       2.6,       1.8);
     ( 488440.1, 3615898.0,       3.0,       3.0,       1.8);         ( 488490.1,
3615898.0,       3.0,       3.0,       1.8);
     ( 488540.1, 3615898.0,       3.0,       3.0,       1.8);         ( 488590.1,
3615898.0,       3.0,       3.0,       1.8);
     ( 487690.1, 3615948.0,       0.0,       0.0,       1.8);         ( 487740.1,
3615948.0,       1.3,       1.3,       1.8);
     ( 487790.1, 3615948.0,       1.3,       1.3,       1.8);         ( 488090.1,
3615948.0,       1.0,       1.0,       1.8);
     ( 488140.1, 3615948.0,       1.0,       1.0,       1.8);         ( 488190.1,
3615948.0,       1.1,       1.1,       1.8);
     ( 488240.1, 3615948.0,       3.1,       3.1,       1.8);         ( 488290.1,
3615948.0,       3.0,       3.0,       1.8);
     ( 488340.1, 3615948.0,       2.7,       2.7,       1.8);         ( 488390.1,
3615948.0,       3.0,       3.0,       1.8);
     ( 488440.1, 3615948.0,       3.0,       3.0,       1.8);         ( 488490.1,
3615948.0,       3.0,       3.0,       1.8);
     ( 488540.1, 3615948.0,       3.0,       3.0,       1.8);         ( 488590.1,
3615948.0,       3.0,       3.0,       1.8);
     ( 487690.1, 3615998.0,       0.0,       0.0,       1.8);         ( 487740.1,
3615998.0,       0.0,       0.0,       1.8);
     ( 487790.1, 3615998.0,       0.4,       0.4,       1.8);         ( 487840.1,
3615998.0,       1.7,       1.7,       1.8);
     ( 487890.1, 3615998.0,       0.4,       0.4,       1.8);         ( 488090.1,
3615998.0,       1.0,       1.0,       1.8);
     ( 488140.1, 3615998.0,       1.1,       1.1,       1.8);         ( 488190.1,
3615998.0,       3.9,       3.9,       1.8);
     ( 488240.1, 3615998.0,       5.0,       5.0,       1.8);         ( 488290.1,
3615998.0,       4.0,       4.0,       1.8);
     ( 488340.1, 3615998.0,       3.0,       3.0,       1.8);         ( 488390.1,
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3615998.0,       3.0,       3.0,       1.8);
     ( 488440.1, 3615998.0,       3.0,       3.0,       1.8);         ( 488490.1,
3615998.0,       3.0,       3.0,       1.8);
     ( 488540.1, 3615998.0,       3.0,       3.0,       1.8);         ( 488590.1,
3615998.0,       3.0,       3.0,       1.8);
     ( 487540.1, 3616048.0,       0.0,       0.0,       1.8);         ( 487790.1,
3616048.0,       0.0,       0.0,       1.8);
     ( 487840.1, 3616048.0,       0.0,       0.0,       1.8);         ( 487890.1,
3616048.0,       1.5,       1.5,       1.8);
     ( 487940.1, 3616048.0,       0.7,       0.7,       1.8);         ( 488090.1,
3616048.0,       1.2,       1.2,       1.8);
     ( 488140.1, 3616048.0,       2.8,       2.8,       1.8);         ( 488190.1,
3616048.0,       4.5,       4.5,       1.8);
     ( 488240.1, 3616048.0,       5.2,       5.2,       1.8);         ( 488290.1,
3616048.0,       4.0,       4.0,       1.8);
     ( 488340.1, 3616048.0,       3.0,       3.0,       1.8);         ( 488390.1,
3616048.0,       3.0,       3.0,       1.8);
     ( 488440.1, 3616048.0,       3.0,       3.0,       1.8);         ( 488490.1,
3616048.0,       3.0,       3.0,       1.8);
     ( 488540.1, 3616048.0,       3.0,       3.0,       1.8);         ( 488590.1,
3616048.0,       3.0,       3.0,       1.8);
     ( 487540.1, 3616098.0,       0.1,       0.1,       1.8);         ( 487590.1,
3616098.0,       2.6,       2.6,       1.8);
     ( 487640.1, 3616098.0,       1.4,       1.4,       1.8);         ( 487890.1,
3616098.0,       0.0,       0.0,       1.8);
     ( 487940.1, 3616098.0,       0.7,       0.7,       1.8);         ( 487990.1,
3616098.0,       1.9,       1.9,       1.8);
     ( 488040.1, 3616098.0,       0.0,       0.0,       1.8);         ( 488090.1,
3616098.0,       2.4,       2.4,       1.8);
     ( 488140.1, 3616098.0,       4.0,       4.0,       1.8);         ( 488190.1,
3616098.0,       4.7,       4.7,       1.8);
     ( 488240.1, 3616098.0,       4.6,       4.6,       1.8);         ( 488290.1,
3616098.0,       4.0,       4.0,       1.8);
     ( 488340.1, 3616098.0,       3.0,       3.0,       1.8);         ( 488390.1,
3616098.0,       3.0,       3.0,       1.8);
     ( 488440.1, 3616098.0,       3.0,       3.0,       1.8);         ( 488490.1,
3616098.0,       3.0,       3.0,       1.8);
     ( 488540.1, 3616098.0,       3.4,       3.4,       1.8);         ( 488590.1,
3616098.0,       4.0,       4.0,       1.8);
     ( 487540.1, 3616148.0,       0.0,       0.0,       1.8);         ( 487590.1,
3616148.0,       0.4,       0.4,       1.8);
     ( 487640.1, 3616148.0,       2.2,       2.2,       1.8);         ( 487690.1,
3616148.0,       1.4,       1.4,       1.8);
     ( 487940.1, 3616148.0,       0.0,       0.0,       1.8);         ( 487990.1,
3616148.0,       0.6,       0.6,       1.8);
     ( 488040.1, 3616148.0,       2.1,       2.1,       1.8);         ( 488090.1,
3616148.0,       3.0,       3.0,       1.8);
     ( 488140.1, 3616148.0,       4.0,       4.0,       1.8);         ( 488190.1,
3616148.0,       4.7,       4.7,       1.8);
     ( 488240.1, 3616148.0,       4.6,       4.6,       1.8);         ( 488290.1,
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

     (488540.1, 3616148.0,   4.0,   4.0,   1.8);   (488590.1,
3616148.0,   4.0,   4.0,   1.8);
     (487590.1, 3616198.0,   0.0,   0.0,   1.8);   (487640.1,
3616198.0,   0.0,   0.0,   1.8);
     (487690.1, 3616198.0,   1.2,   1.2,   1.8);   (487740.1,
3616198.0,   2.3,   2.3,   1.8);
     (487990.1, 3616198.0,   0.9,   0.9,   1.8);   (488040.1,
3616198.0,   2.8,   2.8,   1.8);
     (488090.1, 3616198.0,   3.0,   3.0,   1.8);   (488140.1,
3616198.0,   4.0,   4.0,   1.8);
     (488190.1, 3616198.0,   4.7,   4.7,   1.8);   (488240.1,
3616198.0,   4.6,   4.6,   1.8);
     (488290.1, 3616198.0,   4.0,   4.0,   1.8);   (488340.1,
3616198.0,   3.0,   3.0,   1.8);
     (488390.1, 3616198.0,   3.0,   3.0,   1.8);   (488440.1,
3616198.0,   3.4,   3.4,   1.8);
     (488490.1, 3616198.0,   4.0,   4.0,   1.8);   (488540.1,
3616198.0,   4.0,   4.0,   1.8);
     (488590.1, 3616198.0,   4.0,   4.0,   1.8);   (487690.1,
3616248.0,   0.0,   0.0,   1.8);
     (487740.1, 3616248.0,   1.4,   1.4,   1.8);   (487790.1,
3616248.0,   2.7,   2.7,   1.8);
     (487840.1, 3616248.0,   0.1,   0.1,   1.8);   (487940.1,
3616248.0,   0.9,   0.9,   1.8);
     (487990.1, 3616248.0,   3.0,   3.0,   1.8);   (488040.1,
3616248.0,   3.0,   3.0,   1.8);
     (488090.1, 3616248.0,   3.0,   3.0,   1.8);   (488140.1,
3616248.0,   4.0,   4.0,   1.8);
     (488190.1, 3616248.0,   4.7,   4.7,   1.8);   (488240.1,
3616248.0,   4.6,   4.6,   1.8);
     (488290.1, 3616248.0,   4.0,   4.0,   1.8);   (488340.1,
3616248.0,   3.0,   3.0,   1.8);
     (488390.1, 3616248.0,   3.0,   3.0,   1.8);   (488440.1,

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3616248.0,       4.0,       4.0,       1.8);
     ( 488490.1, 3616248.0,       4.0,       4.0,       1.8);         ( 488540.1,
3616248.0,       4.0,       4.0,       1.8);
     ( 488590.1, 3616248.0,       4.0,       4.0,       1.8);         ( 487690.1,
3616298.0,       0.1,       0.1,       1.8);
     ( 487740.1, 3616298.0,       2.4,       2.4,       1.8);         ( 487790.1,
3616298.0,       3.0,       3.0,       1.8);
     ( 487840.1, 3616298.0,       2.7,       2.7,       1.8);         ( 487890.1,
3616298.0,       0.4,       0.4,       1.8);
     ( 487940.1, 3616298.0,       2.4,       2.4,       1.8);         ( 487990.1,
3616298.0,       3.0,       3.0,       1.8);
     ( 488040.1, 3616298.0,       3.0,       3.0,       1.8);         ( 488090.1,
3616298.0,       3.0,       3.0,       1.8);
     ( 488140.1, 3616298.0,       4.0,       4.0,       1.8);         ( 488190.1,
3616298.0,       4.7,       4.7,       1.8);
     ( 488240.1, 3616298.0,       4.6,       4.6,       1.8);         ( 488290.1,
3616298.0,       4.0,       4.0,       1.8);
     ( 488340.1, 3616298.0,       3.0,       3.0,       1.8);         ( 488390.1,
3616298.0,       3.8,       3.8,       1.8);
     ( 488440.1, 3616298.0,       4.0,       4.0,       1.8);         ( 488490.1,
3616298.0,       4.0,       4.0,       1.8);
     ( 488540.1, 3616298.0,       4.0,       4.0,       1.8);         ( 488590.1,
3616298.0,       4.0,       4.0,       1.8);
     ( 487690.1, 3616348.0,       2.4,       2.4,       1.8);         ( 487740.1,
3616348.0,       3.0,       3.0,       1.8);
     ( 487790.1, 3616348.0,       3.0,       3.0,       1.8);         ( 487840.1,
3616348.0,       3.0,       3.0,       1.8);
     ( 487890.1, 3616348.0,       3.0,       3.0,       1.8);         ( 487940.1,
3616348.0,       3.0,       3.0,       1.8);
     ( 487990.1, 3616348.0,       3.0,       3.0,       1.8);         ( 488040.1,
3616348.0,       3.0,       3.0,       1.8);
     ( 488090.1, 3616348.0,       3.0,       3.0,       1.8);         ( 488140.1,
3616348.0,       4.0,       4.0,       1.8);
     ( 488190.1, 3616348.0,       4.7,       4.7,       1.8);         ( 488240.1,
3616348.0,       4.6,       4.6,       1.8);
     ( 488290.1, 3616348.0,       4.0,       4.0,       1.8);         ( 488340.1,
3616348.0,       4.0,       4.0,       1.8);
     ( 488390.1, 3616348.0,       4.0,       4.0,       1.8);         ( 488440.1,
3616348.0,       4.0,       4.0,       1.8);
     ( 488490.1, 3616348.0,       4.0,       4.0,       1.8);         ( 488540.1,
3616348.0,       4.0,       4.0,       1.8);
     ( 488590.1, 3616348.0,       4.0,       4.0,       1.8);         ( 487640.1,
3616398.0,       2.4,       2.4,       1.8);
     ( 487690.1, 3616398.0,       3.0,       3.0,       1.8);         ( 487740.1,
3616398.0,       3.0,       3.0,       1.8);
     ( 487790.1, 3616398.0,       3.0,       3.0,       1.8);         ( 487840.1,
3616398.0,       3.0,       3.0,       1.8);
     ( 487890.1, 3616398.0,       3.0,       3.0,       1.8);         ( 487940.1,
3616398.0,       3.0,       3.0,       1.8);
     ( 487990.1, 3616398.0,       3.0,       3.0,       1.8);         ( 488040.1,
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

     (488390.1, 3616398.0,   4.0,   4.0,   1.8);   (488440.1,
3616398.0,   4.0,   4.0,   1.8);
     (488490.1, 3616398.0,   4.0,   4.0,   1.8);   (488540.1,
3616398.0,   4.0,   4.0,   1.8);
     (488590.1, 3616398.0,   4.0,   4.0,   1.8);   (487590.1,
3616448.0,   1.3,   1.3,   1.8);
     (487640.1, 3616448.0,   2.8,   2.8,   1.8);   (487690.1,
3616448.0,   3.0,   3.0,   1.8);
     (487740.1, 3616448.0,   3.0,   3.0,   1.8);   (487790.1,
3616448.0,   3.0,   3.0,   1.8);
     (487840.1, 3616448.0,   3.0,   3.0,   1.8);   (487890.1,
3616448.0,   3.0,   3.0,   1.8);
     (487940.1, 3616448.0,   3.0,   3.0,   1.8);   (487990.1,
3616448.0,   3.0,   3.0,   1.8);
     (488040.1, 3616448.0,   3.0,   3.0,   1.8);   (488090.1,
3616448.0,   3.0,   3.0,   1.8);
     (488140.1, 3616448.0,   4.0,   4.0,   1.8);   (488190.1,
3616448.0,   4.7,   4.7,   1.8);
     (488240.1, 3616448.0,   5.4,   5.4,   1.8);   (488290.1,
3616448.0,   4.7,   4.7,   1.8);
     (488340.1, 3616448.0,   4.7,   4.7,   1.8);   (488390.1,
3616448.0,   4.0,   4.0,   1.8);
     (488440.1, 3616448.0,   4.0,   4.0,   1.8);   (488490.1,
3616448.0,   4.0,   4.0,   1.8);
     (488540.1, 3616448.0,   4.0,   4.0,   1.8);   (488590.1,
3616448.0,   4.7,   4.7,   1.8);
     (487540.1, 3616498.0,   0.0,   0.0,   1.8);   (487590.1,
3616498.0,   1.4,   1.4,   1.8);
     (487640.1, 3616498.0,   3.0,   3.0,   1.8);   (487690.1,
3616498.0,   3.0,   3.0,   1.8);
     (487740.1, 3616498.0,   3.0,   3.0,   1.8);   (487790.1,

```
3616498.0,       3.0,       3.0,       1.8);
     ( 487840.1, 3616498.0,       3.0,       3.0,       1.8);         ( 487890.1,
3616498.0,       3.0,       3.0,       1.8);
     ( 487940.1, 3616498.0,       3.0,       3.0,       1.8);         ( 487990.1,
3616498.0,       3.0,       3.0,       1.8);
     ( 488040.1, 3616498.0,       3.0,       3.0,       1.8);         ( 488090.1,
3616498.0,       3.4,       3.4,       1.8);
     ( 488140.1, 3616498.0,       4.0,       4.0,       1.8);         ( 488190.1,
3616498.0,       5.2,       5.2,       1.8);
     ( 488240.1, 3616498.0,       5.0,       5.0,       1.8);         ( 488290.1,
3616498.0,       4.6,       4.6,       1.8);
     ( 488340.1, 3616498.0,       5.0,       5.0,       1.8);         ( 488390.1,
3616498.0,       5.0,       5.0,       1.8);
     ( 488440.1, 3616498.0,       4.4,       4.4,       1.8);         ( 488490.1,
3616498.0,       4.8,       4.8,       1.8);
     ( 488540.1, 3616498.0,       5.0,       5.0,       1.8);         ( 488590.1,
3616498.0,       5.0,       5.0,       1.8);
     ( 484613.0, 3614429.9,       2.7,       2.7,       1.8);         ( 484663.0,
3614429.9,       3.0,       3.0,       1.8);
     ( 484713.0, 3614429.9,       3.0,       3.0,       1.8);         ( 484763.0,
3614429.9,       3.0,       3.0,       1.8);
     ( 484813.0, 3614429.9,       3.0,       3.0,       1.8);         ( 484863.0,
3614429.9,       3.0,       3.0,       1.8);
     ( 484913.0, 3614429.9,       0.6,       0.6,       1.8);         ( 484963.0,
3614429.9,       0.0,       0.0,       1.8);
     ( 484563.0, 3614479.9,       2.8,       2.8,       1.8);         ( 484613.0,
3614479.9,       3.0,       3.0,       1.8);
     ( 484663.0, 3614479.9,       3.0,       3.0,       1.8);         ( 484713.0,
3614479.9,       3.0,       3.0,       1.8);
     ( 484763.0, 3614479.9,       3.0,       3.0,       1.8);         ( 484813.0,
3614479.9,       3.0,       3.0,       1.8);
     ( 484863.0, 3614479.9,       3.0,       3.0,       1.8);         ( 484913.0,
3614479.9,       1.1,       1.1,       1.8);
     ( 484963.0, 3614479.9,       0.0,       0.0,       1.8);         ( 484513.0,
3614529.9,       2.8,       2.8,       1.8);
     ( 484563.0, 3614529.9,       3.0,       3.0,       1.8);         ( 484613.0,
3614529.9,       3.0,       3.0,       1.8);
     ( 484663.0, 3614529.9,       3.0,       3.0,       1.8);         ( 484713.0,
3614529.9,       3.0,       3.0,       1.8);
     ( 484763.0, 3614529.9,       3.0,       3.0,       1.8);         ( 484813.0,
3614529.9,       3.0,       3.0,       1.8);
     ( 484863.0, 3614529.9,       3.0,       3.0,       1.8);         ( 484913.0,
3614529.9,       1.1,       1.1,       1.8);
     ( 484963.0, 3614529.9,       0.0,       0.0,       1.8);         ( 484463.0,
3614579.9,       2.7,       2.7,       1.8);
     ( 484513.0, 3614579.9,       3.0,       3.0,       1.8);         ( 484563.0,
3614579.9,       3.0,       3.0,       1.8);
     ( 484613.0, 3614579.9,       3.0,       3.0,       1.8);         ( 484663.0,
3614579.9,       3.0,       3.0,       1.8);
     ( 484713.0, 3614579.9,       3.0,       3.0,       1.8);         ( 484763.0,
```

3614579.9,   3.0,   3.0,   1.8);
     (484813.0, 3614579.9,   3.0,   3.0,   1.8);   (484863.0,
3614579.9,   3.0,   3.0,   1.8);
     (484913.0, 3614579.9,   1.8,   1.8,   1.8);   (484963.0,
3614579.9,   0.0,   0.0,   1.8);
     (484413.0, 3614629.9,   2.8,   2.8,   1.8);   (484463.0,
3614629.9,   3.0,   3.0,   1.8);
     (484513.0, 3614629.9,   3.0,   3.0,   1.8);   (484563.0,
3614629.9,   3.0,   3.0,   1.8);

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (484613.0, 3614629.9,   3.0,   3.0,   1.8);   (484663.0,
3614629.9,   3.0,   3.0,   1.8);
     (484713.0, 3614629.9,   3.0,   3.0,   1.8);   (484763.0,
3614629.9,   3.0,   3.0,   1.8);
     (484813.0, 3614629.9,   3.0,   3.0,   1.8);   (484863.0,
3614629.9,   3.0,   3.0,   1.8);
     (484913.0, 3614629.9,   2.6,   2.6,   1.8);   (484963.0,
3614629.9,   0.2,   0.2,   1.8);
     (484413.0, 3614679.9,   3.0,   3.0,   1.8);   (484463.0,
3614679.9,   3.0,   3.0,   1.8);
     (484513.0, 3614679.9,   3.0,   3.0,   1.8);   (484563.0,
3614679.9,   3.0,   3.0,   1.8);
     (484613.0, 3614679.9,   3.0,   3.0,   1.8);   (484663.0,
3614679.9,   3.0,   3.0,   1.8);
     (484713.0, 3614679.9,   3.0,   3.0,   1.8);   (484763.0,
3614679.9,   3.0,   3.0,   1.8);
     (484813.0, 3614679.9,   3.0,   3.0,   1.8);   (484863.0,
3614679.9,   3.0,   3.0,   1.8);
     (484913.0, 3614679.9,   3.0,   3.0,   1.8);   (484963.0,
3614679.9,   1.7,   1.7,   1.8);
     (484363.0, 3614729.9,   3.0,   3.0,   1.8);   (484413.0,
3614729.9,   3.0,   3.0,   1.8);
     (484463.0, 3614729.9,   3.0,   3.0,   1.8);   (484513.0,
3614729.9,   3.0,   3.0,   1.8);
     (484563.0, 3614729.9,   3.0,   3.0,   1.8);   (484613.0,
3614729.9,   3.0,   3.0,   1.8);
     (484663.0, 3614729.9,   3.0,   3.0,   1.8);   (484713.0,
3614729.9,   3.0,   3.0,   1.8);
     (484763.0, 3614729.9,   3.0,   3.0,   1.8);   (484813.0,

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3614729.9,       3.0,       3.0,       1.8);
     ( 484863.0, 3614729.9,       3.0,       3.0,       1.8);         ( 484913.0,
3614729.9,       3.0,       3.0,       1.8);
     ( 484963.0, 3614729.9,       1.7,       1.7,       1.8);         ( 484313.0,
3614779.9,       3.0,       3.0,       1.8);
     ( 484363.0, 3614779.9,       3.0,       3.0,       1.8);         ( 484413.0,
3614779.9,       3.0,       3.0,       1.8);
     ( 484463.0, 3614779.9,       3.0,       3.0,       1.8);         ( 484513.0,
3614779.9,       3.0,       3.0,       1.8);
     ( 484563.0, 3614779.9,       3.0,       3.0,       1.8);         ( 484613.0,
3614779.9,       3.0,       3.0,       1.8);
     ( 484663.0, 3614779.9,       3.0,       3.0,       1.8);         ( 484713.0,
3614779.9,       3.0,       3.0,       1.8);
     ( 484763.0, 3614779.9,       3.0,       3.0,       1.8);         ( 484813.0,
3614779.9,       3.0,       3.0,       1.8);
     ( 484863.0, 3614779.9,       3.0,       3.0,       1.8);         ( 484913.0,
3614779.9,       3.0,       3.0,       1.8);
     ( 484963.0, 3614779.9,       1.7,       1.7,       1.8);         ( 484263.0,
3614829.9,       3.0,       3.0,       1.8);
     ( 484313.0, 3614829.9,       3.0,       3.0,       1.8);         ( 484363.0,
3614829.9,       3.0,       3.0,       1.8);
     ( 484413.0, 3614829.9,       3.0,       3.0,       1.8);         ( 484463.0,
3614829.9,       3.0,       3.0,       1.8);
     ( 484513.0, 3614829.9,       3.0,       3.0,       1.8);         ( 484563.0,
3614829.9,       3.0,       3.0,       1.8);
     ( 484613.0, 3614829.9,       3.0,       3.0,       1.8);         ( 484663.0,
3614829.9,       3.0,       3.0,       1.8);
     ( 484713.0, 3614829.9,       3.0,       3.0,       1.8);         ( 484763.0,
3614829.9,       3.0,       3.0,       1.8);
     ( 484813.0, 3614829.9,       3.0,       3.0,       1.8);         ( 484863.0,
3614829.9,       3.0,       3.0,       1.8);
     ( 484913.0, 3614829.9,       3.0,       3.0,       1.8);         ( 484963.0,
3614829.9,       0.4,       0.4,       1.8);
     ( 484213.0, 3614879.9,       3.0,       3.0,       1.8);         ( 484263.0,
3614879.9,       3.0,       3.0,       1.8);
     ( 484313.0, 3614879.9,       3.0,       3.0,       1.8);         ( 484363.0,
3614879.9,       3.0,       3.0,       1.8);
     ( 484413.0, 3614879.9,       3.0,       3.0,       1.8);         ( 484463.0,
3614879.9,       3.0,       3.0,       1.8);
     ( 484513.0, 3614879.9,       3.0,       3.0,       1.8);         ( 484563.0,
3614879.9,       3.0,       3.0,       1.8);
     ( 484613.0, 3614879.9,       3.0,       3.0,       1.8);         ( 484663.0,
3614879.9,       3.0,       3.0,       1.8);
     ( 484713.0, 3614879.9,       3.0,       3.0,       1.8);         ( 484763.0,
3614879.9,       3.0,       3.0,       1.8);
     ( 484813.0, 3614879.9,       3.0,       3.0,       1.8);         ( 484863.0,
3614879.9,       3.0,       3.0,       1.8);
     ( 484913.0, 3614879.9,       3.0,       3.0,       1.8);         ( 484963.0,
3614879.9,       1.7,       1.7,       1.8);
     ( 484163.0, 3614929.9,       2.5,       2.5,       1.8);         ( 484213.0,
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     (484263.0, 3614929.9,   3.0,   3.0,   1.8);   (484313.0,
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     (484363.0, 3614929.9,   3.0,   3.0,   1.8);   (484413.0,
3614929.9,   3.0,   3.0,   1.8);
     (484463.0, 3614929.9,   3.0,   3.0,   1.8);   (484513.0,
3614929.9,   3.0,   3.0,   1.8);
     (484563.0, 3614929.9,   3.0,   3.0,   1.8);   (484613.0,
3614929.9,   3.0,   3.0,   1.8);
     (484663.0, 3614929.9,   3.0,   3.0,   1.8);   (484713.0,
3614929.9,   3.0,   3.0,   1.8);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (484763.0, 3614929.9,   3.0,   3.0,   1.8);   (484813.0,
3614929.9,   3.0,   3.0,   1.8);
     (484863.0, 3614929.9,   3.0,   3.0,   1.8);   (484913.0,
3614929.9,   3.0,   3.0,   1.8);
     (484963.0, 3614929.9,   2.9,   2.9,   1.8);   (485013.0,
3614929.9,   0.4,   0.4,   1.8);
     (484113.0, 3614979.9,   2.8,   2.8,   1.8);   (484163.0,
3614979.9,   3.0,   3.0,   1.8);
     (484213.0, 3614979.9,   3.0,   3.0,   1.8);   (484263.0,
3614979.9,   3.0,   3.0,   1.8);
     (484313.0, 3614979.9,   3.0,   3.0,   1.8);   (484363.0,
3614979.9,   3.0,   3.0,   1.8);
     (484413.0, 3614979.9,   3.0,   3.0,   1.8);   (484463.0,
3614979.9,   3.0,   3.0,   1.8);
     (484513.0, 3614979.9,   3.0,   3.0,   1.8);   (484563.0,
3614979.9,   3.0,   3.0,   1.8);
     (484613.0, 3614979.9,   3.0,   3.0,   1.8);   (484663.0,
3614979.9,   3.0,   3.0,   1.8);
     (484713.0, 3614979.9,   3.0,   3.0,   1.8);   (484763.0,
3614979.9,   3.0,   3.0,   1.8);
     (484813.0, 3614979.9,   3.0,   3.0,   1.8);   (484863.0,
3614979.9,   3.0,   3.0,   1.8);
     (484913.0, 3614979.9,   3.0,   3.0,   1.8);   (484963.0,
3614979.9,   2.9,   2.9,   1.8);
     (485013.0, 3614979.9,   0.4,   0.4,   1.8);   (484113.0,
3615029.9,   3.0,   3.0,   1.8);
     (484163.0, 3615029.9,   3.0,   3.0,   1.8);   (484213.0,

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3615029.9,       3.0,       3.0,       1.8);
     ( 484263.0, 3615029.9,       3.0,       3.0,       1.8);         ( 484313.0,
3615029.9,       3.0,       3.0,       1.8);
     ( 484363.0, 3615029.9,       3.0,       3.0,       1.8);         ( 484413.0,
3615029.9,       3.0,       3.0,       1.8);
     ( 484463.0, 3615029.9,       3.0,       3.0,       1.8);         ( 484513.0,
3615029.9,       3.0,       3.0,       1.8);
     ( 484563.0, 3615029.9,       3.0,       3.0,       1.8);         ( 484613.0,
3615029.9,       3.0,       3.0,       1.8);
     ( 484663.0, 3615029.9,       3.0,       3.0,       1.8);         ( 484713.0,
3615029.9,       3.0,       3.0,       1.8);
     ( 484763.0, 3615029.9,       3.0,       3.0,       1.8);         ( 484813.0,
3615029.9,       3.0,       3.0,       1.8);
     ( 484863.0, 3615029.9,       3.0,       3.0,       1.8);         ( 484913.0,
3615029.9,       3.0,       3.0,       1.8);
     ( 484963.0, 3615029.9,       3.0,       3.0,       1.8);         ( 485013.0,
3615029.9,       2.6,       2.6,       1.8);
     ( 485063.0, 3615029.9,       0.5,       0.5,       1.8);         ( 484113.0,
3615079.9,       3.0,       3.0,       1.8);
     ( 484163.0, 3615079.9,       3.0,       3.0,       1.8);         ( 484213.0,
3615079.9,       3.0,       3.0,       1.8);
     ( 484263.0, 3615079.9,       3.0,       3.0,       1.8);         ( 484313.0,
3615079.9,       3.0,       3.0,       1.8);
     ( 484363.0, 3615079.9,       3.0,       3.0,       1.8);         ( 484413.0,
3615079.9,       3.0,       3.0,       1.8);
     ( 484463.0, 3615079.9,       3.0,       3.0,       1.8);         ( 484513.0,
3615079.9,       3.0,       3.0,       1.8);
     ( 484563.0, 3615079.9,       3.0,       3.0,       1.8);         ( 484613.0,
3615079.9,       3.0,       3.0,       1.8);
     ( 484663.0, 3615079.9,       3.0,       3.0,       1.8);         ( 484713.0,
3615079.9,       3.0,       3.0,       1.8);
     ( 484763.0, 3615079.9,       3.0,       3.0,       1.8);         ( 484813.0,
3615079.9,       3.0,       3.0,       1.8);
     ( 484863.0, 3615079.9,       3.0,       3.0,       1.8);         ( 484913.0,
3615079.9,       3.0,       3.0,       1.8);
     ( 484963.0, 3615079.9,       3.0,       3.0,       1.8);         ( 485013.0,
3615079.9,       3.0,       3.0,       1.8);
     ( 485063.0, 3615079.9,       2.6,       2.6,       1.8);         ( 485113.0,
3615079.9,       0.2,       0.2,       1.8);
     ( 484113.0, 3615129.9,       3.0,       3.0,       1.8);         ( 484163.0,
3615129.9,       3.0,       3.0,       1.8);
     ( 484213.0, 3615129.9,       3.0,       3.0,       1.8);         ( 484263.0,
3615129.9,       3.0,       3.0,       1.8);
     ( 484313.0, 3615129.9,       3.0,       3.0,       1.8);         ( 484363.0,
3615129.9,       3.0,       3.0,       1.8);
     ( 484413.0, 3615129.9,       3.0,       3.0,       1.8);         ( 484463.0,
3615129.9,       3.0,       3.0,       1.8);
     ( 484513.0, 3615129.9,       3.0,       3.0,       1.8);         ( 484563.0,
3615129.9,       3.0,       3.0,       1.8);
     ( 484613.0, 3615129.9,       3.0,       3.0,       1.8);         ( 484663.0,
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3615129.9,       3.0,       3.0,       1.8);
     ( 484713.0, 3615129.9,       3.0,       3.0,       1.8);         ( 484763.0,
3615129.9,       3.0,       3.0,       1.8);
     ( 484813.0, 3615129.9,       3.0,       3.0,       1.8);         ( 484863.0,
3615129.9,       3.0,       3.0,       1.8);
     ( 484913.0, 3615129.9,       3.0,       3.0,       1.8);         ( 484963.0,
3615129.9,       3.0,       3.0,       1.8);
     ( 485013.0, 3615129.9,       3.0,       3.0,       1.8);         ( 485063.0,
3615129.9,       3.0,       3.0,       1.8);
     ( 485113.0, 3615129.9,       2.6,       2.6,       1.8);         ( 485163.0,
3615129.9,       0.3,       0.3,       1.8);
     ( 484113.0, 3615179.9,       3.0,       3.0,       1.8);         ( 484163.0,
3615179.9,       3.0,       3.0,       1.8);
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***       11:59:01

                                  PAGE  49
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                                    *** DISCRETE CARTESIAN RECEPTORS ***
                                  (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                              (METERS)

     ( 484213.0, 3615179.9,       3.0,       3.0,       1.8);         ( 484263.0,
3615179.9,       3.0,       3.0,       1.8);
     ( 484313.0, 3615179.9,       3.0,       3.0,       1.8);         ( 484363.0,
3615179.9,       3.0,       3.0,       1.8);
     ( 484413.0, 3615179.9,       3.0,       3.0,       1.8);         ( 484463.0,
3615179.9,       3.0,       3.0,       1.8);
     ( 484513.0, 3615179.9,       3.0,       3.0,       1.8);         ( 484563.0,
3615179.9,       3.0,       3.0,       1.8);
     ( 484613.0, 3615179.9,       3.0,       3.0,       1.8);         ( 484663.0,
3615179.9,       3.0,       3.0,       1.8);
     ( 484713.0, 3615179.9,       3.0,       3.0,       1.8);         ( 484763.0,
3615179.9,       3.0,       3.0,       1.8);
     ( 484813.0, 3615179.9,       3.0,       3.0,       1.8);         ( 484863.0,
3615179.9,       3.0,       3.0,       1.8);
     ( 484913.0, 3615179.9,       3.0,       3.0,       1.8);         ( 484963.0,
3615179.9,       3.0,       3.0,       1.8);
     ( 485013.0, 3615179.9,       3.0,       3.0,       1.8);         ( 485063.0,
3615179.9,       3.0,       3.0,       1.8);
     ( 485113.0, 3615179.9,       3.0,       3.0,       1.8);         ( 485163.0,
3615179.9,       2.6,       2.6,       1.8);
     ( 485213.0, 3615179.9,       1.8,       1.8,       1.8);         ( 484113.0,
3615229.9,       3.0,       3.0,       1.8);
     ( 484163.0, 3615229.9,       3.0,       3.0,       1.8);         ( 484213.0,
3615229.9,       3.0,       3.0,       1.8);
     ( 484263.0, 3615229.9,       2.9,       2.9,       1.8);         ( 484313.0,
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3615229.9,       2.9,       2.9,       1.8);
     ( 484363.0, 3615229.9,       1.7,       1.7,       1.8);         ( 484413.0,
3615229.9,       1.7,       1.7,       1.8);
     ( 484463.0, 3615229.9,       1.7,       1.7,       1.8);         ( 484513.0,
3615229.9,       1.7,       1.7,       1.8);
     ( 484563.0, 3615229.9,       1.7,       1.7,       1.8);         ( 484613.0,
3615229.9,       1.9,       1.9,       1.8);
     ( 484663.0, 3615229.9,       2.0,       2.0,       1.8);         ( 484713.0,
3615229.9,       2.7,       2.7,       1.8);
     ( 484763.0, 3615229.9,       2.9,       2.9,       1.8);         ( 484813.0,
3615229.9,       3.0,       3.0,       1.8);
     ( 484863.0, 3615229.9,       3.0,       3.0,       1.8);         ( 484913.0,
3615229.9,       3.0,       3.0,       1.8);
     ( 484963.0, 3615229.9,       3.0,       3.0,       1.8);         ( 485013.0,
3615229.9,       3.0,       3.0,       1.8);
     ( 485063.0, 3615229.9,       3.0,       3.0,       1.8);         ( 485113.0,
3615229.9,       3.0,       3.0,       1.8);
     ( 485163.0, 3615229.9,       3.0,       3.0,       1.8);         ( 485213.0,
3615229.9,       3.0,       3.0,       1.8);
     ( 485263.0, 3615229.9,       1.9,       1.9,       1.8);         ( 484113.0,
3615279.9,       3.0,       3.0,       1.8);
     ( 484163.0, 3615279.9,       3.0,       3.0,       1.8);         ( 484213.0,
3615279.9,       2.2,       2.2,       1.8);
     ( 484263.0, 3615279.9,       0.8,       0.8,       1.8);         ( 484313.0,
3615279.9,       0.4,       0.4,       1.8);
     ( 484613.0, 3615279.9,       0.7,       0.7,       1.8);         ( 484663.0,
3615279.9,       2.0,       2.0,       1.8);
     ( 484713.0, 3615279.9,       2.0,       2.0,       1.8);         ( 484763.0,
3615279.9,       2.5,       2.5,       1.8);
     ( 484813.0, 3615279.9,       3.0,       3.0,       1.8);         ( 484863.0,
3615279.9,       3.0,       3.0,       1.8);
     ( 484913.0, 3615279.9,       3.0,       3.0,       1.8);         ( 484963.0,
3615279.9,       3.0,       3.0,       1.8);
     ( 485013.0, 3615279.9,       3.0,       3.0,       1.8);         ( 485063.0,
3615279.9,       3.0,       3.0,       1.8);
     ( 485113.0, 3615279.9,       3.0,       3.0,       1.8);         ( 485163.0,
3615279.9,       3.0,       3.0,       1.8);
     ( 485213.0, 3615279.9,       3.0,       3.0,       1.8);         ( 485263.0,
3615279.9,       3.0,       3.0,       1.8);
     ( 485313.0, 3615279.9,       1.8,       1.8,       1.8);         ( 484113.0,
3615329.9,       2.6,       2.6,       1.8);
     ( 484163.0, 3615329.9,       1.1,       1.1,       1.8);         ( 484213.0,
3615329.9,       0.0,       0.0,       1.8);
     ( 484663.0, 3615329.9,       0.7,       0.7,       1.8);         ( 484713.0,
3615329.9,       1.9,       1.9,       1.8);
     ( 484763.0, 3615329.9,       2.0,       2.0,       1.8);         ( 484813.0,
3615329.9,       3.0,       3.0,       1.8);
     ( 484863.0, 3615329.9,       3.0,       3.0,       1.8);         ( 484913.0,
3615329.9,       3.0,       3.0,       1.8);
     ( 484963.0, 3615329.9,       3.0,       3.0,       1.8);         ( 485013.0,
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3615329.9,   3.0,   3.0,   1.8);
     (485063.0, 3615329.9,   3.0,   3.0,   1.8);   (485113.0,
3615329.9,   3.0,   3.0,   1.8);
     (485163.0, 3615329.9,   3.0,   3.0,   1.8);   (485213.0,
3615329.9,   3.0,   3.0,   1.8);
     (485263.0, 3615329.9,   3.0,   3.0,   1.8);   (485313.0,
3615329.9,   3.0,   3.0,   1.8);
     (485363.0, 3615329.9,   2.5,   2.5,   1.8);   (484113.0,
3615379.9,   0.4,   0.4,   1.8);
     (484163.0, 3615379.9,   0.0,   0.0,   1.8);   (484713.0,
3615379.9,   0.7,   0.7,   1.8);
     (484763.0, 3615379.9,   1.9,   1.9,   1.8);   (484813.0,
3615379.9,   2.1,   2.1,   1.8);
     (484863.0, 3615379.9,   3.0,   3.0,   1.8);   (484913.0,
3615379.9,   3.0,   3.0,   1.8);

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                                    *** DISCRETE CARTESIAN RECEPTORS ***
                                  (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                               (METERS)

     (484963.0, 3615379.9,   3.0,   3.0,   1.8);   (485013.0,
3615379.9,   3.0,   3.0,   1.8);
     (485063.0, 3615379.9,   3.0,   3.0,   1.8);   (485113.0,
3615379.9,   3.0,   3.0,   1.8);
     (485163.0, 3615379.9,   3.0,   3.0,   1.8);   (485213.0,
3615379.9,   3.0,   3.0,   1.8);
     (485263.0, 3615379.9,   3.0,   3.0,   1.8);   (485313.0,
3615379.9,   3.0,   3.0,   1.8);
     (485363.0, 3615379.9,   3.0,   3.0,   1.8);   (485413.0,
3615379.9,   2.9,   2.9,   1.8);
     (484763.0, 3615429.9,   0.7,   0.7,   1.8);   (484813.0,
3615429.9,   2.0,   2.0,   1.8);
     (484863.0, 3615429.9,   2.2,   2.2,   1.8);   (484913.0,
3615429.9,   3.0,   3.0,   1.8);
     (484963.0, 3615429.9,   3.0,   3.0,   1.8);   (485013.0,
3615429.9,   3.0,   3.0,   1.8);
     (485063.0, 3615429.9,   3.0,   3.0,   1.8);   (485113.0,
3615429.9,   3.0,   3.0,   1.8);
     (485163.0, 3615429.9,   3.0,   3.0,   1.8);   (485213.0,
3615429.9,   3.0,   3.0,   1.8);
     (485263.0, 3615429.9,   3.0,   3.0,   1.8);   (485313.0,
3615429.9,   3.0,   3.0,   1.8);
     (485363.0, 3615429.9,   3.0,   3.0,   1.8);   (485413.0,

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3615429.9,       3.0,       3.0,       1.8);
     ( 485463.0, 3615429.9,       2.8,       2.8,       1.8);         ( 485513.0,
3615429.9,       0.9,       0.9,       1.8);
     ( 484813.0, 3615479.9,       0.6,       0.6,       1.8);         ( 484863.0,
3615479.9,       1.4,       1.4,       1.8);
     ( 484913.0, 3615479.9,       2.8,       2.8,       1.8);         ( 484963.0,
3615479.9,       3.0,       3.0,       1.8);
     ( 485013.0, 3615479.9,       3.0,       3.0,       1.8);         ( 485063.0,
3615479.9,       3.0,       3.0,       1.8);
     ( 485113.0, 3615479.9,       3.0,       3.0,       1.8);         ( 485163.0,
3615479.9,       3.0,       3.0,       1.8);
     ( 485213.0, 3615479.9,       3.0,       3.0,       1.8);         ( 485263.0,
3615479.9,       3.0,       3.0,       1.8);
     ( 485313.0, 3615479.9,       3.0,       3.0,       1.8);         ( 485363.0,
3615479.9,       3.0,       3.0,       1.8);
     ( 485413.0, 3615479.9,       3.0,       3.0,       1.8);         ( 485463.0,
3615479.9,       3.0,       3.0,       1.8);
     ( 485513.0, 3615479.9,       1.1,       1.1,       1.8);         ( 485563.0,
3615479.9,       0.0,       0.0,       1.8);
     ( 484863.0, 3615529.9,       0.0,       0.0,       1.8);         ( 484913.0,
3615529.9,       1.3,       1.3,       1.8);
     ( 484963.0, 3615529.9,       2.9,       2.9,       1.8);         ( 485013.0,
3615529.9,       3.0,       3.0,       1.8);
     ( 485063.0, 3615529.9,       3.0,       3.0,       1.8);         ( 485113.0,
3615529.9,       3.0,       3.0,       1.8);
     ( 485163.0, 3615529.9,       3.0,       3.0,       1.8);         ( 485213.0,
3615529.9,       3.0,       3.0,       1.8);
     ( 485263.0, 3615529.9,       3.0,       3.0,       1.8);         ( 485313.0,
3615529.9,       3.0,       3.0,       1.8);
     ( 485363.0, 3615529.9,       3.0,       3.0,       1.8);         ( 485413.0,
3615529.9,       3.0,       3.0,       1.8);
     ( 485463.0, 3615529.9,       3.0,       3.0,       1.8);         ( 485513.0,
3615529.9,       1.1,       1.1,       1.8);
     ( 484913.0, 3615579.9,       0.1,       0.1,       1.8);         ( 484963.0,
3615579.9,       1.3,       1.3,       1.8);
     ( 485013.0, 3615579.9,       2.2,       2.2,       1.8);         ( 485063.0,
3615579.9,       2.2,       2.2,       1.8);
     ( 485113.0, 3615579.9,       3.0,       3.0,       1.8);         ( 485163.0,
3615579.9,       3.0,       3.0,       1.8);
     ( 485213.0, 3615579.9,       3.0,       3.0,       1.8);         ( 485263.0,
3615579.9,       3.0,       3.0,       1.8);
     ( 485313.0, 3615579.9,       3.0,       3.0,       1.8);         ( 485363.0,
3615579.9,       3.0,       3.0,       1.8);
     ( 485413.0, 3615579.9,       3.0,       3.0,       1.8);         ( 485463.0,
3615579.9,       3.0,       3.0,       1.8);
     ( 484963.0, 3615629.9,       0.1,       0.1,       1.8);         ( 485013.0,
3615629.9,       1.3,       1.3,       1.8);
     ( 485063.0, 3615629.9,       2.0,       2.0,       1.8);         ( 485113.0,
3615629.9,       2.0,       2.0,       1.8);
     ( 485163.0, 3615629.9,       2.4,       2.4,       1.8);         ( 485213.0,
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```
3618053.2,      27.3,      27.3,       1.8);
     ( 487232.0, 3618053.2,      28.0,      28.0,       1.8);         ( 487281.9,
3618053.2,      28.0,      28.0,       1.8);
     ( 486424.8, 3617998.6,      13.3,      13.3,       1.8);         ( 486474.7,
3617998.6,      14.2,      14.2,       1.8);
     ( 486524.6, 3617998.6,      15.2,      15.2,       1.8);         ( 486574.5,
3617998.6,      16.8,      16.8,       1.8);
     ( 486624.4, 3617998.6,      18.0,      18.0,       1.8);         ( 486674.2,
3617998.6,      18.7,      18.7,       1.8);
     ( 486724.1, 3617998.6,      19.8,      19.8,       1.8);         ( 486774.0,
3617998.6,      20.9,      20.9,       1.8);
     ( 486823.9, 3617998.6,      21.9,      21.9,       1.8);         ( 486873.8,
3617998.6,      23.1,      23.1,       1.8);
     ( 486923.7, 3617998.6,      24.7,      24.7,       1.8);         ( 486973.6,
3617998.6,      25.1,      25.1,       1.8);
     ( 487023.5, 3617998.6,      25.4,      25.4,       1.8);         ( 487082.3,
3618103.2,      27.9,      27.9,       1.8);
     ( 487132.2, 3618103.2,      28.9,      28.9,       1.8);         ( 487182.1,
3618103.2,      28.9,      28.9,       1.8);
     ( 486374.9, 3618048.6,      13.3,      13.3,       1.8);         ( 486424.8,
3618048.6,      14.1,      14.1,       1.8);
     ( 486474.7, 3618048.6,      15.1,      15.1,       1.8);         ( 486524.6,
3618048.6,      16.0,      16.0,       1.8);
     ( 486574.5, 3618048.6,      16.9,      16.9,       1.8);         ( 486624.4,
3618048.6,      17.6,      17.6,       1.8);
     ( 486674.2, 3618048.6,      18.2,      18.2,       1.8);         ( 486724.1,
3618048.6,      19.8,      19.8,       1.8);
     ( 486774.0, 3618048.6,      21.5,      21.5,       1.8);         ( 486823.9,
3618048.6,      24.0,      24.0,       1.8);
     ( 486873.8, 3618048.6,      24.1,      24.1,       1.8);         ( 486923.7,
3618048.6,      25.0,      25.0,       1.8);
     ( 486973.6, 3618048.6,      26.0,      26.0,       1.8);         ( 487023.5,
3618048.6,      26.1,      26.1,       1.8);
     ( 487082.3, 3618153.2,      29.2,      29.2,       1.8);         ( 487132.2,
3618153.2,      29.8,      29.8,       1.8);
     ( 486325.0, 3618098.6,      13.4,      13.4,       1.8);         ( 486374.9,
3618098.6,      14.2,      14.2,       1.8);
     ( 486424.8, 3618098.6,      15.0,      15.0,       1.8);         ( 486474.7,
3618098.6,      15.9,      15.9,       1.8);
     ( 486524.6, 3618098.6,      16.8,      16.8,       1.8);         ( 486574.5,
3618098.6,      17.6,      17.6,       1.8);
     ( 486624.4, 3618098.6,      18.4,      18.4,       1.8);         ( 486674.2,
3618098.6,      18.8,      18.8,       1.8);
     ( 486724.1, 3618098.6,      19.2,      19.2,       1.8);         ( 486774.0,
3618098.6,      21.6,      21.6,       1.8);
     ( 486823.9, 3618098.6,      24.0,      24.0,       1.8);         ( 486873.8,
3618098.6,      24.9,      24.9,       1.8);
     ( 486923.7, 3618098.6,      25.0,      25.0,       1.8);         ( 486973.6,
3618098.6,      26.0,      26.0,       1.8);
     ( 487023.5, 3618098.6,      26.8,      26.8,       1.8);         ( 487082.3,
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3618203.2,   29.6,   29.6,   1.8);
     (486275.1, 3618148.6,   13.9,   13.9,   1.8);   (486325.0,
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     (486374.9, 3618148.6,   15.1,   15.1,   1.8);   (486424.8,
3618148.6,   15.9,   15.9,   1.8);
     (486474.7, 3618148.6,   16.7,   16.7,   1.8);   (486524.6,
3618148.6,   17.5,   17.5,   1.8);
     (486574.5, 3618148.6,   18.0,   18.0,   1.8);   (486624.4,
3618148.6,   18.0,   18.0,   1.8);
     (486674.2, 3618148.6,   18.0,   18.0,   1.8);   (486724.1,
3618148.6,   18.5,   18.5,   1.8);
     (486774.0, 3618148.6,   20.8,   20.8,   1.8);   (486823.9,
3618148.6,   23.1,   23.1,   1.8);
     (486873.8, 3618148.6,   23.9,   23.9,   1.8);   (486923.7,
3618148.6,   25.0,   25.0,   1.8);
     (486973.6, 3618148.6,   26.0,   26.0,   1.8);   (487023.5,
3618148.6,   26.8,   26.8,   1.8);
     (486225.2, 3618198.6,   13.3,   13.3,   1.8);   (486275.1,
3618198.6,   14.1,   14.1,   1.8);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (486325.0, 3618198.6,   15.6,   15.6,   1.8);   (486374.9,
3618198.6,   16.3,   16.3,   1.8);
     (486424.8, 3618198.6,   17.1,   17.1,   1.8);   (486474.7,
3618198.6,   17.6,   17.6,   1.8);
     (486524.6, 3618198.6,   18.0,   18.0,   1.8);   (486574.5,
3618198.6,   18.0,   18.0,   1.8);
     (486624.4, 3618198.6,   18.1,   18.1,   1.8);   (486674.2,
3618198.6,   19.0,   19.0,   1.8);
     (486724.1, 3618198.6,   18.2,   18.2,   1.8);   (486774.0,
3618198.6,   20.4,   20.4,   1.8);
     (486823.9, 3618198.6,   22.2,   22.2,   1.8);   (486873.8,
3618198.6,   23.8,   23.8,   1.8);
     (486923.7, 3618198.6,   24.4,   24.4,   1.8);   (486973.6,
3618198.6,   25.1,   25.1,   1.8);
     (487023.5, 3618198.6,   26.8,   26.8,   1.8);   (486175.3,
3618248.6,   13.4,   13.4,   1.8);
     (486225.2, 3618248.6,   14.2,   14.2,   1.8);   (486275.1,
3618248.6,   15.6,   15.6,   1.8);
     (486325.0, 3618248.6,   16.4,   16.4,   1.8);   (486374.9,

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3618248.6,      17.2,      17.2,       1.8);
     ( 486424.8, 3618248.6,      18.0,      18.0,       1.8);         ( 486474.7,
3618248.6,      18.0,      18.0,       1.8);
     ( 486524.6, 3618248.6,      18.0,      18.0,       1.8);         ( 486574.5,
3618248.6,      18.0,      18.0,       1.8);
     ( 486624.4, 3618248.6,      18.5,      18.5,       1.8);         ( 486674.2,
3618248.6,      19.0,      19.0,       1.8);
     ( 486724.1, 3618248.6,      19.6,      19.6,       1.8);         ( 486774.0,
3618248.6,      20.4,      20.4,       1.8);
     ( 486823.9, 3618248.6,      22.0,      22.0,       1.8);         ( 486873.8,
3618248.6,      22.9,      22.9,       1.8);
     ( 486923.7, 3618248.6,      23.6,      23.6,       1.8);         ( 486973.6,
3618248.6,      24.2,      24.2,       1.8);
     ( 487023.5, 3618248.6,      25.9,      25.9,       1.8);         ( 486125.5,
3618298.6,      11.9,      11.9,       1.8);
     ( 486175.3, 3618298.6,      13.5,      13.5,       1.8);         ( 486225.2,
3618298.6,      15.2,      15.2,       1.8);
     ( 486275.1, 3618298.6,      16.4,      16.4,       1.8);         ( 486325.0,
3618298.6,      17.2,      17.2,       1.8);
     ( 486374.9, 3618298.6,      18.0,      18.0,       1.8);         ( 486424.8,
3618298.6,      18.0,      18.0,       1.8);
     ( 486474.7, 3618298.6,      18.0,      18.0,       1.8);         ( 486524.6,
3618298.6,      18.0,      18.0,       1.8);
     ( 486574.5, 3618298.6,      18.0,      18.0,       1.8);         ( 486624.4,
3618298.6,      18.3,      18.3,       1.8);
     ( 486674.2, 3618298.6,      18.7,      18.7,       1.8);         ( 486724.1,
3618298.6,      19.8,      19.8,       1.8);
     ( 486774.0, 3618298.6,      20.5,      20.5,       1.8);         ( 486823.9,
3618298.6,      21.6,      21.6,       1.8);
     ( 486873.8, 3618298.6,      22.8,      22.8,       1.8);         ( 486923.7,
3618298.6,      23.5,      23.5,       1.8);
     ( 486125.5, 3618348.6,      11.9,      11.9,       1.8);         ( 486175.3,
3618348.6,      13.6,      13.6,       1.8);
     ( 486225.2, 3618348.6,      16.2,      16.2,       1.8);         ( 486275.1,
3618348.6,      17.1,      17.1,       1.8);
     ( 486325.0, 3618348.6,      18.0,      18.0,       1.8);         ( 486374.9,
3618348.6,      18.0,      18.0,       1.8);
     ( 486424.8, 3618348.6,      18.0,      18.0,       1.8);         ( 486474.7,
3618348.6,      18.0,      18.0,       1.8);
     ( 486524.6, 3618348.6,      18.0,      18.0,       1.8);         ( 486574.5,
3618348.6,      18.0,      18.0,       1.8);
     ( 486624.4, 3618348.6,      18.0,      18.0,       1.8);         ( 486674.2,
3618348.6,      19.0,      19.0,       1.8);
     ( 486724.1, 3618348.6,      19.8,      19.8,       1.8);         ( 486774.0,
3618348.6,      20.5,      20.5,       1.8);
     ( 486823.9, 3618348.6,      21.2,      21.2,       1.8);         ( 486873.8,
3618348.6,      22.8,      22.8,       1.8);
     ( 486125.5, 3618398.6,      11.9,      11.9,       1.8);         ( 486175.3,
3618398.6,      13.3,      18.0,       1.8);
     ( 486225.2, 3618398.6,      17.6,      17.6,       1.8);         ( 486275.1,
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3618398.6,   18.0,   18.0,   1.8);
     (486325.0, 3618398.6,   18.0,   18.0,   1.8);   (486374.9,
3618398.6,   18.0,   18.0,   1.8);
     (486424.8, 3618398.6,   18.0,   18.0,   1.8);   (486474.7,
3618398.6,   18.0,   18.0,   1.8);
     (486524.6, 3618398.6,   18.0,   18.0,   1.8);   (486574.5,
3618398.6,   18.0,   18.0,   1.8);
     (486624.4, 3618398.6,   18.0,   18.0,   1.8);   (486674.2,
3618398.6,   18.4,   18.4,   1.8);
     (486724.1, 3618398.6,   19.0,   19.0,   1.8);   (486774.0,
3618398.6,   20.5,   20.5,   1.8);
     (486823.9, 3618398.6,   21.2,   21.2,   1.8);   (486125.5,
3618448.6,   10.9,   22.0,   1.8);
     (486175.3, 3618448.6,   14.3,   22.0,   1.8);   (486225.2,
3618448.6,   18.4,   18.4,   1.8);
     (486275.1, 3618448.6,   18.4,   18.4,   1.8);   (486325.0,
3618448.6,   17.4,   17.4,   1.8);
     (486374.9, 3618448.6,   17.0,   17.0,   1.8);   (486424.8,
3618448.6,   17.0,   17.0,   1.8);
     (486474.7, 3618448.6,   17.3,   17.3,   1.8);   (486524.6,
3618448.6,   18.0,   18.0,   1.8);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (486574.5, 3618448.6,   18.0,   18.0,   1.8);   (486624.4,
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     (486674.2, 3618448.6,   18.0,   18.0,   1.8);   (486724.1,
3618448.6,   18.8,   18.8,   1.8);
     (486774.0, 3618448.6,   19.5,   19.5,   1.8);   (486125.5,
3618498.6,   11.9,   22.0,   1.8);
     (486175.3, 3618498.6,   18.0,   22.0,   1.8);   (486225.2,
3618498.6,   20.9,   22.0,   1.8);
     (486275.1, 3618498.6,   15.2,   22.0,   1.8);   (486325.0,
3618498.6,   14.9,   14.9,   1.8);
     (486374.9, 3618498.6,   15.9,   15.9,   1.8);   (486424.8,
3618498.6,   16.8,   16.8,   1.8);
     (486474.7, 3618498.6,   17.0,   17.0,   1.8);   (486524.6,
3618498.6,   17.2,   17.2,   1.8);
     (486574.5, 3618498.6,   17.9,   17.9,   1.8);   (486624.4,
3618498.6,   18.0,   18.0,   1.8);
     (486674.2, 3618498.6,   18.0,   18.0,   1.8);   (486125.5,

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3618548.6,      11.9,      22.0,       1.8);
     ( 486175.3, 3618548.6,      21.3,      21.3,       1.8);         ( 486225.2,
3618548.6,      15.2,      22.0,       1.8);
     ( 486275.1, 3618548.6,      12.2,      22.0,       1.8);         ( 486325.0,
3618548.6,      13.5,      13.5,       1.8);
     ( 486374.9, 3618548.6,      15.2,      15.2,       1.8);         ( 486424.8,
3618548.6,      16.0,      16.0,       1.8);
     ( 486474.7, 3618548.6,      17.0,      17.0,       1.8);         ( 486524.6,
3618548.6,      17.0,      17.0,       1.8);
     ( 486574.5, 3618548.6,      17.6,      17.6,       1.8);         ( 486624.4,
3618548.6,      18.0,      18.0,       1.8);
     ( 485782.1, 3617697.1,       0.3,       0.3,       1.8);         ( 486118.0,
3618113.1,      10.2,      10.2,       1.8);
     ( 487046.4, 3616930.3,       3.0,       3.0,       0.0);         ( 487001.9,
3616865.6,       2.1,       2.1,       0.0);
     ( 487027.8, 3616812.5,       1.7,       1.7,       0.0);         ( 487059.3,
3616825.1,       2.3,       2.3,       0.0);
     ( 487097.3, 3616749.1,       0.0,       0.0,       0.0);         ( 487391.3,
3616829.0,       3.1,       3.1,       0.0);
     ( 487479.9, 3616731.3,       3.2,       3.2,       0.0);         ( 487502.8,
3616688.6,       1.5,       1.5,       0.0);
     ( 487412.3, 3616681.9,       1.1,       1.1,       0.0);         ( 487365.0,
3616592.3,       0.0,       0.0,       0.0);
     ( 487332.8, 3616532.8,       0.0,       0.0,       0.0);         ( 487293.4,
3616472.2,       0.0,       0.0,       0.0);
     ( 487248.0, 3616421.8,       0.0,       0.0,       0.0);         ( 487197.4,
3616436.1,       0.0,       0.0,       0.0);
     ( 487083.8, 3616471.3,       0.0,       0.0,       0.0);         ( 487021.6,
3616518.5,       0.0,       0.0,       0.0);
     ( 486926.8, 3616572.0,       0.0,       0.0,       0.0);         ( 486895.6,
3616630.0,       0.0,       0.0,       0.0);
     ( 486821.4, 3616675.5,       0.0,       0.0,       0.0);         ( 486753.4,
3616756.8,       0.0,       0.0,       0.0);
     ( 486732.1, 3616765.1,       0.0,       0.0,       0.0);         ( 486714.3,
3616772.0,       0.0,       0.0,       0.0);
     ( 486614.0, 3616565.3,       0.0,       0.0,       0.0);         ( 486419.3,
3616678.3,       0.0,       0.0,       0.0);
     ( 486594.8, 3616964.2,       2.4,       2.4,       0.0);         ( 486605.4,
3616981.3,       2.9,       2.9,       0.0);
     ( 486707.8, 3616937.3,       2.1,       2.1,       0.0);         ( 486905.5,
3617015.4,       4.0,       4.0,       0.0);
     ( 487046.4, 3616930.3,       3.0,       3.0,       1.8);

 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                          ***       11:59:01

                                   PAGE  54
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data
```

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *

LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
HAUL0004	487370.6	3617550.5	-3.24
HAUL0012	487420.6	3617500.5	-3.59
HAUL0013	487420.6	3617500.5	-1.98
HAUL0044	487470.6	3617250.5	-0.07
HAUL0050	487470.6	3617200.5	-1.51
HAUL0051	487470.6	3617200.5	0.54
HAUL0056	487470.6	3617150.5	-2.94
HAUL0057	487470.6	3617150.5	0.15
HAUL0062	487470.6	3617100.5	-4.36
HAUL0063	487470.6	3617100.5	0.00
HAUL0067	487470.6	3617050.5	0.71
HAUL0068	487470.6	3617050.5	-5.75
HAUL0069	487470.6	3617050.5	0.10
HAUL0075	487420.6	3617050.5	-5.61
HAUL0076	487420.6	3617050.5	-2.46
HAUL0099	487220.6	3617100.5	-1.86
HAUL0100	487220.6	3617100.5	-6.42
HAUL0112	487120.6	3617150.5	0.88

	HAUL0113	487120.6	3617150.5
-4.70			
	HAUL0114	487120.6	3617150.5
0.70			
	HAUL0126	487020.6	3617200.5
0.06			
	HAUL0139	486920.6	3617250.5
-0.70			
	HAUL0140	486920.6	3617250.5
-3.13			
	HAUL0162	486770.6	3617300.5
-1.80			
	HAUL0163	486770.6	3617300.5
-2.41			
	HAUL0183	486670.6	3617150.5
-0.68			
	HAUL0184	486670.6	3617150.5
-6.65			
	HAUL0185	486670.6	3617150.5
0.96			
	VOL1	486594.8	3616964.2
-2.68			
	VOL1	486605.4	3616981.3
-10.09			
	VOL5	486707.8	3616937.3
-4.72			
	VOL6	487097.3	3616749.1
-2.84			
	VOL19	487391.3	3616829.0
-1.68			
	VOL29	487420.6	3616800.5
-0.34			
	VOL84	487412.3	3616681.9
-0.03			
	VOL98	487412.3	3616681.9
-14.05			
	VOL99	487412.3	3616681.9
-2.04			
	VOL124	487479.9	3616731.3
-5.50			
	VOL132	486720.6	3616950.5
-0.05			
	VOL132	486707.8	3616937.3
-12.37			

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *

LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
VOL133	486720.6	3616950.5	-1.02
VOL142	486905.5	3617015.4	-3.47
VOL155	487020.6	3616950.5	-3.72
VOL156	487046.4	3616930.3	-6.88
VOL156	487046.4	3616930.3	-6.88
VOL160	487001.9	3616865.6	-12.08
VOL162	487001.9	3616865.6	-7.18
VOL163	487020.6	3616850.5	-2.91
VOL164	487027.8	3616812.5	-3.57
VOL165	487027.8	3616812.5	-10.65
VOL166	487027.8	3616812.5	-11.17
VOL167	487059.3	3616825.1	-7.07
VOL171	487097.3	3616749.1	-5.64
VOL172	487097.3	3616749.1	-9.69
VOL209	487420.6	3616800.5	-6.16
VOL214	487470.6	3616750.5	-5.58
L0001364	486605.4	3616981.3	0.61
L0001566	486424.8	3618348.6	

-0.46
L0001567 486424.8 3618348.6
-5.05
L0001575 486474.7 3618298.6
-5.17
L0001576 486474.7 3618298.6
-1.19
L0001613 486724.1 3618098.6
-2.96
L0001621 486774.0 3618048.6
-4.91
L0001622 486774.0 3618048.6
-3.48
L0001629 486823.9 3617998.6
0.66
L0001630 486823.9 3617998.6
-1.60
L0001659 487020.6 3617850.5
-1.15
L0001667 487070.6 3617800.5
-6.10
L0001668 487070.6 3617800.5
-1.83
L0001675 487120.6 3617750.5
-1.73
L0001676 487120.6 3617750.5
-2.63
VOL217 487502.8 3616688.6
-2.08

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

1 1 1

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

                    METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2010 1
1 1
                                                          AND END DATE: 2010 12
31 24

               NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON
WHAT IS INCLUDED IN THE DATA FILE.

                                  *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
CATEGORIES ***
                                                          (METERS/SEC)

                                                 1.54,   3.09,   5.14,   8.23,
10.80,
 *** AERMOD - VERSION 21112 ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***   01/07/22
 *** AERMET - VERSION 19191 ***   ***
                       ***   11:59:01

                                   PAGE 57
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                                    *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL
DATA ***

   Surface file: PES_2010_2012_sigma_v19191.SFC
                 Met Version: 19191
   Profile file: PES_2010_2012_sigma_v19191.PFL

   Surface format: FREE

   Profile format: FREE

   Surface station no.:   23188   Upper air station no.:   3190
                 Name: SAN_DIEGO/PERKINS_ELEMENTARY   Name: UNKNOWN

                 Year: 2010   Year: 2010

 First 24 hours of scalar data
 YR MO DY JDY HR   H0   U*   W* DT/DZ ZICNV ZIMCH M-O LEN   Z0 BOWEN
ALBEDO REF WS   WD   HT REF TA   HT

- - - -

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HAUL   ***
INCLUDING SOURCE(S):   HAUL0001   , HAUL0002
 , HAUL0003   , HAUL0004   , HAUL0005   ,
  HAUL0006   , HAUL0007   , HAUL0008   , HAUL0009   , HAUL0010
 , HAUL0011   , HAUL0012   , HAUL0013   ,
  HAUL0014   , HAUL0015   , HAUL0016   , HAUL0017   , HAUL0018
 , HAUL0019   , HAUL0020   , HAUL0021   ,
  HAUL0022   , HAUL0023   , HAUL0024   , HAUL0025   , HAUL0026
 , HAUL0027   , HAUL0028   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
487520.59	3616550.48	0.05770	487570.59	3616550.48	0.05660
487620.59	3616550.48	0.05449	487670.59	3616550.48	0.05188
487720.59	3616550.48	0.04936	487770.59	3616550.48	0.04692
487820.59	3616550.48	0.04460	487870.59	3616550.48	0.04238
487920.59	3616550.48	0.04029	487970.59	3616550.48	0.03831
488020.59	3616550.48	0.03646	488070.59	3616550.48	0.03471
488120.59	3616550.48	0.03327	488170.59	3616550.48	0.03187

```
         488220.59    3616550.48        0.03043                    488270.59
3616550.48        0.02890
         488320.59    3616550.48        0.02780                    488370.59
3616550.48        0.02662
         488420.59    3616550.48        0.02550                    488470.59
3616550.48        0.02446
         488520.59    3616550.48        0.02349                    488570.59
3616550.48        0.02258
         488620.59    3616550.48        0.02172                    487520.59
3616600.48        0.06245
         487570.59    3616600.48        0.06081                    487620.59
3616600.48        0.05786
         487670.59    3616600.48        0.05488                    487720.59
3616600.48        0.05200
         487770.59    3616600.48        0.04925                    487820.59
3616600.48        0.04663
         487870.59    3616600.48        0.04417                    487920.59
3616600.48        0.04185
         487970.59    3616600.48        0.03980                    488020.59
3616600.48        0.03794
         488070.59    3616600.48        0.03603                    488120.59
3616600.48        0.03426
         488170.59    3616600.48        0.03283                    488220.59
3616600.48        0.03140
         488270.59    3616600.48        0.02975                    488320.59
3616600.48        0.02859
         488370.59    3616600.48        0.02733                    488420.59
3616600.48        0.02615
         488470.59    3616600.48        0.02506                    488520.59
3616600.48        0.02403
         488570.59    3616600.48        0.02307                    488620.59
3616600.48        0.02217
         487970.59    3616650.48        0.04077                    488020.59
3616650.48        0.03946
         488070.59    3616650.48        0.03738                    488120.59
3616650.48        0.03545
         488170.59    3616650.48        0.03381                    488220.59
3616650.48        0.03223
         488270.59    3616650.48        0.03048                    488320.59
3616650.48        0.02926
         488370.59    3616650.48        0.02804                    488420.59
3616650.48        0.02683
         488470.59    3616650.48        0.02564                    488520.59
3616650.48        0.02456
         488570.59    3616650.48        0.02355                    488620.59
3616650.48        0.02260
         487520.59    3616700.48        0.07483                    487570.59
3616700.48        0.06919
         487620.59    3616700.48        0.06509                    487670.59
3616700.48        0.06114
```

```
         487720.59    3616700.48        0.05740                      487770.59
3616700.48        0.05388
         487820.59    3616700.48        0.05062                      487870.59
3616700.48        0.04760
         487920.59    3616700.48        0.04481                      487970.59
3616700.48        0.04262
         488020.59    3616700.48        0.04104                      488070.59
3616700.48        0.03876
         488120.59    3616700.48        0.03667                      488170.59
3616700.48        0.03474
         488220.59    3616700.48        0.03297                      488270.59
3616700.48        0.03133
         488320.59    3616700.48        0.03003                      488370.59
3616700.48        0.02873
         488420.59    3616700.48        0.02742                      488470.59
3616700.48        0.02620
🡅 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE  59
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: HAUL     ***
                                 INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         488520.59    3616700.48        0.02508                      488570.59
3616700.48        0.02402
         488620.59    3616700.48        0.02302                      487470.59
3616750.48        0.09046
         487520.59    3616750.48        0.08446                      487570.59
```

3616750.48 0.07847
487620.59 3616750.48 0.07319 487670.59
3616750.48 0.06817
487720.59 3616750.48 0.06346 487770.59
3616750.48 0.05912
487820.59 3616750.48 0.05516 487870.59
3616750.48 0.05156
487920.59 3616750.48 0.04828 487970.59
3616750.48 0.04532
488020.59 3616750.48 0.04265 488070.59
3616750.48 0.04016
488120.59 3616750.48 0.03788 488170.59
3616750.48 0.03581
488220.59 3616750.48 0.03391 488270.59
3616750.48 0.03216
488320.59 3616750.48 0.03077 488370.59
3616750.48 0.02940
488420.59 3616750.48 0.02802 488470.59
3616750.48 0.02674
488520.59 3616750.48 0.02557 488570.59
3616750.48 0.02446
488620.59 3616750.48 0.02341 487120.59
3616800.48 0.12941
487170.59 3616800.48 0.12670 487220.59
3616800.48 0.12457
487270.59 3616800.48 0.12101 487420.59
3616800.48 0.10807
487470.59 3616800.48 0.10208 487520.59
3616800.48 0.09499
487570.59 3616800.48 0.08791 487620.59
3616800.48 0.08021
487670.59 3616800.48 0.07383 487720.59
3616800.48 0.06815
487770.59 3616800.48 0.06302 487820.59
3616800.48 0.05843
487870.59 3616800.48 0.05431 487920.59
3616800.48 0.05061
487970.59 3616800.48 0.04736 488020.59
3616800.48 0.04447
488070.59 3616800.48 0.04188 488120.59
3616800.48 0.03924
488170.59 3616800.48 0.03699 488220.59
3616800.48 0.03495
488270.59 3616800.48 0.03301 488320.59
3616800.48 0.03163
488370.59 3616800.48 0.03010 488420.59
3616800.48 0.02864
488470.59 3616800.48 0.02729 488520.59
3616800.48 0.02604
488570.59 3616800.48 0.02487 488620.59

3616800.48   0.02381
         486470.59   3616850.48   0.31797   486520.59
3616850.48   0.39298
         487020.59   3616850.48   0.16152   487070.59
3616850.48   0.15362
         487120.59   3616850.48   0.14764   487170.59
3616850.48   0.14327
         487220.59   3616850.48   0.13991   487270.59
3616850.48   0.13697
         487320.59   3616850.48   0.13380   487370.59
3616850.48   0.12953
         487420.59   3616850.48   0.12569   487470.59
3616850.48   0.11714
         487520.59   3616850.48   0.10768   487570.59
3616850.48   0.09826
         487620.59   3616850.48   0.08842   487670.59
3616850.48   0.08014
         487720.59   3616850.48   0.07322   487770.59
3616850.48   0.06713
         487820.59   3616850.48   0.06178   487870.59
3616850.48   0.05707
         487920.59   3616850.48   0.05329   487970.59
3616850.48   0.04962
         488020.59   3616850.48   0.04625   488070.59
3616850.48   0.04325

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                              *** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: HAUL   ***
                                  INCLUDING SOURCE(S):   HAUL0001   , HAUL0002
 , HAUL0003   , HAUL0004   , HAUL0005   ,
                 HAUL0006   , HAUL0007   , HAUL0008   , HAUL0009   , HAUL0010
 , HAUL0011   , HAUL0012   , HAUL0013   ,
                 HAUL0014   , HAUL0015   , HAUL0016   , HAUL0017   , HAUL0018
 , HAUL0019   , HAUL0020   , HAUL0021   ,
                 HAUL0022   , HAUL0023   , HAUL0024   , HAUL0025   , HAUL0026
 , HAUL0027   , HAUL0028   , . . .   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
488120.59	3616850.48	0.04055	488170.59	3616850.48	0.03818
488220.59	3616850.48	0.03614	488270.59	3616850.48	0.03385
488320.59	3616850.48	0.03239	488370.59	3616850.48	0.03073
488420.59	3616850.48	0.02920	488470.59	3616850.48	0.02779
488520.59	3616850.48	0.02648	488570.59	3616850.48	0.02529
488620.59	3616850.48	0.02412	486370.59	3616900.48	0.23262
486420.59	3616900.48	0.30119	486470.59	3616900.48	0.40660
486520.59	3616900.48	0.56556	487070.59	3616900.48	0.17002
487120.59	3616900.48	0.16446	487170.59	3616900.48	0.16286
487220.59	3616900.48	0.16188	487270.59	3616900.48	0.16079
487320.59	3616900.48	0.15642	487370.59	3616900.48	0.15693
487420.59	3616900.48	0.15089	487470.59	3616900.48	0.13930
487520.59	3616900.48	0.12536	487570.59	3616900.48	0.11167
487620.59	3616900.48	0.09817	487670.59	3616900.48	0.08745
487720.59	3616900.48	0.07884	487770.59	3616900.48	0.07152
487820.59	3616900.48	0.06550	487870.59	3616900.48	0.06037
487920.59	3616900.48	0.05566	487970.59	3616900.48	0.05147
488020.59	3616900.48	0.04778	488070.59	3616900.48	0.04453
488120.59	3616900.48	0.04173	488170.59	3616900.48	0.03928
488220.59	3616900.48	0.03704	488270.59	3616900.48	0.03481
488320.59	3616900.48	0.03265	488370.59	3616900.48	0.03128
488420.59	3616900.48	0.02968	488470.59	3616900.48	0.02821
488520.59	3616900.48	0.02685	488570.59	3616900.48	0.02558

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         488620.59    3616900.48        0.02434                      486170.59
3616950.48        0.11541
         486220.59    3616950.48        0.13520                      486370.59
3616950.48        0.25636
         486420.59    3616950.48        0.34779                      486470.59
3616950.48        0.51198
         486520.59    3616950.48        0.85037                      486570.59
3616950.48        1.58842
         486720.59    3616950.48        0.57473                      487020.59
3616950.48        0.19689
         487070.59    3616950.48        0.18978                      487120.59
3616950.48        0.18643
         487170.59    3616950.48        0.18755                      487220.59
3616950.48        0.19007
         487270.59    3616950.48        0.19314                      487320.59
3616950.48        0.19632
         487370.59    3616950.48        0.19863                      487420.59
3616950.48        0.19503
         487470.59    3616950.48        0.17776                      487520.59
3616950.48        0.15226
         487570.59    3616950.48        0.12950                      487620.59
3616950.48        0.10923
         487670.59    3616950.48        0.09564                      487720.59
3616950.48        0.08549
         487770.59    3616950.48        0.07694                      487820.59
3616950.48        0.06943
         487870.59    3616950.48        0.06333                      487920.59
3616950.48        0.05795
         487970.59    3616950.48        0.05339                      488020.59
3616950.48        0.04946
         488070.59    3616950.48        0.04595                      488120.59
3616950.48        0.04287
         488170.59    3616950.48        0.04013                      488220.59
3616950.48        0.03771
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE  61
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: HAUL     ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
```

HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026
, HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
488270.59	3616950.48	0.03554	488320.59	3616950.48	0.03320
488370.59	3616950.48	0.03172	488420.59	3616950.48	0.03010
488470.59	3616950.48	0.02859	488520.59	3616950.48	0.02715
488570.59	3616950.48	0.02578	488620.59	3616950.48	0.02459
486170.59	3617000.48	0.11741	486220.59	3617000.48	0.13792
486270.59	3617000.48	0.16594	486320.59	3617000.48	0.20611
486370.59	3617000.48	0.26783	486420.59	3617000.48	0.37489
486470.59	3617000.48	0.57830	486520.59	3617000.48	1.14398
486570.59	3617000.48	5.65438	486620.59	3617000.48	4.55120
486670.59	3617000.48	1.16627	486720.59	3617000.48	0.63473
486770.59	3617000.48	0.43488	486820.59	3617000.48	0.33585
486970.59	3617000.48	0.22677	487020.59	3617000.48	0.21828
487070.59	3617000.48	0.21475	487120.59	3617000.48	0.21710
487170.59	3617000.48	0.22348	487220.59	3617000.48	0.23428
487270.59	3617000.48	0.24649	487320.59	3617000.48	0.26061
487370.59	3617000.48	0.27692	487420.59	3617000.48	0.29168
487470.59	3617000.48	0.26636	487520.59	3617000.48	0.19744
487570.59	3617000.48	0.14831	487620.59	3617000.48	0.12247
487670.59	3617000.48	0.10596	487720.59		

3617000.48   0.09196
         487770.59   3617000.48   0.08150   487820.59
3617000.48   0.07294
         487870.59   3617000.48   0.06587   487920.59
3617000.48   0.05996
         487970.59   3617000.48   0.05497   488020.59
3617000.48   0.05070
         488070.59   3617000.48   0.04699   488120.59
3617000.48   0.04375
         488170.59   3617000.48   0.04088   488220.59
3617000.48   0.03838
         488270.59   3617000.48   0.03602   488320.59
3617000.48   0.03403
         488370.59   3617000.48   0.03196   488420.59
3617000.48   0.03047
         488470.59   3617000.48   0.02888   488520.59
3617000.48   0.02736
         488570.59   3617000.48   0.02602   488620.59
3617000.48   0.02482
         486170.59   3617050.48   0.11740   486220.59
3617050.48   0.13758
         486270.59   3617050.48   0.16494   486320.59
3617050.48   0.20373
         486370.59   3617050.48   0.26225   486420.59
3617050.48   0.37015
         486470.59   3617050.48   0.55058   486520.59
3617050.48   0.92320
         486570.59   3617050.48   1.86938   486620.59
3617050.48   1.89495
         486670.59   3617050.48   0.98251   486720.59
3617050.48   0.60133
         486770.59   3617050.48   0.43033   486820.59
3617050.48   0.34123
         486870.59   3617050.48   0.29108   486920.59
3617050.48   0.26276
         486970.59   3617050.48   0.24836   487020.59
3617050.48   0.24399
         487070.59   3617050.48   0.25008   487120.59
3617050.48   0.26218
         487170.59   3617050.48   0.28393   487220.59
3617050.48   0.31918
         487270.59   3617050.48   0.36719   487320.59
3617050.48   0.43085

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

```
                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: HAUL     ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                  HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                  HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                  HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         487370.59    3617050.48        0.55036                       487420.59
3617050.48        0.49432
         487470.59    3617050.48        0.44347                       487520.59
3617050.48        0.25605
         487570.59    3617050.48        0.17520                       487620.59
3617050.48        0.13706
         487670.59    3617050.48        0.11359                       487720.59
3617050.48        0.09731
         487770.59    3617050.48        0.08510                       487820.59
3617050.48        0.07557
         487870.59    3617050.48        0.06791                       487920.59
3617050.48        0.06160
         487970.59    3617050.48        0.05631                       488020.59
3617050.48        0.05181
         488070.59    3617050.48        0.04791                       488120.59
3617050.48        0.04448
         488170.59    3617050.48        0.04151                       488220.59
3617050.48        0.03876
         488270.59    3617050.48        0.03624                       488320.59
3617050.48        0.03431
         488370.59    3617050.48        0.03236                       488420.59
3617050.48        0.03059
         488470.59    3617050.48        0.02918                       488520.59
3617050.48        0.02764
         488570.59    3617050.48        0.02624                       488620.59
3617050.48        0.02502
         486220.59    3617100.48        0.13462                       486270.59
3617100.48        0.15981
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         486320.59    3617100.48        0.19444                    486370.59
3617100.48        0.24406
         486420.59    3617100.48        0.31844                    486470.59
3617100.48        0.45238
         486520.59    3617100.48        0.64471                    486570.59
3617100.48        0.86357
         486620.59    3617100.48        1.13755                    486670.59
3617100.48        0.81697
         486720.59    3617100.48        0.55207                    486770.59
3617100.48        0.41669
         486820.59    3617100.48        0.34216                    486870.59
3617100.48        0.30212
         486920.59    3617100.48        0.28201                    486970.59
3617100.48        0.27873
         487020.59    3617100.48        0.28738                    487070.59
3617100.48        0.30894
         487120.59    3617100.48        0.35026                    487170.59
3617100.48        0.43534
         487220.59    3617100.48        0.48664                    487270.59
3617100.48        0.49664
         487320.59    3617100.48        0.41608                    487370.59
3617100.48        0.37950
         487420.59    3617100.48        0.39385                    487470.59
3617100.48        0.48451
         487520.59    3617100.48        0.27875                    487570.59
3617100.48        0.18669
         487620.59    3617100.48        0.14385                    487670.59
3617100.48        0.11794
         487720.59    3617100.48        0.10018                    487770.59
3617100.48        0.08717
         487820.59    3617100.48        0.07711                    487870.59
3617100.48        0.06908
         487920.59    3617100.48        0.06243                    487970.59
3617100.48        0.05690
         488020.59    3617100.48        0.05189                    488070.59
3617100.48        0.04644
         488120.59    3617100.48        0.04304                    488170.59
3617100.48        0.04093
         488220.59    3617100.48        0.03701                    488270.59
3617100.48        0.03482
         488320.59    3617100.48        0.03450                    488370.59
3617100.48        0.03275
         488420.59    3617100.48        0.03088                    488470.59
3617100.48        0.02938
         488520.59    3617100.48        0.02783                    488570.59
3617100.48        0.02642
         488620.59    3617100.48        0.02512                    486270.59
3617150.48        0.15191
         486320.59    3617150.48        0.18115                    486370.59
3617150.48        0.22665
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         486420.59    3617150.48        0.27328                      486470.59
3617150.48        0.34337
↑ *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE  63
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: HAUL     ***
                                 INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         486520.59    3617150.48        0.44500                      486570.59
3617150.48        0.53283
         486620.59    3617150.48        0.63120                      486670.59
3617150.48        0.68697
         486720.59    3617150.48        0.54197                      486770.59
3617150.48        0.41506
         486820.59    3617150.48        0.35170                      486870.59
3617150.48        0.32295
         486920.59    3617150.48        0.31911                      486970.59
3617150.48        0.33718
         487020.59    3617150.48        0.37995                      487070.59
3617150.48        0.48413
         487120.59    3617150.48        0.43236                      487170.59
3617150.48        0.43205
         487220.59    3617150.48        0.35004                      487270.59
3617150.48        0.30908
         487320.59    3617150.48        0.28767                      487370.59
3617150.48        0.29205
         487420.59    3617150.48        0.34232                      487470.59
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3617150.48 0.45693
487520.59 3617150.48 0.27380 487570.59
3617150.48 0.18911
487620.59 3617150.48 0.14234 487670.59
3617150.48 0.11689
487720.59 3617150.48 0.09940 487770.59
3617150.48 0.08480
487820.59 3617150.48 0.07511 487870.59
3617150.48 0.06611
487920.59 3617150.48 0.05880 487970.59
3617150.48 0.05280
488020.59 3617150.48 0.04762 488070.59
3617150.48 0.04308
488120.59 3617150.48 0.04028 488170.59
3617150.48 0.03734
488220.59 3617150.48 0.03459 488270.59
3617150.48 0.03358
488320.59 3617150.48 0.03393 488370.59
3617150.48 0.03234
488420.59 3617150.48 0.03114 488470.59
3617150.48 0.02939
488520.59 3617150.48 0.02804 488570.59
3617150.48 0.02633
488620.59 3617150.48 0.02433 485970.59
3617200.48 0.07029
486020.59 3617200.48 0.07744 486220.59
3617200.48 0.12365
486270.59 3617200.48 0.14258 486320.59
3617200.48 0.16633
486370.59 3617200.48 0.20225 486420.59
3617200.48 0.23689
486470.59 3617200.48 0.28351 486520.59
3617200.48 0.33405
486570.59 3617200.48 0.38054 486620.59
3617200.48 0.44245
486670.59 3617200.48 0.54177 486720.59
3617200.48 0.66828
486770.59 3617200.48 0.43764 486820.59
3617200.48 0.37894
486870.59 3617200.48 0.37024 486920.59
3617200.48 0.40954
486970.59 3617200.48 0.53852 487020.59
3617200.48 0.54187
487070.59 3617200.48 0.41455 487120.59
3617200.48 0.32895
487170.59 3617200.48 0.28652 487220.59
3617200.48 0.25069
487270.59 3617200.48 0.23780 487320.59
3617200.48 0.22365
487370.59 3617200.48 0.24231 487420.59

3617200.48   0.30690
         487470.59   3617200.48   0.42557   487520.59
3617200.48   0.25847
         487570.59   3617200.48   0.17214   487620.59
3617200.48   0.13537
         487670.59   3617200.48   0.11181   487720.59
3617200.48   0.09526
         487770.59   3617200.48   0.08068   487820.59
3617200.48   0.07071
         487870.59   3617200.48   0.06354   487920.59
3617200.48   0.05598

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                              *** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HAUL   ***
                                 INCLUDING SOURCE(S):   HAUL0001   , HAUL0002
 , HAUL0003   , HAUL0004   , HAUL0005   ,
                   HAUL0006   , HAUL0007   , HAUL0008   , HAUL0009   , HAUL0010
 , HAUL0011   , HAUL0012   , HAUL0013   ,
                   HAUL0014   , HAUL0015   , HAUL0016   , HAUL0017   , HAUL0018
 , HAUL0019   , HAUL0020   , HAUL0021   ,
                   HAUL0022   , HAUL0023   , HAUL0024   , HAUL0025   , HAUL0026
 , HAUL0027   , HAUL0028   , . . .   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                    ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

```
         488470.59    3617200.48        0.02950                    488520.59
3617200.48        0.02815
         488570.59    3617200.48        0.02643                    488620.59
3617200.48        0.02354
         485920.59    3617250.48        0.06327                    485970.59
3617250.48        0.06904
         486020.59    3617250.48        0.07575                    486070.59
3617250.48        0.08359
         486170.59    3617250.48        0.10385                    486220.59
3617250.48        0.11701
         486270.59    3617250.48        0.13281                    486320.59
3617250.48        0.15324
         486370.59    3617250.48        0.17849                    486420.59
3617250.48        0.20717
         486470.59    3617250.48        0.23660                    486520.59
3617250.48        0.26351
         486570.59    3617250.48        0.29493                    486620.59
3617250.48        0.33546
         486670.59    3617250.48        0.38512                    486720.59
3617250.48        0.56089
         486770.59    3617250.48        0.52055                    486820.59
3617250.48        0.42941
         486870.59    3617250.48        0.47316                    486920.59
3617250.48        0.51051
         486970.59    3617250.48        0.41661                    487020.59
3617250.48        0.33348
         487070.59    3617250.48        0.28329                    487120.59
3617250.48        0.23668
         487170.59    3617250.48        0.20963                    487220.59
3617250.48        0.19932
         487270.59    3617250.48        0.19886                    487320.59
3617250.48        0.19334
         487370.59    3617250.48        0.21872                    487420.59
3617250.48        0.29573
         487470.59    3617250.48        0.48045                    487520.59
3617250.48        0.25291
         487570.59    3617250.48        0.17261                    487620.59
3617250.48        0.13239
         487670.59    3617250.48        0.10857                    487720.59
3617250.48        0.09112
         487770.59    3617250.48        0.07938                    487820.59
3617250.48        0.06807
         487870.59    3617250.48        0.06031                    487920.59
3617250.48        0.05301
         487970.59    3617250.48        0.04797                    488020.59
3617250.48        0.04418
         488070.59    3617250.48        0.04013                    488120.59
3617250.48        0.03712
         488170.59    3617250.48        0.03428                    488220.59
3617250.48        0.03220
```

```
         488270.59    3617250.48        0.03351                      488320.59
3617250.48        0.03250
         488370.59    3617250.48        0.02998                      488420.59
3617250.48        0.03049
         488470.59    3617250.48        0.02958                      488520.59
3617250.48        0.02656
         488570.59    3617250.48        0.02657                      488620.59
3617250.48        0.02446
         485870.59    3617300.48        0.05742                      485920.59
3617300.48        0.06218
         485970.59    3617300.48        0.06762                      486020.59
3617300.48        0.07385
         486070.59    3617300.48        0.08103                      486120.59
3617300.48        0.08935
         486170.59    3617300.48        0.09902                      486220.59
3617300.48        0.11116
         486270.59    3617300.48        0.12640                      486320.59
3617300.48        0.14183
         486370.59    3617300.48        0.15897                      486420.59
3617300.48        0.17757
🡅 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE  65
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                             *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: HAUL     ***
                                 INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         486470.59    3617300.48        0.19804                      486520.59
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3617300.48 0.36685
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3617300.48 0.55986
486870.59 3617300.48 0.55208 486920.59
3617300.48 0.36991
486970.59 3617300.48 0.28179 487020.59
3617300.48 0.24301
487070.59 3617300.48 0.21969 487120.59
3617300.48 0.19512
487170.59 3617300.48 0.17993 487220.59
3617300.48 0.17613
487270.59 3617300.48 0.18063 487320.59
3617300.48 0.18670
487370.59 3617300.48 0.21193 487420.59
3617300.48 0.29002
487470.59 3617300.48 0.53310 487520.59
3617300.48 0.25250
487570.59 3617300.48 0.17429 487620.59
3617300.48 0.13707
487670.59 3617300.48 0.10746 487720.59
3617300.48 0.09073
487770.59 3617300.48 0.07530 487820.59
3617300.48 0.06552
487870.59 3617300.48 0.05668 487920.59
3617300.48 0.04890
487970.59 3617300.48 0.04493 488020.59
3617300.48 0.04152
488070.59 3617300.48 0.03855 488120.59
3617300.48 0.03594
488170.59 3617300.48 0.03365 488220.59
3617300.48 0.03194
488270.59 3617300.48 0.03238 488320.59
3617300.48 0.03106
488370.59 3617300.48 0.02858 488420.59
3617300.48 0.03012
488470.59 3617300.48 0.02960 488520.59
3617300.48 0.02496
488570.59 3617300.48 0.02533 488620.59
3617300.48 0.02548
485870.59 3617350.48 0.05649 485920.59
3617350.48 0.06099
485970.59 3617350.48 0.06607 486020.59
3617350.48 0.07183
486070.59 3617350.48 0.07836 486120.59
3617350.48 0.08578
486170.59 3617350.48 0.09523 486220.59

3617350.48   0.10628
         486270.59   3617350.48   0.11722   486320.59
3617350.48   0.12956
         486370.59   3617350.48   0.14245   486420.59
3617350.48   0.15760
         486470.59   3617350.48   0.16719   486520.59
3617350.48   0.18227
         486570.59   3617350.48   0.19145   486620.59
3617350.48   0.21664
         486670.59   3617350.48   0.23960   486720.59
3617350.48   0.27054
         486770.59   3617350.48   0.35200   486820.59
3617350.48   0.40920
         486870.59   3617350.48   0.31606   486920.59
3617350.48   0.26171
         486970.59   3617350.48   0.22513   487020.59
3617350.48   0.20560
         487070.59   3617350.48   0.18369   487120.59
3617350.48   0.17891
         487170.59   3617350.48   0.17604   487220.59
3617350.48   0.16958
         487270.59   3617350.48   0.17676   487320.59
3617350.48   0.19205
         487370.59   3617350.48   0.22298   487420.59
3617350.48   0.30543
         487470.59   3617350.48   0.52011   487520.59
3617350.48   0.25118
         487570.59   3617350.48   0.17764   487620.59
3617350.48   0.13940

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                              *** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: HAUL   ***
                                  INCLUDING SOURCE(S):   HAUL0001   , HAUL0002
 , HAUL0003   , HAUL0004   , HAUL0005   ,
                 HAUL0006   , HAUL0007   , HAUL0008   , HAUL0009   , HAUL0010
 , HAUL0011   , HAUL0012   , HAUL0013   ,
                 HAUL0014   , HAUL0015   , HAUL0016   , HAUL0017   , HAUL0018
 , HAUL0019   , HAUL0020   , HAUL0021   ,
                 HAUL0022   , HAUL0023   , HAUL0024   , HAUL0025   , HAUL0026
 , HAUL0027   , HAUL0028   , . . .   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
487670.59	3617350.48	0.10999	487720.59	3617350.48	0.08894
487770.59	3617350.48	0.07370	487820.59	3617350.48	0.06206
487870.59	3617350.48	0.05279	487920.59	3617350.48	0.04767
487970.59	3617350.48	0.04376	488020.59	3617350.48	0.04040
488070.59	3617350.48	0.03749	488120.59	3617350.48	0.03494
488170.59	3617350.48	0.03276	488220.59	3617350.48	0.03217
488270.59	3617350.48	0.03127	488320.59	3617350.48	0.02956
488370.59	3617350.48	0.02897	488420.59	3617350.48	0.02955
488470.59	3617350.48	0.02951	488520.59	3617350.48	0.02774
488570.59	3617350.48	0.02650	488620.59	3617350.48	0.02545
485870.59	3617400.48	0.05549	485920.59	3617400.48	0.05973
485970.59	3617400.48	0.06506	486020.59	3617400.48	0.07006
486070.59	3617400.48	0.07567	486120.59	3617400.48	0.08314
486170.59	3617400.48	0.09161	486220.59	3617400.48	0.10010
486270.59	3617400.48	0.10931	486320.59	3617400.48	0.11912
486370.59	3617400.48	0.12812	486420.59	3617400.48	0.13768
486470.59	3617400.48	0.14631	486520.59	3617400.48	0.15249
486570.59	3617400.48	0.16292	486620.59	3617400.48	0.18147
486670.59	3617400.48	0.19473	486720.59	3617400.48	0.21112
486770.59	3617400.48	0.22670	486820.59	3617400.48	0.23680
486870.59	3617400.48	0.22599	486920.59	3617400.48	0.20733

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         486970.59    3617400.48        0.18463                      487020.59
3617400.48        0.17316
         487070.59    3617400.48        0.16674                      487120.59
3617400.48        0.16145
         487170.59    3617400.48        0.16519                      487220.59
3617400.48        0.16725
         487270.59    3617400.48        0.17807                      487320.59
3617400.48        0.19548
         487370.59    3617400.48        0.23777                      487420.59
3617400.48        0.32080
         487470.59    3617400.48        0.50773                      487520.59
3617400.48        0.25139
         487570.59    3617400.48        0.17766                      487620.59
3617400.48        0.13693
         487670.59    3617400.48        0.11199                      487720.59
3617400.48        0.07976
         487770.59    3617400.48        0.06806                      487820.59
3617400.48        0.06077
         487870.59    3617400.48        0.05468                      487920.59
3617400.48        0.04842
         487970.59    3617400.48        0.04435                      488020.59
3617400.48        0.04087
         488070.59    3617400.48        0.03785                      488120.59
3617400.48        0.03522
         488170.59    3617400.48        0.03294                      488220.59
3617400.48        0.03213
         488270.59    3617400.48        0.02984                      488320.59
3617400.48        0.02792
         488370.59    3617400.48        0.02707                      488420.59
3617400.48        0.03049
         488470.59    3617400.48        0.02935                      488520.59
3617400.48        0.02794
         488570.59    3617400.48        0.02659                      488620.59
3617400.48        0.02524
         485870.59    3617450.48        0.05446                      485920.59
3617450.48        0.05844
         485970.59    3617450.48        0.06283                      486020.59
3617450.48        0.06871
↟ *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE  67
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: HAUL     ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
```

```
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         486070.59    3617450.48        0.07450                     486120.59
3617450.48        0.08073
         486170.59    3617450.48        0.08743                     486220.59
3617450.48        0.09440
         486270.59    3617450.48        0.10231                     486320.59
3617450.48        0.10947
         486370.59    3617450.48        0.11658                     486420.59
3617450.48        0.12463
         486470.59    3617450.48        0.12753                     486520.59
3617450.48        0.13362
         486570.59    3617450.48        0.14601                     486620.59
3617450.48        0.15533
         486670.59    3617450.48        0.15962                     486720.59
3617450.48        0.17087
         486770.59    3617450.48        0.17297                     486820.59
3617450.48        0.18109
         486870.59    3617450.48        0.17682                     486920.59
3617450.48        0.17429
         486970.59    3617450.48        0.16130                     487020.59
3617450.48        0.15658
         487070.59    3617450.48        0.15598                     487120.59
3617450.48        0.15378
         487170.59    3617450.48        0.16029                     487220.59
3617450.48        0.17176
         487270.59    3617450.48        0.19600                     487320.59
3617450.48        0.22015
         487370.59    3617450.48        0.26706                     487420.59
3617450.48        0.35263
         487470.59    3617450.48        0.49241                     487520.59
3617450.48        0.24386
         487570.59    3617450.48        0.16812                     487620.59
3617450.48        0.10627
         487670.59    3617450.48        0.08521                     487720.59
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3617450.48        0.07434
         487770.59    3617450.48        0.06581                     487820.59
3617450.48        0.05779
         487870.59    3617450.48        0.05066                     487920.59
3617450.48        0.04623
         487970.59    3617450.48        0.04318                     488020.59
3617450.48        0.03891
         488070.59    3617450.48        0.03615                     488120.59
3617450.48        0.03447
         488170.59    3617450.48        0.03151                     488220.59
3617450.48        0.03082
         488270.59    3617450.48        0.02891                     488320.59
3617450.48        0.02605
         488370.59    3617450.48        0.02681                     488420.59
3617450.48        0.03103
         488470.59    3617450.48        0.02918                     488520.59
3617450.48        0.02771
         488570.59    3617450.48        0.02636                     488620.59
3617450.48        0.02524
         485870.59    3617500.48        0.05371                     485920.59
3617500.48        0.05714
         485970.59    3617500.48        0.06123                     486020.59
3617500.48        0.06709
         486070.59    3617500.48        0.07217                     486120.59
3617500.48        0.07770
         486170.59    3617500.48        0.08352                     486220.59
3617500.48        0.08993
         486270.59    3617500.48        0.09543                     486320.59
3617500.48        0.10152
         486370.59    3617500.48        0.10334                     486420.59
3617500.48        0.11050
         486470.59    3617500.48        0.11531                     486520.59
3617500.48        0.12027
         486570.59    3617500.48        0.13016                     486620.59
3617500.48        0.13472
         486670.59    3617500.48        0.13802                     486720.59
3617500.48        0.14565
         486770.59    3617500.48        0.14480                     486820.59
3617500.48        0.15044
         486870.59    3617500.48        0.14862                     486920.59
3617500.48        0.15459
         486970.59    3617500.48        0.14968                     487020.59
3617500.48        0.14955
         487070.59    3617500.48        0.14923                     487120.59
3617500.48        0.15814
         487170.59    3617500.48        0.16848                     487220.59
3617500.48        0.18803
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HAUL ***

INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
487270.59	3617500.48	0.22634	487320.59	3617500.48	0.27438
487370.59	3617500.48	0.34964	487420.59	3617500.48	0.43268
487470.59	3617500.48	0.35155	487520.59	3617500.48	0.19244
487570.59	3617500.48	0.11182	487620.59	3617500.48	0.09000
487670.59	3617500.48	0.07917	487720.59	3617500.48	0.06546
487770.59	3617500.48	0.05862	487820.59	3617500.48	0.05296
487870.59	3617500.48	0.04821	487920.59	3617500.48	0.04416
487970.59	3617500.48	0.03989	488020.59	3617500.48	0.03541
488070.59	3617500.48	0.03307	488120.59	3617500.48	0.03084
488170.59	3617500.48	0.02900	488220.59	3617500.48	0.02871
488270.59	3617500.48	0.02736	488320.59	3617500.48	0.02518
488370.59	3617500.48	0.02886	488420.59	3617500.48	0.03072

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         488470.59    3617500.48        0.02898                    488520.59
3617500.48        0.02753
         488570.59    3617500.48        0.02619                    488620.59
3617500.48        0.02509
         485870.59    3617550.48        0.05313                    485920.59
3617550.48        0.05689
         485970.59    3617550.48        0.06095                    486020.59
3617550.48        0.06529
         486070.59    3617550.48        0.06994                    486120.59
3617550.48        0.07490
         486170.59    3617550.48        0.08026                    486220.59
3617550.48        0.08509
         486270.59    3617550.48        0.09006                    486320.59
3617550.48        0.09216
         486370.59    3617550.48        0.09770                    486420.59
3617550.48        0.10188
         486470.59    3617550.48        0.10630                    486520.59
3617550.48        0.11294
         486570.59    3617550.48        0.11645                    486620.59
3617550.48        0.12113
         486670.59    3617550.48        0.12423                    486720.59
3617550.48        0.12435
         486770.59    3617550.48        0.12856                    486820.59
3617550.48        0.13002
         486870.59    3617550.48        0.13302                    486920.59
3617550.48        0.13934
         486970.59    3617550.48        0.14154                    487020.59
3617550.48        0.14533
         487070.59    3617550.48        0.14705                    487120.59
3617550.48        0.15918
         487170.59    3617550.48        0.17398                    487220.59
3617550.48        0.19925
         487270.59    3617550.48        0.28478                    487320.59
3617550.48        0.39685
         487370.59    3617550.48        0.52166                    487420.59
3617550.48        0.23517
         487470.59    3617550.48        0.16079                    487520.59
3617550.48        0.13043
         487570.59    3617550.48        0.09845                    487620.59
3617550.48        0.08103
         487670.59    3617550.48        0.07028                    487720.59
3617550.48        0.06122
         487770.59    3617550.48        0.05526                    487820.59
3617550.48        0.05023
         487870.59    3617550.48        0.04419                    487920.59
3617550.48        0.03937
         487970.59    3617550.48        0.03367                    488020.59
3617550.48        0.03087
         488070.59    3617550.48        0.02916                    488120.59
3617550.48        0.02749
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         488170.59    3617550.48        0.02640                       488220.59
3617550.48        0.02633
         488270.59    3617550.48        0.02669                       488320.59
3617550.48        0.02665
         488370.59    3617550.48        0.03150                       488420.59
3617550.48        0.03047
🡅 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE  69
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: HAUL     ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         488470.59    3617550.48        0.02875                       488520.59
3617550.48        0.02731
         488570.59    3617550.48        0.02599                       488620.59
3617550.48        0.02485
         485870.59    3617600.48        0.05223                       485920.59
3617600.48        0.05587
         485970.59    3617600.48        0.05958                       486020.59
3617600.48        0.06361
         486070.59    3617600.48        0.06788                       486120.59
3617600.48        0.07253
         486170.59    3617600.48        0.07748                       486220.59
3617600.48        0.08108
         486270.59    3617600.48        0.08655                       486320.59
3617600.48        0.08793
         486370.59    3617600.48        0.09127                       486420.59
```

3617600.48 0.09537
486470.59 3617600.48 0.10080 486520.59
3617600.48 0.10312
486570.59 3617600.48 0.10716 486620.59
3617600.48 0.11173
486670.59 3617600.48 0.11555 486720.59
3617600.48 0.11685
486770.59 3617600.48 0.11841 486820.59
3617600.48 0.12108
486870.59 3617600.48 0.12917 486920.59
3617600.48 0.13450
486970.59 3617600.48 0.14037 487020.59
3617600.48 0.14770
487070.59 3617600.48 0.16022 487120.59
3617600.48 0.17818
487170.59 3617600.48 0.19984 487220.59
3617600.48 0.26681
487270.59 3617600.48 0.43388 487320.59
3617600.48 0.59149
487370.59 3617600.48 0.19420 487420.59
3617600.48 0.15293
487470.59 3617600.48 0.12167 487520.59
3617600.48 0.10084
487570.59 3617600.48 0.08772 487620.59
3617600.48 0.07292
487670.59 3617600.48 0.06383 487720.59
3617600.48 0.05694
487770.59 3617600.48 0.05181 487820.59
3617600.48 0.04436
487870.59 3617600.48 0.04046 487920.59
3617600.48 0.03593
487970.59 3617600.48 0.03078 488020.59
3617600.48 0.02701
488070.59 3617600.48 0.02712 488120.59
3617600.48 0.02556
488170.59 3617600.48 0.02565 488220.59
3617600.48 0.02564
488270.59 3617600.48 0.02692 488320.59
3617600.48 0.02970
488370.59 3617600.48 0.03159 488420.59
3617600.48 0.03012
488470.59 3617600.48 0.02849 488520.59
3617600.48 0.02707
488570.59 3617600.48 0.02577 488620.59
3617600.48 0.02460
485870.59 3617650.48 0.05139 485920.59
3617650.48 0.05475
485970.59 3617650.48 0.05829 486020.59
3617650.48 0.06212
486070.59 3617650.48 0.06617 486120.59

```
3617650.48        0.07054
         486170.59    3617650.48        0.07387                       486220.59
3617650.48        0.07863
         486270.59    3617650.48        0.08084                       486320.59
3617650.48        0.08463
         486370.59    3617650.48        0.08861                       486420.59
3617650.48        0.09217
         486470.59    3617650.48        0.09452                       486520.59
3617650.48        0.09750
         486570.59    3617650.48        0.10138                       486620.59
3617650.48        0.10553
         486670.59    3617650.48        0.10996                       486720.59
3617650.48        0.11347
         486770.59    3617650.48        0.11726                       486820.59
3617650.48        0.12220
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE  70
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: HAUL     ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         486870.59    3617650.48        0.12939                       486920.59
3617650.48        0.13799
         486970.59    3617650.48        0.14949                       487020.59
3617650.48        0.16567
         487070.59    3617650.48        0.18817                       487120.59
3617650.48        0.22006
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         487170.59    3617650.48        0.29107                    487220.59
3617650.48        0.47299
         487270.59    3617650.48        0.46385                    487320.59
3617650.48        0.21301
         487370.59    3617650.48        0.14853                    487420.59
3617650.48        0.11277
         487470.59    3617650.48        0.09923                    487520.59
3617650.48        0.08355
         487570.59    3617650.48        0.07089                    487620.59
3617650.48        0.06380
         487670.59    3617650.48        0.05785                    487720.59
3617650.48        0.05201
         487770.59    3617650.48        0.04773                    487820.59
3617650.48        0.04135
         487870.59    3617650.48        0.03772                    487920.59
3617650.48        0.03325
         487970.59    3617650.48        0.03073                    488020.59
3617650.48        0.02845
         488070.59    3617650.48        0.02569                    488120.59
3617650.48        0.02608
         488170.59    3617650.48        0.02697                    488220.59
3617650.48        0.02682
         488270.59    3617650.48        0.02677                    488320.59
3617650.48        0.02600
         488370.59    3617650.48        0.03084                    488420.59
3617650.48        0.02996
         488470.59    3617650.48        0.02821                    488520.59
3617650.48        0.02681
         488570.59    3617650.48        0.02553                    488620.59
3617650.48        0.02449
         485870.59    3617700.48        0.05057                    485920.59
3617700.48        0.05377
         485970.59    3617700.48        0.05718                    486020.59
3617700.48        0.06080
         486070.59    3617700.48        0.06421                    486120.59
3617700.48        0.06781
         486170.59    3617700.48        0.07209                    486220.59
3617700.48        0.07435
         486270.59    3617700.48        0.07779                    486320.59
3617700.48        0.08139
         486370.59    3617700.48        0.08495                    486420.59
3617700.48        0.08800
         486470.59    3617700.48        0.09184                    486520.59
3617700.48        0.09451
         486570.59    3617700.48        0.09824                    486620.59
3617700.48        0.10307
         486670.59    3617700.48        0.10823                    486720.59
3617700.48        0.11286
         486770.59    3617700.48        0.11902                    486820.59
3617700.48        0.12621
```

```
         486870.59    3617700.48        0.13542                      486920.59
3617700.48        0.15017
         486970.59    3617700.48        0.17001                      487020.59
3617700.48        0.19662
         487070.59    3617700.48        0.23601                      487120.59
3617700.48        0.30625
         487170.59    3617700.48        0.53209                      487220.59
3617700.48        0.40197
         487270.59    3617700.48        0.21408                      487320.59
3617700.48        0.15303
         487370.59    3617700.48        0.11914                      487420.59
3617700.48        0.09669
         487470.59    3617700.48        0.07862                      487520.59
3617700.48        0.07091
         487570.59    3617700.48        0.06406                      487620.59
3617700.48        0.05826
         487670.59    3617700.48        0.05333                      487720.59
3617700.48        0.04895
         487770.59    3617700.48        0.04355                      487820.59
3617700.48        0.03985
         487870.59    3617700.48        0.03492                      487920.59
3617700.48        0.03160
         487970.59    3617700.48        0.03062                      488020.59
3617700.48        0.02877
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE  71
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: HAUL     ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
```

Y-COORD (M) CONC

- - - -

```
3617750.48        0.04977
         487670.59    3617750.48        0.04957                        487720.59
3617750.48        0.04544
         487770.59    3617750.48        0.03974                        487820.59
3617750.48        0.03708
         487870.59    3617750.48        0.03457                        487920.59
3617750.48        0.03215
         487970.59    3617750.48        0.03088                        488020.59
3617750.48        0.03006
         488070.59    3617750.48        0.03563                        488120.59
3617750.48        0.03622
         488170.59    3617750.48        0.03403                        488220.59
3617750.48        0.03392
         488270.59    3617750.48        0.03259                        488320.59
3617750.48        0.03158
         488370.59    3617750.48        0.03094                        488420.59
3617750.48        0.02927
         488470.59    3617750.48        0.02759                        488520.59
3617750.48        0.02625
         488570.59    3617750.48        0.02502                        488620.59
3617750.48        0.02389
         485870.59    3617800.48        0.04907                        485920.59
3617800.48        0.05206
         485970.59    3617800.48        0.05458                        486020.59
3617800.48        0.05800
         486070.59    3617800.48        0.06133                        486120.59
3617800.48        0.06350
         486170.59    3617800.48        0.06719                        486220.59
3617800.48        0.07082
         486270.59    3617800.48        0.07476                        486370.59
3617800.48        0.08189
         486420.59    3617800.48        0.08562                        486470.59
3617800.48        0.09085
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE  72
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: HAUL     ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
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, HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
486520.59	3617800.48	0.09627	486570.59	3617800.48	0.10082
486620.59	3617800.48	0.10748	486670.59	3617800.48	0.11588
486720.59	3617800.48	0.12508	486770.59	3617800.48	0.13674
486820.59	3617800.48	0.15387	486870.59	3617800.48	0.17694
486920.59	3617800.48	0.20974	486970.59	3617800.48	0.26158
487020.59	3617800.48	0.35861	487070.59	3617800.48	0.47221
487120.59	3617800.48	0.33541	487170.59	3617800.48	0.20126
487220.59	3617800.48	0.14995	487270.59	3617800.48	0.12200
487320.59	3617800.48	0.09508	487370.59	3617800.48	0.07648
487420.59	3617800.48	0.06909	487470.59	3617800.48	0.05830
487520.59	3617800.48	0.05223	487570.59	3617800.48	0.04833
487620.59	3617800.48	0.04838	487670.59	3617800.48	0.04523
487720.59	3617800.48	0.04163	487770.59	3617800.48	0.03662
487820.59	3617800.48	0.03435	487870.59	3617800.48	0.03436
487920.59	3617800.48	0.03569	487970.59	3617800.48	0.03567
488020.59	3617800.48	0.03855	488070.59	3617800.48	0.04014
488120.59	3617800.48	0.04016	488170.59	3617800.48	0.03833
488220.59	3617800.48	0.03636	488270.59	3617800.48	0.03428
488320.59	3617800.48	0.03219	488370.59	3617800.48	0.03047

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         488420.59    3617800.48        0.02885                      488470.59
3617800.48        0.02726
         488520.59    3617800.48        0.02595                      488570.59
3617800.48        0.02474
         488620.59    3617800.48        0.02364                      485870.59
3617850.48        0.04840
         485920.59    3617850.48        0.05107                      485970.59
3617850.48        0.05393
         486020.59    3617850.48        0.05670                      486070.59
3617850.48        0.05918
         486120.59    3617850.48        0.06274                      486170.59
3617850.48        0.06633
         486220.59    3617850.48        0.07030                      486420.59
3617850.48        0.08675
         486470.59    3617850.48        0.09211                      486520.59
3617850.48        0.09832
         486570.59    3617850.48        0.10562                      486620.59
3617850.48        0.11436
         486670.59    3617850.48        0.12429                      486720.59
3617850.48        0.13708
         486770.59    3617850.48        0.15390                      486820.59
3617850.48        0.17847
         486870.59    3617850.48        0.21549                      486920.59
3617850.48        0.27392
         486970.59    3617850.48        0.39537                      487020.59
3617850.48        0.52228
         487070.59    3617850.48        0.21929                      487120.59
3617850.48        0.13165
         487170.59    3617850.48        0.12305                      487220.59
3617850.48        0.10716
         487270.59    3617850.48        0.09344                      487320.59
3617850.48        0.07990
         487370.59    3617850.48        0.06651                      487420.59
3617850.48        0.05909
         487470.59    3617850.48        0.05520                      487520.59
3617850.48        0.05037
         487570.59    3617850.48        0.04671                      487620.59
3617850.48        0.04523
         487670.59    3617850.48        0.04208                      487720.59
3617850.48        0.03768
         487770.59    3617850.48        0.03536                      487820.59
3617850.48        0.03327
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE  73
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data
```

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HAUL ***

INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
487870.59	3617850.48	0.03624	487920.59	3617850.48	0.03688
487970.59	3617850.48	0.03833	488020.59	3617850.48	0.03903
488070.59	3617850.48	0.04129	488120.59	3617850.48	0.04097
488170.59	3617850.48	0.03838	488220.59	3617850.48	0.03603
488270.59	3617850.48	0.03391	488320.59	3617850.48	0.03207
488370.59	3617850.48	0.03007	488420.59	3617850.48	0.02846
488470.59	3617850.48	0.02691	488520.59	3617850.48	0.02563
488570.59	3617850.48	0.02445	488620.59	3617850.48	0.02338
485870.59	3617900.48	0.04754	485920.59	3617900.48	0.05021
485970.59	3617900.48	0.05340	486020.59	3617900.48	0.05525
486070.59	3617900.48	0.05881	486120.59	3617900.48	0.06221
486170.59	3617900.48	0.06615	486470.59	3617900.48	0.09534
486520.59	3617900.48	0.10343	486570.59	3617900.48	0.11331
486620.59	3617900.48	0.12487	486670.59	3617900.48	0.13734
486720.59	3617900.48	0.15442	486770.59		

3617900.48 0.18009
486820.59 3617900.48 0.21795 486870.59
3617900.48 0.28431
486920.59 3617900.48 0.43624 486970.59
3617900.48 0.50757
487020.59 3617900.48 0.19566 487070.59
3617900.48 0.13598
487120.59 3617900.48 0.10557 487170.59
3617900.48 0.09976
487220.59 3617900.48 0.08205 487270.59
3617900.48 0.08078
487320.59 3617900.48 0.06851 487370.59
3617900.48 0.06015
487420.59 3617900.48 0.05092 487470.59
3617900.48 0.04739
487520.59 3617900.48 0.04420 487570.59
3617900.48 0.04121
487620.59 3617900.48 0.03844 487670.59
3617900.48 0.03578
487720.59 3617900.48 0.03337 487770.59
3617900.48 0.03183
487820.59 3617900.48 0.03262 487870.59
3617900.48 0.03575
487920.59 3617900.48 0.04019 487970.59
3617900.48 0.04200
488020.59 3617900.48 0.04098 488070.59
3617900.48 0.04158
488120.59 3617900.48 0.04003 488170.59
3617900.48 0.03756
488220.59 3617900.48 0.03506 488270.59
3617900.48 0.03297
488320.59 3617900.48 0.03104 488370.59
3617900.48 0.02963
488420.59 3617900.48 0.02805 488470.59
3617900.48 0.02657
488520.59 3617900.48 0.02531 488570.59
3617900.48 0.02416
488620.59 3617900.48 0.02311 485870.59
3617950.48 0.04678
485920.59 3617950.48 0.04975 485970.59
3617950.48 0.05179
486020.59 3617950.48 0.05507 486070.59
3617950.48 0.05831
487077.48 3618005.05 0.08363 487127.48
3618005.05 0.06785
487177.48 3618005.05 0.06206 487227.48
3618005.05 0.05718
487277.48 3618005.05 0.05296 487327.48
3618005.05 0.04745
486470.59 3617950.48 0.10134 486520.59

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                              *** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HAUL   ***
                                  INCLUDING SOURCE(S):   HAUL0001   , HAUL0002
 , HAUL0003   , HAUL0004   , HAUL0005   ,
                   HAUL0006   , HAUL0007   , HAUL0008   , HAUL0009   , HAUL0010
 , HAUL0011   , HAUL0012   , HAUL0013   ,
                   HAUL0014   , HAUL0015   , HAUL0016   , HAUL0017   , HAUL0018
 , HAUL0019   , HAUL0020   , HAUL0021   ,
                   HAUL0022   , HAUL0023   , HAUL0024   , HAUL0025   , HAUL0026
 , HAUL0027   , HAUL0028   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)   CONC
 - - -

```
         487570.59    3617950.48        0.03695                    487620.59
3617950.48        0.03468
         487670.59    3617950.48        0.03238                    487720.59
3617950.48        0.03026
         487770.59    3617950.48        0.03050                    487820.59
3617950.48        0.03064
         487870.59    3617950.48        0.03512                    487920.59
3617950.48        0.04227
         487970.59    3617950.48        0.04285                    488020.59
3617950.48        0.04196
         488070.59    3617950.48        0.04104                    488120.59
3617950.48        0.03928
         488170.59    3617950.48        0.03523                    488220.59
3617950.48        0.03110
         488270.59    3617950.48        0.03095                    488320.59
3617950.48        0.03124
         488370.59    3617950.48        0.02921                    488420.59
3617950.48        0.02764
         488470.59    3617950.48        0.02632                    488520.59
3617950.48        0.02497
         488570.59    3617950.48        0.02385                    488620.59
3617950.48        0.02282
         487840.14    3615798.03        0.02189                    487890.14
3615798.03        0.02136
         487940.14    3615798.03        0.02091                    487990.14
3615798.03        0.02051
         488240.14    3615798.03        0.01795                    488290.14
3615798.03        0.01774
         488340.14    3615798.03        0.01729                    488390.14
3615798.03        0.01685
         488440.14    3615798.03        0.01651                    488490.14
3615798.03        0.01608
         488540.14    3615798.03        0.01567                    488590.14
3615798.03        0.01527
         487940.14    3615848.03        0.02160                    487990.14
3615848.03        0.02111
         488040.14    3615848.03        0.02063                    488190.14
3615848.03        0.01898
         488240.14    3615848.03        0.01873                    488290.14
3615848.03        0.01828
         488340.14    3615848.03        0.01779                    488390.14
3615848.03        0.01736
         488440.14    3615848.03        0.01696                    488490.14
3615848.03        0.01651
         488540.14    3615848.03        0.01608                    488590.14
3615848.03        0.01566
         487740.14    3615898.03        0.02497                    487990.14
3615898.03        0.02182
         488040.14    3615898.03        0.02125                    488090.14
3615898.03        0.02087
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         488140.14    3615898.03        0.02031                      488190.14
3615898.03        0.01976
         488240.14    3615898.03        0.01928                      488290.14
3615898.03        0.01883
         488340.14    3615898.03        0.01832                      488390.14
3615898.03        0.01788
         488440.14    3615898.03        0.01743                      488490.14
3615898.03        0.01696
         488540.14    3615898.03        0.01650                      488590.14
3615898.03        0.01606
🡅 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE  75
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: HAUL     ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         487690.14    3615948.03        0.02661                      487740.14
3615948.03        0.02623
         487790.14    3615948.03        0.02553                      488090.14
3615948.03        0.02159
         488140.14    3615948.03        0.02099                      488190.14
3615948.03        0.02042
         488240.14    3615948.03        0.02010                      488290.14
3615948.03        0.01952
         488340.14    3615948.03        0.01893                      488390.14
3615948.03        0.01843
         488440.14    3615948.03        0.01791                      488490.14
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3615948.03 0.01741
488540.14 3615948.03 0.01693 488590.14
3615948.03 0.01646
487690.14 3615998.03 0.02779 487740.14
3615998.03 0.02703
487790.14 3615998.03 0.02639 487840.14
3615998.03 0.02596
487890.14 3615998.03 0.02497 488090.14
3615998.03 0.02235
488140.14 3615998.03 0.02171 488190.14
3615998.03 0.02144
488240.14 3615998.03 0.02088 488290.14
3615998.03 0.02021
488340.14 3615998.03 0.01953 488390.14
3615998.03 0.01896
488440.14 3615998.03 0.01842 488490.14
3615998.03 0.01789
488540.14 3615998.03 0.01738 488590.14
3615998.03 0.01689
487540.14 3616048.03 0.03163 487790.14
3616048.03 0.02743
487840.14 3616048.03 0.02665 487890.14
3616048.03 0.02622
487940.14 3616048.03 0.02527 488090.14
3616048.03 0.02318
488140.14 3616048.03 0.02273 488190.14
3616048.03 0.02221
488240.14 3616048.03 0.02157 488290.14
3616048.03 0.02085
488340.14 3616048.03 0.02012 488390.14
3616048.03 0.01952
488440.14 3616048.03 0.01894 488490.14
3616048.03 0.01838
488540.14 3616048.03 0.01784 488590.14
3616048.03 0.01732
487540.14 3616098.03 0.03324 487590.14
3616098.03 0.03299
487640.14 3616098.03 0.03175 487890.14
3616098.03 0.02693
487940.14 3616098.03 0.02629 487990.14
3616098.03 0.02573
488040.14 3616098.03 0.02453 488090.14
3616098.03 0.02423
488140.14 3616098.03 0.02367 488190.14
3616098.03 0.02298
488240.14 3616098.03 0.02225 488290.14
3616098.03 0.02151
488340.14 3616098.03 0.02074 488390.14
3616098.03 0.02009
488440.14 3616098.03 0.01948 488490.14

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3616098.03        0.01888
         488540.14    3616098.03        0.01835                      488590.14
3616098.03        0.01785
         487540.14    3616148.03        0.03495                      487590.14
3616148.03        0.03404
         487640.14    3616148.03        0.03354                      487690.14
3616148.03        0.03233
         487940.14    3616148.03        0.02717                      487990.14
3616148.03        0.02645
         488040.14    3616148.03        0.02592                      488090.14
3616148.03        0.02521
         488140.14    3616148.03        0.02451                      488190.14
3616148.03        0.02377
         488240.14    3616148.03        0.02299                      488290.14
3616148.03        0.02219
         488340.14    3616148.03        0.02137                      488390.14
3616148.03        0.02069
         488440.14    3616148.03        0.02003                      488490.14
3616148.03        0.01945
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE  76
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: HAUL     ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         488540.14    3616148.03        0.01889                      488590.14
3616148.03        0.01830
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         487590.14    3616198.03        0.03567                    487640.14
3616198.03        0.03455
         487690.14    3616198.03        0.03389                    487740.14
3616198.03        0.03307
         487990.14    3616198.03        0.02758                    488040.14
3616198.03        0.02705
         488090.14    3616198.03        0.02615                    488140.14
3616198.03        0.02540
         488190.14    3616198.03        0.02459                    488240.14
3616198.03        0.02376
         488290.14    3616198.03        0.02291                    488340.14
3616198.03        0.02203
         488390.14    3616198.03        0.02130                    488440.14
3616198.03        0.02065
         488490.14    3616198.03        0.02003                    488540.14
3616198.03        0.01939
         488590.14    3616198.03        0.01877                    487690.14
3616248.03        0.03515
         487740.14    3616248.03        0.03447                    487790.14
3616248.03        0.03361
         487840.14    3616248.03        0.03171                    487940.14
3616248.03        0.02975
         487990.14    3616248.03        0.02918                    488040.14
3616248.03        0.02815
         488090.14    3616248.03        0.02715                    488140.14
3616248.03        0.02633
         488190.14    3616248.03        0.02546                    488240.14
3616248.03        0.02456
         488290.14    3616248.03        0.02365                    488340.14
3616248.03        0.02271
         488390.14    3616248.03        0.02193                    488440.14
3616248.03        0.02130
         488490.14    3616248.03        0.02058                    488540.14
3616248.03        0.01989
         488590.14    3616248.03        0.01924                    487690.14
3616298.03        0.03701
         487740.14    3616298.03        0.03652                    487790.14
3616298.03        0.03536
         487840.14    3616298.03        0.03398                    487890.14
3616298.03        0.03208
         487940.14    3616298.03        0.03144                    487990.14
3616298.03        0.03040
         488040.14    3616298.03        0.02927                    488090.14
3616298.03        0.02819
         488140.14    3616298.03        0.02730                    488190.14
3616298.03        0.02636
         488240.14    3616298.03        0.02539                    488290.14
3616298.03        0.02441
         488340.14    3616298.03        0.02340                    488390.14
3616298.03        0.02268
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         488440.14    3616298.03        0.02189                      488490.14
3616298.03        0.02113
         488540.14    3616298.03        0.02041                      488590.14
3616298.03        0.01972
         487690.14    3616348.03        0.03998                      487740.14
3616348.03        0.03863
         487790.14    3616348.03        0.03715                      487840.14
3616348.03        0.03572
         487890.14    3616348.03        0.03433                      487940.14
3616348.03        0.03298
         487990.14    3616348.03        0.03170                      488040.14
3616348.03        0.03046
         488090.14    3616348.03        0.02927                      488140.14
3616348.03        0.02830
         488190.14    3616348.03        0.02729                      488240.14
3616348.03        0.02624
         488290.14    3616348.03        0.02519                      488340.14
3616348.03        0.02425
         488390.14    3616348.03        0.02335                      488440.14
3616348.03        0.02250
         488490.14    3616348.03        0.02169                      488540.14
3616348.03        0.02092
         488590.14    3616348.03        0.02019                      487640.14
3616398.03        0.04396
         487690.14    3616398.03        0.04245                      487740.14
3616398.03        0.04075
         487790.14    3616398.03        0.03909                      487840.14
3616398.03        0.03750
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE  77
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: HAUL     ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
487890.14	3616398.03	0.03595	487940.14	3616398.03	0.03447
487990.14	3616398.03	0.03305	488040.14	3616398.03	0.03170
488090.14	3616398.03	0.03040	488140.14	3616398.03	0.02935
488190.14	3616398.03	0.02824	488240.14	3616398.03	0.02711
488290.14	3616398.03	0.02598	488340.14	3616398.03	0.02497
488390.14	3616398.03	0.02401	488440.14	3616398.03	0.02311
488490.14	3616398.03	0.02225	488540.14	3616398.03	0.02144
488590.14	3616398.03	0.02067	487590.14	3616448.03	0.04817
487640.14	3616448.03	0.04686	487690.14	3616448.03	0.04496
487740.14	3616448.03	0.04304	487790.14	3616448.03	0.04119
487840.14	3616448.03	0.03940	487890.14	3616448.03	0.03769
487940.14	3616448.03	0.03604	487990.14	3616448.03	0.03448
488040.14	3616448.03	0.03299	488090.14	3616448.03	0.03157
488140.14	3616448.03	0.03042	488190.14	3616448.03	0.02922
488240.14	3616448.03	0.02808	488290.14	3616448.03	0.02686
488340.14	3616448.03	0.02578	488390.14	3616448.03	0.02468
488440.14	3616448.03	0.02372	488490.14	3616448.03	0.02282
488540.14	3616448.03	0.02196	488590.14	3616448.03	0.02122
487540.14	3616498.03	0.05270	487590.14	3616498.03	0.05140
487640.14	3616498.03	0.04994	487690.14	3616498.03	0.04771
487740.14	3616498.03	0.04554	487790.14	3616498.03	0.04345
487840.14	3616498.03	0.04144	487890.14		

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3616498.03        0.03952
         487940.14    3616498.03        0.03769                        487990.14
3616498.03        0.03596
         488040.14    3616498.03        0.03432                        488090.14
3616498.03        0.03286
         488140.14    3616498.03        0.03152                        488190.14
3616498.03        0.03027
         488240.14    3616498.03        0.02893                        488290.14
3616498.03        0.02766
         488340.14    3616498.03        0.02654                        488390.14
3616498.03        0.02545
         488440.14    3616498.03        0.02438                        488490.14
3616498.03        0.02346
         488540.14    3616498.03        0.02257                        488590.14
3616498.03        0.02172
         484613.02    3614429.89        0.00748                        484663.02
3614429.89        0.00760
         484713.02    3614429.89        0.00772                        484763.02
3614429.89        0.00784
         484813.02    3614429.89        0.00796                        484863.02
3614429.89        0.00808
         484913.02    3614429.89        0.00813                        484963.02
3614429.89        0.00823
         484563.02    3614479.89        0.00750                        484613.02
3614479.89        0.00762
         484663.02    3614479.89        0.00773                        484713.02
3614479.89        0.00785
         484763.02    3614479.89        0.00797                        484813.02
3614479.89        0.00810
         484863.02    3614479.89        0.00822                        484913.02
3614479.89        0.00830
         484963.02    3614479.89        0.00838                        484513.02
3614529.89        0.00751
         484563.02    3614529.89        0.00763                        484613.02
3614529.89        0.00774
         484663.02    3614529.89        0.00787                        484713.02
3614529.89        0.00799
🡅 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE  78
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: HAUL     ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
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 , HAUL0011    , HAUL0012    , HAUL0013    ,
                HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         484763.02    3614529.89        0.00812                       484813.02
3614529.89        0.00824
         484863.02    3614529.89        0.00837                       484913.02
3614529.89        0.00845
         484963.02    3614529.89        0.00854                       484463.02
3614579.89        0.00751
         484513.02    3614579.89        0.00763                       484563.02
3614579.89        0.00775
         484613.02    3614579.89        0.00788                       484663.02
3614579.89        0.00800
         484713.02    3614579.89        0.00813                       484763.02
3614579.89        0.00826
         484813.02    3614579.89        0.00839                       484863.02
3614579.89        0.00853
         484913.02    3614579.89        0.00863                       484963.02
3614579.89        0.00871
         484413.02    3614629.89        0.00751                       484463.02
3614629.89        0.00764
         484513.02    3614629.89        0.00776                       484563.02
3614629.89        0.00788
         484613.02    3614629.89        0.00801                       484663.02
3614629.89        0.00814
         484713.02    3614629.89        0.00827                       484763.02
3614629.89        0.00841
         484813.02    3614629.89        0.00855                       484863.02
3614629.89        0.00869
         484913.02    3614629.89        0.00882                       484963.02
3614629.89        0.00888
         484413.02    3614679.89        0.00763                       484463.02
3614679.89        0.00776
         484513.02    3614679.89        0.00789                       484563.02
3614679.89        0.00802
         484613.02    3614679.89        0.00815                       484663.02
3614679.89        0.00828
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         484713.02    3614679.89        0.00842                      484763.02
3614679.89        0.00856
         484813.02    3614679.89        0.00870                      484863.02
3614679.89        0.00885
         484913.02    3614679.89        0.00900                      484963.02
3614679.89        0.00911
         484363.02    3614729.89        0.00763                      484413.02
3614729.89        0.00776
         484463.02    3614729.89        0.00789                      484513.02
3614729.89        0.00802
         484563.02    3614729.89        0.00815                      484613.02
3614729.89        0.00829
         484663.02    3614729.89        0.00843                      484713.02
3614729.89        0.00857
         484763.02    3614729.89        0.00872                      484813.02
3614729.89        0.00886
         484863.02    3614729.89        0.00902                      484913.02
3614729.89        0.00917
         484963.02    3614729.89        0.00929                      484313.02
3614779.89        0.00763
         484363.02    3614779.89        0.00775                      484413.02
3614779.89        0.00788
         484463.02    3614779.89        0.00802                      484513.02
3614779.89        0.00815
         484563.02    3614779.89        0.00829                      484613.02
3614779.89        0.00843
         484663.02    3614779.89        0.00858                      484713.02
3614779.89        0.00873
         484763.02    3614779.89        0.00888                      484813.02
3614779.89        0.00903
         484863.02    3614779.89        0.00919                      484913.02
3614779.89        0.00935
         484963.02    3614779.89        0.00947                      484263.02
3614829.89        0.00762
         484313.02    3614829.89        0.00775                      484363.02
3614829.89        0.00788
         484413.02    3614829.89        0.00801                      484463.02
3614829.89        0.00815
         484513.02    3614829.89        0.00829                      484563.02
3614829.89        0.00843
         484613.02    3614829.89        0.00858                      484663.02
3614829.89        0.00873
         484713.02    3614829.89        0.00888                      484763.02
3614829.89        0.00904
         484813.02    3614829.89        0.00920                      484863.02
3614829.89        0.00936
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***       11:59:01
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HAUL ***

INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484913.02	3614829.89	0.00953	484963.02	3614829.89	0.00960
484213.02	3614879.89	0.00761	484263.02	3614879.89	0.00774
484313.02	3614879.89	0.00787	484363.02	3614879.89	0.00800
484413.02	3614879.89	0.00814	484463.02	3614879.89	0.00829
484513.02	3614879.89	0.00843	484563.02	3614879.89	0.00858
484613.02	3614879.89	0.00873	484663.02	3614879.89	0.00889
484713.02	3614879.89	0.00905	484763.02	3614879.89	0.00921
484813.02	3614879.89	0.00937	484863.02	3614879.89	0.00954
484913.02	3614879.89	0.00971	484963.02	3614879.89	0.00985
484163.02	3614929.89	0.00758	484213.02	3614929.89	0.00772
484263.02	3614929.89	0.00786	484313.02	3614929.89	0.00799
484363.02	3614929.89	0.00813	484413.02	3614929.89	0.00828
484463.02	3614929.89	0.00842	484513.02		

3614929.89 0.00857
484563.02 3614929.89 0.00873 484613.02
3614929.89 0.00889
484663.02 3614929.89 0.00905 484713.02
3614929.89 0.00921
484763.02 3614929.89 0.00938 484813.02
3614929.89 0.00955
484863.02 3614929.89 0.00973 484913.02
3614929.89 0.00991
484963.02 3614929.89 0.01009 485013.02
3614929.89 0.01018
484113.02 3614979.89 0.00757 484163.02
3614979.89 0.00770
484213.02 3614979.89 0.00784 484263.02
3614979.89 0.00798
484313.02 3614979.89 0.00812 484363.02
3614979.89 0.00826
484413.02 3614979.89 0.00841 484463.02
3614979.89 0.00856
484513.02 3614979.89 0.00872 484563.02
3614979.89 0.00888
484613.02 3614979.89 0.00904 484663.02
3614979.89 0.00921
484713.02 3614979.89 0.00938 484763.02
3614979.89 0.00955
484813.02 3614979.89 0.00973 484863.02
3614979.89 0.00992
484913.02 3614979.89 0.01010 484963.02
3614979.89 0.01029
485013.02 3614979.89 0.01039 484113.02
3615029.89 0.00768
484163.02 3615029.89 0.00782 484213.02
3615029.89 0.00796
484263.02 3615029.89 0.00810 484313.02
3615029.89 0.00825
484363.02 3615029.89 0.00840 484413.02
3615029.89 0.00855
484463.02 3615029.89 0.00871 484513.02
3615029.89 0.00887
484563.02 3615029.89 0.00903 484613.02
3615029.89 0.00920
484663.02 3615029.89 0.00938 484713.02
3615029.89 0.00955
484763.02 3615029.89 0.00973 484813.02
3615029.89 0.00992
484863.02 3615029.89 0.01011 484913.02
3615029.89 0.01030
484963.02 3615029.89 0.01050 485013.02
3615029.89 0.01069
485063.02 3615029.89 0.01081 484113.02

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: HAUL ***
INCLUDING SOURCE(S): HAUL0001 , HAUL0002
, HAUL0003 , HAUL0004 , HAUL0005 ,
HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010
, HAUL0011 , HAUL0012 , HAUL0013 ,
HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018
, HAUL0019 , HAUL0020 , HAUL0021 ,
HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026
, HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484363.02	3615079.89	0.00853	484413.02	3615079.89	0.00869
484463.02	3615079.89	0.00886	484513.02	3615079.89	0.00902
484563.02	3615079.89	0.00919	484613.02	3615079.89	0.00937
484663.02	3615079.89	0.00955	484713.02	3615079.89	0.00973
484763.02	3615079.89	0.00992	484813.02	3615079.89	0.01011
484863.02	3615079.89	0.01031	484913.02	3615079.89	0.01051
484963.02	3615079.89	0.01072	485013.02	3615079.89	0.01093
485063.02	3615079.89	0.01113	485113.02	3615079.89	0.01125

```
         484113.02    3615129.89        0.00790                    484163.02
3615129.89        0.00805
         484213.02    3615129.89        0.00820                    484263.02
3615129.89        0.00835
         484313.02    3615129.89        0.00851                    484363.02
3615129.89        0.00867
         484413.02    3615129.89        0.00884                    484463.02
3615129.89        0.00900
         484513.02    3615129.89        0.00918                    484563.02
3615129.89        0.00935
         484613.02    3615129.89        0.00953                    484663.02
3615129.89        0.00972
         484713.02    3615129.89        0.00991                    484763.02
3615129.89        0.01011
         484813.02    3615129.89        0.01031                    484863.02
3615129.89        0.01051
         484913.02    3615129.89        0.01072                    484963.02
3615129.89        0.01094
         485013.02    3615129.89        0.01116                    485063.02
3615129.89        0.01139
         485113.02    3615129.89        0.01161                    485163.02
3615129.89        0.01173
         484113.02    3615179.89        0.00801                    484163.02
3615179.89        0.00817
         484213.02    3615179.89        0.00832                    484263.02
3615179.89        0.00848
         484313.02    3615179.89        0.00864                    484363.02
3615179.89        0.00881
         484413.02    3615179.89        0.00898                    484463.02
3615179.89        0.00916
         484513.02    3615179.89        0.00933                    484563.02
3615179.89        0.00952
         484613.02    3615179.89        0.00971                    484663.02
3615179.89        0.00990
         484713.02    3615179.89        0.01010                    484763.02
3615179.89        0.01030
         484813.02    3615179.89        0.01051                    484863.02
3615179.89        0.01072
         484913.02    3615179.89        0.01094                    484963.02
3615179.89        0.01117
         485013.02    3615179.89        0.01140                    485063.02
3615179.89        0.01163
         485113.02    3615179.89        0.01187                    485163.02
3615179.89        0.01211
         485213.02    3615179.89        0.01233                    484113.02
3615229.89        0.00813
         484163.02    3615229.89        0.00828                    484213.02
3615229.89        0.00844
         484263.02    3615229.89        0.00861                    484313.02
3615229.89        0.00877
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         484363.02    3615229.89        0.00892                      484413.02
3615229.89        0.00909
         484463.02    3615229.89        0.00928                      484513.02
3615229.89        0.00946
         484563.02    3615229.89        0.00965                      484613.02
3615229.89        0.00985
         484663.02    3615229.89        0.01005                      484713.02
3615229.89        0.01028
         484763.02    3615229.89        0.01049                      484813.02
3615229.89        0.01071
         484863.02    3615229.89        0.01094                      484913.02
3615229.89        0.01116
         484963.02    3615229.89        0.01140                      485013.02
3615229.89        0.01164
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE  81
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: HAUL     ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         485063.02    3615229.89        0.01189                      485113.02
3615229.89        0.01214
         485163.02    3615229.89        0.01240                      485213.02
3615229.89        0.01266
         485263.02    3615229.89        0.01289                      484113.02
3615279.89        0.00824
         484163.02    3615279.89        0.00840                      484213.02
```

3615279.89 0.00855
484263.02 3615279.89 0.00867 484313.02
3615279.89 0.00883
484613.02 3615279.89 0.00998 484663.02
3615279.89 0.01024
484713.02 3615279.89 0.01045 484763.02
3615279.89 0.01068
484813.02 3615279.89 0.01092 484863.02
3615279.89 0.01116
484913.02 3615279.89 0.01139 484963.02
3615279.89 0.01164
485013.02 3615279.89 0.01189 485063.02
3615279.89 0.01215
485113.02 3615279.89 0.01241 485163.02
3615279.89 0.01268
485213.02 3615279.89 0.01296 485263.02
3615279.89 0.01325
485313.02 3615279.89 0.01349 484113.02
3615329.89 0.00834
484163.02 3615329.89 0.00847 484213.02
3615329.89 0.00859
484663.02 3615329.89 0.01037 484713.02
3615329.89 0.01064
484763.02 3615329.89 0.01087 484813.02
3615329.89 0.01114
484863.02 3615329.89 0.01138 484913.02
3615329.89 0.01163
484963.02 3615329.89 0.01188 485013.02
3615329.89 0.01215
485063.02 3615329.89 0.01242 485113.02
3615329.89 0.01269
485163.02 3615329.89 0.01298 485213.02
3615329.89 0.01327
485263.02 3615329.89 0.01357 485313.02
3615329.89 0.01388
485363.02 3615329.89 0.01417 484113.02
3615379.89 0.00839
484163.02 3615379.89 0.00854 484713.02
3615379.89 0.01079
484763.02 3615379.89 0.01108 484813.02
3615379.89 0.01133
484863.02 3615379.89 0.01161 484913.02
3615379.89 0.01187
484963.02 3615379.89 0.01214 485013.02
3615379.89 0.01241
485063.02 3615379.89 0.01269 485113.02
3615379.89 0.01298
485163.02 3615379.89 0.01328 485213.02
3615379.89 0.01359
485263.02 3615379.89 0.01390 485313.02

```
3615379.89        0.01422
         485363.02    3615379.89        0.01455                       485413.02
3615379.89        0.01489
         484763.02    3615429.89        0.01124                       484813.02
3615429.89        0.01155
         484863.02    3615429.89        0.01182                       484913.02
3615429.89        0.01212
         484963.02    3615429.89        0.01239                       485013.02
3615429.89        0.01268
         485063.02    3615429.89        0.01297                       485113.02
3615429.89        0.01328
         485163.02    3615429.89        0.01359                       485213.02
3615429.89        0.01391
         485263.02    3615429.89        0.01424                       485313.02
3615429.89        0.01458
         485363.02    3615429.89        0.01493                       485413.02
3615429.89        0.01529
         485463.02    3615429.89        0.01565                       485513.02
3615429.89        0.01591
         484813.02    3615479.89        0.01171                       484863.02
3615479.89        0.01203
         484913.02    3615479.89        0.01236                       484963.02
3615479.89        0.01266
🡅 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE  82
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: HAUL     ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
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         485013.02    3615679.89        0.01395                       485063.02
3615679.89        0.01443
         485113.02    3615679.89        0.01485                       485163.02
3615679.89        0.01524
         485213.02    3615679.89        0.01567                       485263.02
3615679.89        0.01613
         485313.02    3615679.89        0.01657                       485363.02
3615679.89        0.01699
         485413.02    3615679.89        0.01741                       485063.02
3615729.89        0.01465
         485113.02    3615729.89        0.01509                       485163.02
3615729.89        0.01560
         485213.02    3615729.89        0.01604                       485263.02
3615729.89        0.01650
         485313.02    3615729.89        0.01697                       485363.02
3615729.89        0.01728
         485113.02    3615779.89        0.01539                       485163.02
3615779.89        0.01587
         485213.02    3615779.89        0.01640                       485263.02
3615779.89        0.01688
         485313.02    3615779.89        0.01723                       485163.02
3615829.89        0.01620
         485213.02    3615829.89        0.01668                       485263.02
3615829.89        0.01717
         485213.02    3615879.89        0.01709                       485552.29
3616096.26        0.02412
         486018.22    3615677.92        0.02378                       486003.19
3616494.55        0.05148
         486759.70    3615938.44        0.03633                       486118.42
3616108.78        0.03791
         486519.22    3615657.88        0.02662                       487082.35
3618053.22        0.06497
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE  83
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: HAUL     ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
487132.24	3618053.22	0.05786	487182.13	3618053.22	0.05307
487232.02	3618053.22	0.04565	487281.91	3618053.22	0.04282
486424.80	3617998.65	0.09959	486474.69	3617998.65	0.11079
486524.58	3617998.65	0.12492	486574.47	3617998.65	0.14249
486624.36	3617998.65	0.16228	486674.25	3617998.65	0.19034
486724.14	3617998.65	0.23268	486774.03	3617998.65	0.31230
486823.92	3617998.65	0.41370	486873.81	3617998.65	0.31776
486923.70	3617998.65	0.16577	486973.59	3617998.65	0.12678
487023.48	3617998.65	0.10313	487082.35	3618103.22	0.05318
487132.24	3618103.22	0.04361	487182.13	3618103.22	0.04102
486374.91	3618048.65	0.09722	486424.80	3618048.65	0.10902
486474.69	3618048.65	0.12436	486524.58	3618048.65	0.14426
486574.47	3618048.65	0.16731	486624.36	3618048.65	0.19831
486674.25	3618048.65	0.24616	486724.14	3618048.65	0.33961
486774.03	3618048.65	0.43980	486823.92	3618048.65	0.29229
486873.81	3618048.65	0.19384	486923.70	3618048.65	0.13261
486973.59	3618048.65	0.09626	487023.48	3618048.65	0.08397
487082.35	3618153.22	0.04164	487132.24	3618153.22	0.03665
486325.02	3618098.65	0.09468	486374.91	3618098.65	0.10718
486424.80	3618098.65	0.12332	486474.69		

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3618098.65        0.14491
         486524.58    3618098.65        0.17070                    486574.47
3618098.65        0.20444
         486624.36    3618098.65        0.25762                    486674.25
3618098.65        0.37235
         486724.14    3618098.65        0.54020                    486774.03
3618098.65        0.31620
         486823.92    3618098.65        0.18610                    486873.81
3618098.65        0.13504
         486923.70    3618098.65        0.11221                    486973.59
3618098.65        0.08557
         487023.48    3618098.65        0.06874                    487082.35
3618203.22        0.03698
         486275.13    3618148.65        0.09200                    486325.02
3618148.65        0.10475
         486374.91    3618148.65        0.12218                    486424.80
3618148.65        0.14531
         486474.69    3618148.65        0.17336                    486524.58
3618148.65        0.21042
         486574.47    3618148.65        0.27172                    486624.36
3618148.65        0.41678
         486674.25    3618148.65        0.55433                    486724.14
3618148.65        0.32017
         486774.03    3618148.65        0.22674                    486823.92
3618148.65        0.15538
         486873.81    3618148.65        0.12379                    486923.70
3618148.65        0.09664
         486973.59    3618148.65        0.07655                    487023.48
3618148.65        0.06279
         486225.24    3618198.65        0.08705                    486275.13
3618198.65        0.10089
         486325.02    3618198.65        0.12131                    486374.91
3618198.65        0.14550
         486424.80    3618198.65        0.17411                    486474.69
3618198.65        0.21557
         486524.58    3618198.65        0.28523                    486574.47
3618198.65        0.47199
         486624.36    3618198.65        0.47517                    486674.25
3618198.65        0.29295
         486724.14    3618198.65        0.22843                    486774.03
3618198.65        0.17799
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE  84
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                             *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
```

VALUES FOR SOURCE GROUP: HAUL ***
INCLUDING SOURCE(S): HAUL0001 , HAUL0002
, HAUL0003 , HAUL0004 , HAUL0005 ,
HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010
, HAUL0011 , HAUL0012 , HAUL0013 ,
HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018
, HAUL0019 , HAUL0020 , HAUL0021 ,
HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026
, HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
486823.92	3618198.65	0.13744	486873.81	3618198.65	0.10662
486923.70	3618198.65	0.09009	486973.59	3618198.65	0.07625
487023.48	3618198.65	0.05767	486175.35	3618248.65	0.08140
486225.24	3618248.65	0.09583	486275.13	3618248.65	0.11738
486325.02	3618248.65	0.14309	486374.91	3618248.65	0.17425
486424.80	3618248.65	0.21838	486474.69	3618248.65	0.30046
486524.58	3618248.65	0.56020	486574.47	3618248.65	0.42020
486624.36	3618248.65	0.27686	486674.25	3618248.65	0.21264
486724.14	3618248.65	0.17370	486774.03	3618248.65	0.14650
486823.92	3618248.65	0.11726	486873.81	3618248.65	0.09911
486923.70	3618248.65	0.08554	486973.59	3618248.65	0.07480
487023.48	3618248.65	0.05897	486125.46	3618298.65	0.07295
486175.35	3618298.65	0.08712	486225.24	3618298.65	0.10906
486275.13	3618298.65	0.13815	486325.02	3618298.65	0.17233
486374.91	3618298.65	0.22179	486424.80	3618298.65	0.31786

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         486474.69    3618298.65        0.45137                    486524.58
3618298.65        0.37663
         486574.47    3618298.65        0.26150                    486624.36
3618298.65        0.20498
         486674.25    3618298.65        0.17009                    486724.14
3618298.65        0.14232
         486774.03    3618298.65        0.12343                    486823.92
3618298.65        0.10422
         486873.81    3618298.65        0.08759                    486923.70
3618298.65        0.07704
         486125.46    3618348.65        0.07570                    486175.35
3618348.65        0.09369
         486225.24    3618348.65        0.12820                    486275.13
3618348.65        0.16682
         486325.02    3618348.65        0.22296                    486374.91
3618348.65        0.33787
         486424.80    3618348.65        0.44917                    486474.69
3618348.65        0.33944
         486524.58    3618348.65        0.24312                    486574.47
3618348.65        0.19429
         486624.36    3618348.65        0.16375                    486674.25
3618348.65        0.13910
         486724.14    3618348.65        0.12096                    486774.03
3618348.65        0.10660
         486823.92    3618348.65        0.09499                    486873.81
3618348.65        0.07792
         486125.46    3618398.65        0.07794                    486175.35
3618398.65        0.10008
         486225.24    3618398.65        0.14996                    486275.13
3618398.65        0.21744
         486325.02    3618398.65        0.36011                    486374.91
3618398.65        0.56264
         486424.80    3618398.65        0.30494                    486474.69
3618398.65        0.22415
         486524.58    3618398.65        0.18138                    486574.47
3618398.65        0.15411
         486624.36    3618398.65        0.13491                    486674.25
3618398.65        0.11956
         486724.14    3618398.65        0.10674                    486774.03
3618398.65        0.09330
         486823.92    3618398.65        0.08409                    486125.46
3618448.65        0.07804
         486175.35    3618448.65        0.10900                    486225.24
3618448.65        0.18616
         486275.13    3618448.65        0.37469                    486325.02
3618448.65        0.45260
         486374.91    3618448.65        0.27315                    486424.80
3618448.65        0.20646
         486474.69    3618448.65        0.16894                    486524.58
3618448.65        0.14321
```

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                               *** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HAUL   ***
                                  INCLUDING SOURCE(S):   HAUL0001   , HAUL0002
 , HAUL0003   , HAUL0004   , HAUL0005   ,
                 HAUL0006   , HAUL0007   , HAUL0008   , HAUL0009   , HAUL0010
 , HAUL0011   , HAUL0012   , HAUL0013   ,
                 HAUL0014   , HAUL0015   , HAUL0016   , HAUL0017   , HAUL0018
 , HAUL0019   , HAUL0020   , HAUL0021   ,
                 HAUL0022   , HAUL0023   , HAUL0024   , HAUL0025   , HAUL0026
 , HAUL0027   , HAUL0028   , . . .   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                    ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

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3618548.65        0.12867
         486374.91    3618548.65        0.12511                        486424.80
3618548.65        0.11756
         486474.69    3618548.65        0.10729                        486524.58
3618548.65        0.09892
         486574.47    3618548.65        0.09093                        486624.36
3618548.65        0.08440
         485782.13    3617697.10        0.04478                        486117.99
3618113.14        0.06379
         487046.44    3616930.35        0.18137                        487001.92
3616865.64        0.16674
         487027.85    3616812.50        0.14342                        487059.32
3616825.09        0.14393
         487097.29    3616749.11        0.11345                        487391.33
3616829.05        0.11613
         487479.92    3616731.27        0.08364                        487502.82
3616688.63        0.07316
         487412.35    3616681.88        0.07899                        487364.99
3616592.30        0.06912
         487332.84    3616532.76        0.06439                        487293.41
3616472.19        0.06042
         487247.98    3616421.76        0.05791                        487197.40
3616436.07        0.06120
         487083.85    3616471.34        0.06975                        487021.64
3616518.54        0.07878
         486926.81    3616571.99        0.09357                        486895.57
3616630.03        0.10867
         486821.36    3616675.48        0.13150                        486753.38
3616756.79        0.18623
         486732.11    3616765.07        0.19930                        486714.34
3616771.99        0.21132
         486614.05    3616565.34        0.10941                        486419.27
3616678.32        0.13629
         486594.81    3616964.16        2.59039                        486605.37
3616981.34        3.84417
         486707.77    3616937.26        0.58456                        486905.55
3617015.39        0.26092
         487046.44    3616930.34        0.18414

 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE  86
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
```

```
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
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3616550.48       18.43223
         487720.59    3616550.48       16.11515                       487770.59
3616550.48       14.23147
         487820.59    3616550.48       12.67786                       487870.59
3616550.48       11.38031
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3616550.48        9.34896
         488020.59    3616550.48        8.54352                       488070.59
3616550.48        7.84439
         488120.59    3616550.48        7.04774                       488170.59
3616550.48        6.30482
         488220.59    3616550.48        5.83402                       488270.59
3616550.48        5.68266
         488320.59    3616550.48        5.09611                       488370.59
3616550.48        4.78263
         488420.59    3616550.48        4.49954                       488470.59
3616550.48        4.24289
         488520.59    3616550.48        4.00938                       488570.59
3616550.48        3.79620
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3616600.48       32.39156
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3616600.48       22.90767
         487670.59    3616600.48       19.53132                       487720.59
3616600.48       16.89612
         487770.59    3616600.48       14.79759                       487820.59
3616600.48       13.09658
         487870.59    3616600.48       11.69612                       487920.59
3616600.48       10.52691
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         488170.59    3616600.48        6.50152                      488220.59
3616600.48        5.83735
         488270.59    3616600.48        5.68934                      488320.59
3616600.48        5.09155
         488370.59    3616600.48        4.77581                      488420.59
3616600.48        4.49116
         488470.59    3616600.48        4.23347                      488520.59
3616600.48        3.99929
         488570.59    3616600.48        3.78573                      488620.59
3616600.48        3.59031
         487970.59    3616650.48        9.61227                      488020.59
3616650.48        8.67952
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3616650.48        7.30896
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3616650.48        6.03230
         488270.59    3616650.48        5.83072                      488320.59
3616650.48        5.24229
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3616650.48        4.40474
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3616650.48        3.97594
         488570.59    3616650.48        3.76349                      488620.59
3616650.48        3.56917
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3616700.48       29.97278
         487620.59    3616700.48       24.17211                      487670.59
3616700.48       20.18509
         487720.59    3616700.48       17.24876                      487770.59
3616700.48       14.99158
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3616700.48       11.75224
         487920.59    3616700.48       10.55367                      487970.59
3616700.48        9.59549
         488020.59    3616700.48        8.65082                      488070.59
3616700.48        7.91814
         488120.59    3616700.48        7.28351                      488170.59
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         488220.59    3616700.48        6.24199                      488270.59
3616700.48        5.81072
         488320.59    3616700.48        5.20558                      488370.59
3616700.48        4.71545
         488420.59    3616700.48        4.42648                      488470.59
3616700.48        4.17078
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                            *** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONSTRUC ***
                                INCLUDING SOURCE(S):   VOL1   , VOL2
 , VOL3   , VOL5   , VOL6   ,
                  VOL7   , VOL8   , VOL9   , VOL10   , VOL11
 , VOL12   , VOL13   , VOL14   ,
                  VOL15   , VOL16   , VOL17   , VOL18   , VOL19
 , VOL20   , VOL21   , VOL22   ,
                  VOL23   , VOL24   , VOL25   , VOL26   , VOL27
 , VOL28   , VOL29   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

3616750.48 4.12583
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3616750.48 3.66263
488620.59 3616750.48 3.50378 487120.59
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487170.59 3616800.48 67.22464 487220.59
3616800.48 68.48912
487270.59 3616800.48 69.86531 487420.59
3616800.48 58.44405
487470.59 3616800.48 47.45296 487520.59
3616800.48 35.36677
487570.59 3616800.48 27.48026 487620.59
3616800.48 22.89006
487670.59 3616800.48 19.22576 487720.59
3616800.48 16.49097
487770.59 3616800.48 14.37871 487820.59
3616800.48 12.69882
487870.59 3616800.48 11.33211 487920.59
3616800.48 10.19964
487970.59 3616800.48 9.23232 488020.59
3616800.48 8.14994
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3616800.48 6.89096
488170.59 3616800.48 6.37670 488220.59
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488370.59 3616800.48 4.47647 488420.59
3616800.48 4.21407
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3616800.48 3.76020
488570.59 3616800.48 3.61894 488620.59
3616800.48 3.38477
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487020.59 3616850.48 70.41780 487070.59
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3616850.48 53.02781
487320.59 3616850.48 52.45845 487370.59
3616850.48 50.65208
487420.59 3616850.48 45.49834 487470.59
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3616850.48 18.31210
487720.59 3616850.48 15.84568 487770.59

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3616850.48       13.89777
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3616850.48       11.03590
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3616850.48        8.63323
         488020.59    3616850.48        7.88567                      488070.59
3616850.48        7.24182
🡅 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***       11:59:01

                                 PAGE  88
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                            *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         488120.59    3616850.48        6.68184                      488170.59
3616850.48        6.13539
         488220.59    3616850.48        5.47259                      488270.59
3616850.48        5.44024
         488320.59    3616850.48        4.60499                      488370.59
3616850.48        4.28565
         488420.59    3616850.48        4.03803                      488470.59
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3616900.48       40.88668
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3616900.48       30.92784
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3616900.48       22.75497
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3616900.48       17.33007
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3616900.48        3.76917
         488520.59    3616900.48        3.64156                    488570.59
3616900.48        3.53824
         488620.59    3616900.48        3.48793                    486170.59
3616950.48        7.83150
         486220.59    3616950.48        8.56213                    486370.59
3616950.48       11.65304
         486420.59    3616950.48       13.16058                    486470.59
3616950.48       15.07876
         486520.59    3616950.48       17.64934                    486570.59
3616950.48       21.76746
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3616950.48       54.25934
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3616950.48       39.63142
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3616950.48       34.59767
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3616950.48       28.34440
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3616950.48        8.91177
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3616950.48        7.25388
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3616950.48        6.16946
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3616950.48        4.77881
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                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
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         488470.59    3616950.48        3.71651                       488520.59
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488370.59 3617000.48 4.49990 488420.59
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3617000.48 3.75982
488570.59 3617000.48 3.60801 488620.59

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3617000.48        3.42804
         486170.59    3617050.48        7.48314                        486220.59
3617050.48        8.14156
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3617050.48        9.78851
         486370.59    3617050.48       10.83599                        486420.59
3617050.48       12.17673
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3617050.48       15.48341
         486570.59    3617050.48       17.87992                        486620.59
3617050.48       19.06113
         486670.59    3617050.48       21.24626                        486720.59
3617050.48       23.87259
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3617050.48       36.59704
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3617050.48       33.14688
         487070.59    3617050.48       29.29073                        487120.59
3617050.48       26.93191
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3617050.48       24.30877
         487270.59    3617050.48       23.38589                        487320.59
3617050.48       22.51202
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***       11:59:01

                                  PAGE  90
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
487370.59	3617050.48	21.13372	487420.59	3617050.48	19.36465
487470.59	3617050.48	18.18151	487520.59	3617050.48	17.53638
487570.59	3617050.48	16.48128	487620.59	3617050.48	14.92992
487670.59	3617050.48	13.46357	487720.59	3617050.48	11.73796
487770.59	3617050.48	10.64748	487820.59	3617050.48	9.66509
487870.59	3617050.48	8.79124	487920.59	3617050.48	8.01721
487970.59	3617050.48	7.33210	488020.59	3617050.48	6.72700
488070.59	3617050.48	6.14802	488120.59	3617050.48	5.95156
488170.59	3617050.48	5.51597	488220.59	3617050.48	4.26262
488270.59	3617050.48	3.65316	488320.59	3617050.48	4.03704
488370.59	3617050.48	4.39387	488420.59	3617050.48	4.17823
488470.59	3617050.48	3.61240	488520.59	3617050.48	3.67631
488570.59	3617050.48	3.55350	488620.59	3617050.48	3.37804
486220.59	3617100.48	7.88156	486270.59	3617100.48	8.58343
486320.59	3617100.48	9.39172	486370.59	3617100.48	10.32998
486420.59	3617100.48	11.42688	486470.59	3617100.48	12.83113
486520.59	3617100.48	14.40759	486570.59	3617100.48	16.07888
486620.59	3617100.48	15.89728	486670.59	3617100.48	17.20611
486720.59	3617100.48	18.39749	486770.59	3617100.48	20.41653
486820.59	3617100.48	22.57994	486870.59	3617100.48	24.50764
486920.59	3617100.48	24.75300	486970.59	3617100.48	24.88576
487020.59	3617100.48	24.13787	487070.59	3617100.48	23.19361
487120.59	3617100.48	22.18325	487170.59	3617100.48	20.30174

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         487220.59    3617100.48       19.58738                      487270.59
3617100.48       18.93129
         487320.59    3617100.48       18.29368                      487370.59
3617100.48       17.61625
         487420.59    3617100.48       16.84875                      487470.59
3617100.48       15.95150
         487520.59    3617100.48       14.75260                      487570.59
3617100.48       13.32939
         487620.59    3617100.48       12.46211                      487670.59
3617100.48       11.43165
         487720.59    3617100.48       10.33068                      487770.59
3617100.48        9.51080
         487820.59    3617100.48        8.72304                      487870.59
3617100.48        7.98535
         487920.59    3617100.48        7.01739                      487970.59
3617100.48        6.15722
         488020.59    3617100.48        5.21732                      488070.59
3617100.48        4.09381
         488120.59    3617100.48        3.75052                      488170.59
3617100.48        3.86205
         488220.59    3617100.48        3.04867                      488270.59
3617100.48        2.90096
         488320.59    3617100.48        3.57730                      488370.59
3617100.48        3.96757
         488420.59    3617100.48        4.08473                      488470.59
3617100.48        3.75043
         488520.59    3617100.48        3.63047                      488570.59
3617100.48        3.00396
         488620.59    3617100.48        2.54777                      486270.59
3617150.48        8.24049
         486320.59    3617150.48        8.96820                      486370.59
3617150.48        9.86305
         486420.59    3617150.48       10.74613                      486470.59
3617150.48       11.82804
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***       11:59:01

                                 PAGE  91
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
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                VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                                  *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         486520.59    3617150.48       13.05589                       486570.59
3617150.48       12.51400
         486620.59    3617150.48       12.90457                       486670.59
3617150.48       14.02429
         486720.59    3617150.48       14.30306                       486770.59
3617150.48       15.10204
         486820.59    3617150.48       16.43421                       486870.59
3617150.48       17.63289
         486920.59    3617150.48       18.03959                       486970.59
3617150.48       18.55593
         487020.59    3617150.48       18.86664                       487070.59
3617150.48       18.59144
         487120.59    3617150.48       18.01664                       487170.59
3617150.48       15.87307
         487220.59    3617150.48       16.23028                       487270.59
3617150.48       15.73962
         487320.59    3617150.48       14.07358                       487370.59
3617150.48       13.69147
         487420.59    3617150.48       13.25971                       487470.59
3617150.48       12.73927
         487520.59    3617150.48       10.89747                       487570.59
3617150.48       10.24131
         487620.59    3617150.48        8.85369                       487670.59
3617150.48        8.37165
         487720.59    3617150.48        7.87414                       487770.59
3617150.48        6.77393
         487820.59    3617150.48        6.32449                       487870.59
3617150.48        5.44459
         487920.59    3617150.48        4.72622                       487970.59
3617150.48        4.15188
         488020.59    3617150.48        3.65023                       488070.59
3617150.48        3.19109
         488120.59    3617150.48        3.01836                       488170.59
3617150.48        2.76563
         488220.59    3617150.48        2.51439                       488270.59
3617150.48        2.59070
         488320.59    3617150.48        3.16847                       488370.59
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3617150.48   3.14511
         488420.59   3617150.48   3.68120   488470.59
3617150.48   3.85108
         488520.59   3617150.48   3.43705   488570.59
3617150.48   2.59696
         488620.59   3617150.48   2.15426   485970.59
3617200.48   5.19079
         486020.59   3617200.48   5.53030   486220.59
3617200.48   7.30431
         486270.59   3617200.48   7.88358   486320.59
3617200.48   8.53268
         486370.59   3617200.48   9.30191   486420.59
3617200.48   10.11869
         486470.59   3617200.48   11.04799   486520.59
3617200.48   10.58301
         486570.59   3617200.48   10.57356   486620.59
3617200.48   11.15722
         486670.59   3617200.48   11.06437   486720.59
3617200.48   12.01618
         486770.59   3617200.48   11.24296   486820.59
3617200.48   12.11511
         486870.59   3617200.48   12.92970   486920.59
3617200.48   13.24379
         486970.59   3617200.48   12.28149   487020.59
3617200.48   13.77368
         487070.59   3617200.48   13.68209   487120.59
3617200.48   12.62411
         487170.59   3617200.48   12.50747   487220.59
3617200.48   10.89988
         487270.59   3617200.48   10.69243   487320.59
3617200.48   9.54167
         487370.59   3617200.48   9.37044   487420.59
3617200.48   9.20020
         487470.59   3617200.48   9.14187   487520.59
3617200.48   8.04855
         487570.59   3617200.48   6.56976   487620.59
3617200.48   6.26688
         487670.59   3617200.48   6.01856   487720.59
3617200.48   5.78596
         487770.59   3617200.48   5.12982   487820.59
3617200.48   4.74327
         487870.59   3617200.48   4.49901   487920.59
3617200.48   3.94171

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

```
                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         487970.59    3617200.48        3.60710                      488020.59
3617200.48        3.10173
         488070.59    3617200.48        2.88826                      488120.59
3617200.48        2.72842
         488170.59    3617200.48        2.39897                      488220.59
3617200.48        2.17054
         488270.59    3617200.48        2.33158                      488320.59
3617200.48        2.97891
         488370.59    3617200.48        2.75334                      488420.59
3617200.48        3.16855
         488470.59    3617200.48        3.80250                      488520.59
3617200.48        3.46050
         488570.59    3617200.48        2.62237                      488620.59
3617200.48        1.92888
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3617250.48        5.05180
         486020.59    3617250.48        5.37010                      486070.59
3617250.48        5.72005
         486170.59    3617250.48        6.53117                      486220.59
3617250.48        7.00155
         486270.59    3617250.48        7.52173                      486320.59
3617250.48        8.11993
         486370.59    3617250.48        7.85933                      486420.59
3617250.48        9.46363
         486470.59    3617250.48        9.13082                      486520.59
3617250.48        8.88159
         486570.59    3617250.48        9.27067                      486620.59
3617250.48        9.16599
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         486670.59    3617250.48        8.95300                    486720.59
3617250.48        8.97580
         486770.59    3617250.48        8.97674                    486820.59
3617250.48        9.55691
         486870.59    3617250.48        9.51943                    486920.59
3617250.48        9.39089
         486970.59    3617250.48        9.78634                    487020.59
3617250.48       10.05957
         487070.59    3617250.48        9.97219                    487120.59
3617250.48        9.06449
         487170.59    3617250.48        8.29663                    487220.59
3617250.48        8.01640
         487270.59    3617250.48        7.94117                    487320.59
3617250.48        6.64602
         487370.59    3617250.48        6.62782                    487420.59
3617250.48        6.79445
         487470.59    3617250.48        6.64629                    487520.59
3617250.48        6.31539
         487570.59    3617250.48        5.56381                    487620.59
3617250.48        5.11900
         487670.59    3617250.48        4.88337                    487720.59
3617250.48        4.58581
         487770.59    3617250.48        4.43371                    487820.59
3617250.48        3.96200
         487870.59    3617250.48        3.68472                    487920.59
3617250.48        3.27274
         487970.59    3617250.48        3.03682                    488020.59
3617250.48        2.88269
         488070.59    3617250.48        2.61037                    488120.59
3617250.48        2.43506
         488170.59    3617250.48        2.23951                    488220.59
3617250.48        2.12572
         488270.59    3617250.48        2.61010                    488320.59
3617250.48        2.68468
         488370.59    3617250.48        2.37728                    488420.59
3617250.48        2.90553
         488470.59    3617250.48        3.74094                    488520.59
3617250.48        2.25089
         488570.59    3617250.48        2.93209                    488620.59
3617250.48        2.21924
         485870.59    3617300.48        4.38556                    485920.59
3617300.48        4.63553
         485970.59    3617300.48        4.90776                    486020.59
3617300.48        5.20473
         486070.59    3617300.48        5.52911                    486120.59
3617300.48        5.88386
         486170.59    3617300.48        6.27212                    486220.59
3617300.48        6.71363
         486270.59    3617300.48        7.12762                    486320.59
3617300.48        6.91307
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         486370.59    3617300.48        7.10831                      486420.59
3617300.48        7.29492
↑ *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE  93
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         486470.59    3617300.48        7.60111                      486520.59
3617300.48        7.28181
         486570.59    3617300.48        7.64707                      486620.59
3617300.48        7.07544
         486670.59    3617300.48        7.37757                      486720.59
3617300.48        7.06718
         486770.59    3617300.48        7.36473                      486820.59
3617300.48        6.96339
         486870.59    3617300.48        7.26963                      486920.59
3617300.48        7.61259
         486970.59    3617300.48        7.05445                      487020.59
3617300.48        7.18471
         487070.59    3617300.48        7.32854                      487120.59
3617300.48        6.66747
         487170.59    3617300.48        6.14125                      487220.59
3617300.48        5.95756
         487270.59    3617300.48        5.95130                      487320.59
3617300.48        5.51094
         487370.59    3617300.48        5.32770                      487420.59
```

3617300.48 5.30153
487470.59 3617300.48 5.34430 487520.59
3617300.48 5.41121
487570.59 3617300.48 4.95989 487620.59
3617300.48 4.84107
487670.59 3617300.48 4.22762 487720.59
3617300.48 4.04321
487770.59 3617300.48 3.56552 487820.59
3617300.48 3.33178
487870.59 3617300.48 2.98809 487920.59
3617300.48 2.61754
487970.59 3617300.48 2.52130 488020.59
3617300.48 2.42222
488070.59 3617300.48 2.32098 488120.59
3617300.48 2.21888
488170.59 3617300.48 2.11957 488220.59
3617300.48 2.07534
488270.59 3617300.48 2.37531 488320.59
3617300.48 2.36805
488370.59 3617300.48 2.09974 488420.59
3617300.48 2.74131
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3617300.48 1.86996
488570.59 3617300.48 2.19132 488620.59
3617300.48 2.96666
485870.59 3617350.48 4.27117 485920.59
3617350.48 4.50595
485970.59 3617350.48 4.76031 486020.59
3617350.48 5.03616
486070.59 3617350.48 5.33552 486120.59
3617350.48 5.66051
486170.59 3617350.48 6.03228 486220.59
3617350.48 6.36387
486270.59 3617350.48 5.99877 486320.59
3617350.48 6.21401
486370.59 3617350.48 6.28267 486420.59
3617350.48 6.69142
486470.59 3617350.48 6.43613 486520.59
3617350.48 6.70798
486570.59 3617350.48 6.16802 486620.59
3617350.48 6.23637
486670.59 3617350.48 6.04859 486720.59
3617350.48 5.78675
486770.59 3617350.48 5.97507 486820.59
3617350.48 5.65095
486870.59 3617350.48 5.86616 486920.59
3617350.48 5.87010
486970.59 3617350.48 5.71467 487020.59
3617350.48 5.81721
487070.59 3617350.48 5.31953 487120.59

3617350.48   5.45564
         487170.59   3617350.48   5.46224   487220.59
3617350.48   4.93474
         487270.59   3617350.48   4.95695   487320.59
3617350.48   4.99191
         487370.59   3617350.48   4.99481   487420.59
3617350.48   4.96223
         487470.59   3617350.48   4.89646   487520.59
3617350.48   4.80399
         487570.59   3617350.48   4.69701   487620.59
3617350.48   4.58979

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                              *** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONSTRUC ***
                                  INCLUDING SOURCE(S):   VOL1   , VOL2
 , VOL3   , VOL5   , VOL6   ,
                 VOL7   , VOL8   , VOL9   , VOL10   , VOL11
 , VOL12   , VOL13   , VOL14   ,
                 VOL15   , VOL16   , VOL17   , VOL18   , VOL19
 , VOL20   , VOL21   , VOL22   ,
                 VOL23   , VOL24   , VOL25   , VOL26   , VOL27
 , VOL28   , VOL29   , . . .   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

```
         488170.59    3617350.48        1.96069                    488220.59
3617350.48        2.08639
         488270.59    3617350.48        2.15951                    488320.59
3617350.48        2.07830
         488370.59    3617350.48        2.18240                    488420.59
3617350.48        2.59555
         488470.59    3617350.48        3.67123                    488520.59
3617350.48        2.76607
         488570.59    3617350.48        2.98431                    488620.59
3617350.48        3.06351
         485870.59    3617400.48        4.15439                    485920.59
3617400.48        4.37411
         485970.59    3617400.48        4.62314                    486020.59
3617400.48        4.87331
         486070.59    3617400.48        5.14147                    486120.59
3617400.48        5.45495
         486170.59    3617400.48        5.75445                    486220.59
3617400.48        5.35967
         486270.59    3617400.48        5.49370                    486320.59
3617400.48        5.59414
         486370.59    3617400.48        5.64023                    486420.59
3617400.48        5.72750
         486470.59    3617400.48        5.79321                    486520.59
3617400.48        5.36642
         486570.59    3617400.48        5.11772                    486620.59
3617400.48        5.18863
         486670.59    3617400.48        4.93794                    486720.59
3617400.48        4.97492
         486770.59    3617400.48        4.80995                    486820.59
3617400.48        4.75540
         486870.59    3617400.48        4.76614                    486920.59
3617400.48        4.78528
         486970.59    3617400.48        4.45621                    487020.59
3617400.48        4.34721
         487070.59    3617400.48        4.25862                    487120.59
3617400.48        4.04463
         487170.59    3617400.48        4.16175                    487220.59
3617400.48        3.99322
         487270.59    3617400.48        4.07037                    487320.59
3617400.48        4.12070
         487370.59    3617400.48        4.67997                    487420.59
3617400.48        4.66523
         487470.59    3617400.48        4.61874                    487520.59
3617400.48        4.54515
         487570.59    3617400.48        4.44435                    487620.59
3617400.48        4.13345
         487670.59    3617400.48        3.93463                    487720.59
3617400.48        2.73666
         487770.59    3617400.48        2.56281                    487820.59
3617400.48        2.51380
```

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         487870.59    3617400.48        2.44930                      487920.59
3617400.48        2.27370
         487970.59    3617400.48        2.21035                      488020.59
3617400.48        2.14478
         488070.59    3617400.48        2.07733                      488120.59
3617400.48        2.00797
         488170.59    3617400.48        1.94057                      488220.59
3617400.48        2.04560
         488270.59    3617400.48        1.91071                      488320.59
3617400.48        1.80154
         488370.59    3617400.48        1.83680                      488420.59
3617400.48        2.95729
         488470.59    3617400.48        3.65996                      488520.59
3617400.48        3.42840
         488570.59    3617400.48        3.24627                      488620.59
3617400.48        3.14292
         485870.59    3617450.48        4.03610                      485920.59
3617450.48        4.24109
         485970.59    3617450.48        4.46084                      486020.59
3617450.48        4.70833
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE  95
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                             *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         486070.59    3617450.48        4.94108                      486120.59
```

3617450.48 4.67853
486170.59 3617450.48 4.83132 486220.59
3617450.48 4.76536
486270.59 3617450.48 4.96656 486320.59
3617450.48 5.05143
486370.59 3617450.48 5.01458 486420.59
3617450.48 5.17434
486470.59 3617450.48 4.75353 486520.59
3617450.48 4.46953
486570.59 3617450.48 4.63436 486620.59
3617450.48 4.33597
486670.59 3617450.48 4.03970 486720.59
3617450.48 4.16915
486770.59 3617450.48 3.91826 486820.59
3617450.48 4.03878
486870.59 3617450.48 3.91213 486920.59
3617450.48 3.97318
486970.59 3617450.48 3.55399 487020.59
3617450.48 3.40393
487070.59 3617450.48 3.34679 487120.59
3617450.48 3.09951
487170.59 3617450.48 3.15352 487220.59
3617450.48 3.28893
487270.59 3617450.48 3.80126 487320.59
3617450.48 3.91108
487370.59 3617450.48 4.38530 487420.59
3617450.48 4.38443
487470.59 3617450.48 4.35460 487520.59
3617450.48 4.24572
487570.59 3617450.48 3.49591 487620.59
3617450.48 2.57785
487670.59 3617450.48 2.35817 487720.59
3617450.48 2.33077
487770.59 3617450.48 2.30110 487820.59
3617450.48 2.19641
487870.59 3617450.48 2.04917 487920.59
3617450.48 2.00410
487970.59 3617450.48 2.01532 488020.59
3617450.48 1.87941
488070.59 3617450.48 1.83284 488120.59
3617450.48 1.86313
488170.59 3617450.48 1.72504 488220.59
3617450.48 1.82399
488270.59 3617450.48 1.75078 488320.59
3617450.48 1.52484
488370.59 3617450.48 1.70664 488420.59
3617450.48 3.62933
488470.59 3617450.48 3.61908 488520.59
3617450.48 3.44733
488570.59 3617450.48 3.27952 488620.59

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3617450.48        3.03896
         485870.59    3617500.48        3.92454                        485920.59
3617500.48        4.10789
         485970.59    3617500.48        4.31134                        486020.59
3617500.48        4.49473
         486070.59    3617500.48        4.21066                        486120.59
3617500.48        4.42348
         486170.59    3617500.48        4.37436                        486220.59
3617500.48        4.55002
         486270.59    3617500.48        4.44595                        486320.59
3617500.48        4.52226
         486370.59    3617500.48        4.18613                        486420.59
3617500.48        4.29812
         486470.59    3617500.48        4.06617                        486520.59
3617500.48        3.81967
         486570.59    3617500.48        3.93383                        486620.59
3617500.48        3.67068
         486670.59    3617500.48        3.41616                        486720.59
3617500.48        3.50189
         486770.59    3617500.48        3.29706                        486820.59
3617500.48        3.35979
         486870.59    3617500.48        3.17782                        486920.59
3617500.48        3.33118
         486970.59    3617500.48        2.95756                        487020.59
3617500.48        2.77956
         487070.59    3617500.48        2.54501                        487120.59
3617500.48        2.62828
         487170.59    3617500.48        2.66963                        487220.59
3617500.48        2.89665
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE  96
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***
```

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
487270.59	3617500.48	3.57402	487320.59	3617500.48	4.05138
487370.59	3617500.48	4.11236	487420.59	3617500.48	3.76615
487470.59	3617500.48	3.46464	487520.59	3617500.48	2.93616
487570.59	3617500.48	2.18076	487620.59	3617500.48	2.06149
487670.59	3617500.48	2.07630	487720.59	3617500.48	1.90786
487770.59	3617500.48	1.88820	487820.59	3617500.48	1.86464
487870.59	3617500.48	1.83560	487920.59	3617500.48	1.80129
487970.59	3617500.48	1.71472	488020.59	3617500.48	1.57814
488070.59	3617500.48	1.54437	488120.59	3617500.48	1.49793
488170.59	3617500.48	1.46234	488220.59	3617500.48	1.54649
488270.59	3617500.48	1.53234	488320.59	3617500.48	1.41278
488370.59	3617500.48	1.99878	488420.59	3617500.48	3.69023
488470.59	3617500.48	3.57033	488520.59	3617500.48	3.40728
488570.59	3617500.48	3.24687	488620.59	3617500.48	3.01983
485870.59	3617550.48	3.80116	485920.59	3617550.48	3.96484
485970.59	3617550.48	3.80407	486020.59	3617550.48	3.86642
486070.59	3617550.48	4.04150	486120.59	3617550.48	4.00813
486170.59	3617550.48	4.14542	486220.59	3617550.48	4.13582
486270.59	3617550.48	4.10451	486320.59	3617550.48	3.85452
486370.59	3617550.48	3.88293	486420.59	3617550.48	3.69765
486470.59	3617550.48	3.51593	486520.59	3617550.48	3.52514

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         486570.59    3617550.48        3.33247                       486620.59
3617550.48        3.14456
         486670.59    3617550.48        2.95915                       486720.59
3617550.48        2.77302
         486770.59    3617550.48        2.77886                       486820.59
3617550.48        2.61926
         486870.59    3617550.48        2.49709                       486920.59
3617550.48        2.52258
         486970.59    3617550.48        2.31158                       487020.59
3617550.48        2.17114
         487070.59    3617550.48        1.97705                       487120.59
3617550.48        2.04535
         487170.59    3617550.48        2.11217                       487220.59
3617550.48        2.27097
         487270.59    3617550.48        3.26215                       487320.59
3617550.48        3.43080
         487370.59    3617550.48        2.99173                       487420.59
3617550.48        2.34305
         487470.59    3617550.48        2.12718                       487520.59
3617550.48        2.12405
         487570.59    3617550.48        1.91733                       487620.59
3617550.48        1.82270
         487670.59    3617550.48        1.78106                       487720.59
3617550.48        1.72267
         487770.59    3617550.48        1.70907                       487820.59
3617550.48        1.69257
         487870.59    3617550.48        1.59624                       487920.59
3617550.48        1.51214
         487970.59    3617550.48        1.34974                       488020.59
3617550.48        1.29262
         488070.59    3617550.48        1.27432                       488120.59
3617550.48        1.24854
         488170.59    3617550.48        1.24887                       488220.59
3617550.48        1.31801
         488270.59    3617550.48        1.44131                       488320.59
3617550.48        1.56386
         488370.59    3617550.48        2.79695                       488420.59
3617550.48        3.62432
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE  97
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
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```
                VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         488470.59    3617550.48        3.51634                     488520.59
3617550.48        3.36194
         488570.59    3617550.48        3.20948                     488620.59
3617550.48        3.03253
         485870.59    3617600.48        3.67210                     485920.59
3617600.48        3.41561
         485970.59    3617600.48        3.56640                     486020.59
3617600.48        3.70531
         486070.59    3617600.48        3.63467                     486120.59
3617600.48        3.79783
         486170.59    3617600.48        3.94679                     486220.59
3617600.48        3.74826
         486270.59    3617600.48        3.91401                     486320.59
3617600.48        3.54602
         486370.59    3617600.48        3.31629                     486420.59
3617600.48        3.19142
         486470.59    3617600.48        3.19527                     486520.59
3617600.48        2.97973
         486570.59    3617600.48        2.83668                     486620.59
3617600.48        2.70737
         486670.59    3617600.48        2.57573                     486720.59
3617600.48        2.38636
         486770.59    3617600.48        2.20364                     486820.59
3617600.48        2.03932
         486870.59    3617600.48        2.09872                     486920.59
3617600.48        1.94000
         486970.59    3617600.48        1.82839                     487020.59
3617600.48        1.74849
         487070.59    3617600.48        1.76839                     487120.59
3617600.48        1.82897
         487170.59    3617600.48        1.86590                     487220.59
3617600.48        2.11341
         487270.59    3617600.48        3.51961                     487320.59
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3617600.48        2.75617
         487370.59    3617600.48        1.88911                       487420.59
3617600.48        1.88166
         487470.59    3617600.48        1.78694                       487520.59
3617600.48        1.72650
         487570.59    3617600.48        1.72146                       487620.59
3617600.48        1.62564
         487670.59    3617600.48        1.58464                       487720.59
3617600.48        1.55673
         487770.59    3617600.48        1.54812                       487820.59
3617600.48        1.43496
         487870.59    3617600.48        1.40398                       487920.59
3617600.48        1.32157
         487970.59    3617600.48        1.18622                       488020.59
3617600.48        1.08696
         488070.59    3617600.48        1.13859                       488120.59
3617600.48        1.11320
         488170.59    3617600.48        1.17451                       488220.59
3617600.48        1.24250
         488270.59    3617600.48        1.44053                       488320.59
3617600.48        1.96679
         488370.59    3617600.48        2.89319                       488420.59
3617600.48        3.45590
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3617600.48        3.31212
         488570.59    3617600.48        3.16738                       488620.59
3617600.48        3.02228
         485870.59    3617650.48        3.26792                       485920.59
3617650.48        3.30298
         485970.59    3617650.48        3.44242                       486020.59
3617650.48        3.38657
         486070.59    3617650.48        3.49636                       486120.59
3617650.48        3.64522
         486170.59    3617650.48        3.47956                       486220.59
3617650.48        3.58495
         486270.59    3617650.48        3.40291                       486320.59
3617650.48        3.26627
         486370.59    3617650.48        3.14665                       486420.59
3617650.48        2.96346
         486470.59    3617650.48        2.77020                       486520.59
3617650.48        2.58172
         486570.59    3617650.48        2.45043                       486620.59
3617650.48        2.32512
         486670.59    3617650.48        2.20465                       486720.59
3617650.48        2.04456
         486770.59    3617650.48        1.89265                       486820.59
3617650.48        1.75826
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONSTRUC ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL5 , VOL6 ,
VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 ,
VOL15 , VOL16 , VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 ,
VOL23 , VOL24 , VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
486870.59	3617650.48	1.67777	486920.59	3617650.48	1.61024
486970.59	3617650.48	1.58559	487020.59	3617650.48	1.62060
487070.59	3617650.48	1.68110	487120.59	3617650.48	1.73682
487170.59	3617650.48	2.00282	487220.59	3617650.48	2.73567
487270.59	3617650.48	2.21105	487320.59	3617650.48	1.81657
487370.59	3617650.48	1.65633	487420.59	3617650.48	1.53520
487470.59	3617650.48	1.54566	487520.59	3617650.48	1.48752
487570.59	3617650.48	1.42569	487620.59	3617650.48	1.42030
487670.59	3617650.48	1.41424	487720.59	3617650.48	1.38895
487770.59	3617650.48	1.38417	487820.59	3617650.48	1.29322
487870.59	3617650.48	1.26298	487920.59	3617650.48	1.18018
487970.59	3617650.48	1.14900	488020.59	3617650.48	1.11315

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         488070.59    3617650.48        1.04492                    488120.59
3617650.48        1.11253
         488170.59    3617650.48        1.23079                    488220.59
3617650.48        1.30639
         488270.59    3617650.48        1.40268                    488320.59
3617650.48        1.43064
         488370.59    3617650.48        2.52764                    488420.59
3617650.48        3.44300
         488470.59    3617650.48        3.39878                    488520.59
3617650.48        3.25926
         488570.59    3617650.48        3.12150                    488620.59
3617650.48        2.93211
         485870.59    3617700.48        3.07014                    485920.59
3617700.48        3.09382
         485970.59    3617700.48        3.14579                    486020.59
3617700.48        3.23273
         486070.59    3617700.48        3.21739                    486120.59
3617700.48        3.22757
         486170.59    3617700.48        3.29981                    486220.59
3617700.48        3.15421
         486270.59    3617700.48        2.99321                    486320.59
3617700.48        2.85373
         486370.59    3617700.48        2.71439                    486420.59
3617700.48        2.60138
         486470.59    3617700.48        2.50484                    486520.59
3617700.48        2.28078
         486570.59    3617700.48        2.13553                    486620.59
3617700.48        1.99735
         486670.59    3617700.48        1.86597                    486720.59
3617700.48        1.67349
         486770.59    3617700.48        1.54518                    486820.59
3617700.48        1.45811
         486870.59    3617700.48        1.38410                    486920.59
3617700.48        1.42455
         486970.59    3617700.48        1.48768                    487020.59
3617700.48        1.54760
         487070.59    3617700.48        1.60363                    487120.59
3617700.48        1.65517
         487170.59    3617700.48        1.77176                    487220.59
3617700.48        1.72253
         487270.59    3617700.48        1.55244                    487320.59
3617700.48        1.48894
         487370.59    3617700.48        1.43141                    487420.59
3617700.48        1.37333
         487470.59    3617700.48        1.28541                    487520.59
3617700.48        1.29025
         487570.59    3617700.48        1.28999                    487620.59
3617700.48        1.28641
         487670.59    3617700.48        1.28192                    487720.59
3617700.48        1.27546
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         487770.59    3617700.48        1.22668                      487820.59
3617700.48        1.20771
         487870.59    3617700.48        1.13111                      487920.59
3617700.48        1.08555
         487970.59    3617700.48        1.11234                      488020.59
3617700.48        1.09726
🡅 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE  99
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         488070.59    3617700.48        1.16973                      488120.59
3617700.48        1.36708
         488170.59    3617700.48        1.44829                      488220.59
3617700.48        1.69958
         488270.59    3617700.48        1.76673                      488320.59
3617700.48        1.78399
         488370.59    3617700.48        2.29158                      488420.59
3617700.48        3.38137
         488470.59    3617700.48        3.33790                      488520.59
3617700.48        3.20473
         488570.59    3617700.48        3.07315                      488620.59
3617700.48        2.94799
         485870.59    3617750.48        2.88092                      485920.59
3617750.48        2.89013
         485970.59    3617750.48        2.96757                      486020.59
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3617750.48 2.83293
486070.59 3617750.48 2.93987 486120.59
3617750.48 3.00610
486170.59 3617750.48 2.92147 486220.59
3617750.48 2.81384
486270.59 3617750.48 2.68656 486320.59
3617750.48 2.64878
486370.59 3617750.48 2.54548 486420.59
3617750.48 2.38725
486470.59 3617750.48 2.22472 486520.59
3617750.48 2.06265
486570.59 3617750.48 1.94964 486620.59
3617750.48 1.72117
486670.59 3617750.48 1.57831 486720.59
3617750.48 1.43966
486770.59 3617750.48 1.33724 486820.59
3617750.48 1.25120
486870.59 3617750.48 1.30967 486920.59
3617750.48 1.36870
486970.59 3617750.48 1.42664 487020.59
3617750.48 1.48204
487070.59 3617750.48 1.53416 487120.59
3617750.48 1.55728
487170.59 3617750.48 1.48727 487220.59
3617750.48 1.43197
487270.59 3617750.48 1.28415 487320.59
3617750.48 1.30099
487370.59 3617750.48 1.22329 487420.59
3617750.48 1.15969
487470.59 3617750.48 1.08561 487520.59
3617750.48 1.08824
487570.59 3617750.48 1.09015 487620.59
3617750.48 1.09864
487670.59 3617750.48 1.17230 487720.59
3617750.48 1.15835
487770.59 3617750.48 1.09096 487820.59
3617750.48 1.09056
487870.59 3617750.48 1.08582 487920.59
3617750.48 1.07349
487970.59 3617750.48 1.09292 488020.59
3617750.48 1.10315
488070.59 3617750.48 1.39585 488120.59
3617750.48 1.83479
488170.59 3617750.48 1.79204 488220.59
3617750.48 2.07215
488270.59 3617750.48 2.17654 488320.59
3617750.48 2.35220
488370.59 3617750.48 3.13743 488420.59
3617750.48 3.32424
488470.59 3617750.48 3.28182 488520.59

```
3617750.48        3.14935
         488570.59    3617750.48        3.02345                      488620.59
3617750.48        2.90422
         485870.59    3617800.48        2.69652                      485920.59
3617800.48        2.78559
         485970.59    3617800.48        2.65392                      486020.59
3617800.48        2.73305
         486070.59    3617800.48        2.81466                      486120.59
3617800.48        2.58731
         486170.59    3617800.48        2.57743                      486220.59
3617800.48        2.49301
         486270.59    3617800.48        2.43283                      486370.59
3617800.48        2.23428
         486420.59    3617800.48        2.09443                      486470.59
3617800.48        2.06066
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 100
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         486520.59    3617800.48        1.97101                      486570.59
3617800.48        1.70011
         486620.59    3617800.48        1.49893                      486670.59
3617800.48        1.37781
         486720.59    3617800.48        1.25581                      486770.59
3617800.48        1.17145
```

```
         486820.59    3617800.48        1.20921                    486870.59
3617800.48        1.26343
         486920.59    3617800.48        1.31788                    486970.59
3617800.48        1.37130
         487020.59    3617800.48        1.33660                    487070.59
3617800.48        1.17988
         487120.59    3617800.48        1.07438                    487170.59
3617800.48        1.12572
         487220.59    3617800.48        1.12384                    487270.59
3617800.48        1.13791
         487320.59    3617800.48        1.08115                    487370.59
3617800.48        1.02538
         487420.59    3617800.48        1.04181                    487470.59
3617800.48        0.99036
         487520.59    3617800.48        0.97760                    487570.59
3617800.48        0.98306
         487620.59    3617800.48        1.04977                    487670.59
3617800.48        1.05550
         487720.59    3617800.48        1.04188                    487770.59
3617800.48        0.98422
         487820.59    3617800.48        0.98494                    487870.59
3617800.48        1.04932
         487920.59    3617800.48        1.17383                    487970.59
3617800.48        1.26658
         488020.59    3617800.48        1.57954                    488070.59
3617800.48        1.87263
         488120.59    3617800.48        2.48127                    488170.59
3617800.48        2.59248
         488220.59    3617800.48        2.80964                    488270.59
3617800.48        2.79349
         488320.59    3617800.48        3.43892                    488370.59
3617800.48        3.34285
         488420.59    3617800.48        3.29419                    488470.59
3617800.48        3.21884
         488520.59    3617800.48        3.09323                    488570.59
3617800.48        2.97301
         488620.59    3617800.48        2.85905                    485870.59
3617850.48        2.61116
         485920.59    3617850.48        2.58423                    485970.59
3617850.48        2.54930
         486020.59    3617850.48        2.58197                    486070.59
3617850.48        2.39728
         486120.59    3617850.48        2.39138                    486170.59
3617850.48        2.32184
         486220.59    3617850.48        2.28104                    486420.59
3617850.48        1.92975
         486470.59    3617850.48        1.81416                    486520.59
3617850.48        1.69752
         486570.59    3617850.48        1.52332                    486620.59
3617850.48        1.28786
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         486670.59    3617850.48        1.16101                      486720.59
3617850.48        1.09370
         486770.59    3617850.48        1.06040                      486820.59
3617850.48        1.11061
         486870.59    3617850.48        1.22077                      486920.59
3617850.48        1.27124
         486970.59    3617850.48        1.24955                      487020.59
3617850.48        1.00760
         487070.59    3617850.48        0.89836                      487120.59
3617850.48        0.81254
         487170.59    3617850.48        0.89480                      487220.59
3617850.48        0.93217
         487270.59    3617850.48        0.95726                      487320.59
3617850.48        0.95390
         487370.59    3617850.48        0.91822                      487420.59
3617850.48        0.91533
         487470.59    3617850.48        0.93481                      487520.59
3617850.48        0.93247
         487570.59    3617850.48        0.93708                      487620.59
3617850.48        0.97029
         487670.59    3617850.48        0.96864                      487720.59
3617850.48        0.93199
         487770.59    3617850.48        0.93106                      487820.59
3617850.48        0.93218
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 101
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
```

Y-COORD (M) CONC

- - - -

```
3617900.48        0.83489
         487720.59    3617900.48        0.82856                        487770.59
3617900.48        0.83491
         487820.59    3617900.48        0.89424                        487870.59
3617900.48        1.04822
         487920.59    3617900.48        1.32101                        487970.59
3617900.48        1.62964
         488020.59    3617900.48        1.80186                        488070.59
3617900.48        2.36121
         488120.59    3617900.48        2.62665                        488170.59
3617900.48        2.57970
         488220.59    3617900.48        2.36152                        488270.59
3617900.48        2.37596
         488320.59    3617900.48        2.30283                        488370.59
3617900.48        3.20951
         488420.59    3617900.48        3.14757                        488470.59
3617900.48        3.08432
         488520.59    3617900.48        2.97660                        488570.59
3617900.48        2.86925
         488620.59    3617900.48        2.76564                        485870.59
3617950.48        2.23770
         485920.59    3617950.48        2.30840                        485970.59
3617950.48        2.18716
         486020.59    3617950.48        2.16530                        486070.59
3617950.48        2.03323
         487077.48    3618005.05        0.63227                        487127.48
3618005.05        0.62177
         487177.48    3618005.05        0.64241                        487227.48
3618005.05        0.66034
         487277.48    3618005.05        0.67606                        487327.48
3618005.05        0.67507
         486470.59    3617950.48        1.47846                        486520.59
3617950.48        1.28280
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 102
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
```

, VOL28 , VOL29 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
486570.59	3617950.48	1.08785	486620.59	3617950.48	1.01544
486670.59	3617950.48	0.88835	486720.59	3617950.48	0.84812
486770.59	3617950.48	0.86178	486820.59	3617950.48	1.07469
486870.59	3617950.48	0.94143	486920.59	3617950.48	0.84863
486970.59	3617950.48	0.65473	487020.59	3617950.48	0.67575
487070.59	3617950.48	0.70131	487120.59	3617950.48	0.68133
487170.59	3617950.48	0.70460	487220.59	3617950.48	0.72518
487270.59	3617950.48	0.74355	487320.59	3617950.48	0.76018
487370.59	3617950.48	0.76617	487420.59	3617950.48	0.73936
487470.59	3617950.48	0.74978	487520.59	3617950.48	0.75720
487570.59	3617950.48	0.76157	487620.59	3617950.48	0.76328
487670.59	3617950.48	0.75954	487720.59	3617950.48	0.75326
487770.59	3617950.48	0.78985	487820.59	3617950.48	0.82924
487870.59	3617950.48	1.01116	487920.59	3617950.48	1.44775
487970.59	3617950.48	1.74745	488020.59	3617950.48	2.01108
488070.59	3617950.48	2.32141	488120.59	3617950.48	2.42330
488170.59	3617950.48	1.90443	488220.59	3617950.48	1.60694
488270.59	3617950.48	1.87202	488320.59	3617950.48	2.43739
488370.59	3617950.48	3.09932	488420.59	3617950.48	3.06901

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         488470.59    3617950.48        2.97380                      488520.59
3617950.48        2.91475
         488570.59    3617950.48        2.81482                      488620.59
3617950.48        2.71658
         487840.14    3615798.03        5.37679                      487890.14
3615798.03        5.16416
         487940.14    3615798.03        4.96428                      487990.14
3615798.03        4.76926
         488240.14    3615798.03        3.86658                      488290.14
3615798.03        3.71264
         488340.14    3615798.03        3.56775                      488390.14
3615798.03        3.43004
         488440.14    3615798.03        3.28431                      488490.14
3615798.03        3.16207
         488540.14    3615798.03        3.04618                      488590.14
3615798.03        2.93625
         487940.14    3615848.03        5.20517                      487990.14
3615848.03        4.98804
         488040.14    3615848.03        4.77885                      488190.14
3615848.03        4.18532
         488240.14    3615848.03        4.01706                      488290.14
3615848.03        3.84696
         488340.14    3615848.03        3.69162                      488390.14
3615848.03        3.53918
         488440.14    3615848.03        3.38948                      488490.14
3615848.03        3.25949
         488540.14    3615848.03        3.13650                      488590.14
3615848.03        3.02004
         487740.14    3615898.03        6.57606                      487990.14
3615898.03        5.22197
         488040.14    3615898.03        4.98594                      488090.14
3615898.03        4.77743
         488140.14    3615898.03        4.56489                      488190.14
3615898.03        4.36439
         488240.14    3615898.03        4.17327                      488290.14
3615898.03        3.98672
         488340.14    3615898.03        3.82011                      488390.14
3615898.03        3.65240
         488440.14    3615898.03        3.49787                      488490.14
3615898.03        3.35956
         488540.14    3615898.03        3.22895                      488590.14
3615898.03        3.10551
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 103
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data
```

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONSTRUC ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL5 , VOL6 ,
VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 ,
VOL15 , VOL16 , VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 ,
VOL23 , VOL24 , VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
487690.14	3615948.03	7.32256	487740.14	3615948.03	7.01362
487790.14	3615948.03	6.68641	488090.14	3615948.03	4.98821
488140.14	3615948.03	4.75641	488190.14	3615948.03	4.53909
488240.14	3615948.03	4.29394	488290.14	3615948.03	4.10787
488340.14	3615948.03	3.93888	488390.14	3615948.03	3.76558
488440.14	3615948.03	3.60911	488490.14	3615948.03	3.46183
488540.14	3615948.03	3.32305	488590.14	3615948.03	3.19215
487690.14	3615998.03	7.84036	487740.14	3615998.03	7.45334
487790.14	3615998.03	7.09372	487840.14	3615998.03	6.73177
487890.14	3615998.03	6.39213	488090.14	3615998.03	5.20975
488140.14	3615998.03	4.95709	488190.14	3615998.03	4.44965
488240.14	3615998.03	4.03831	488290.14	3615998.03	4.06050
488340.14	3615998.03	4.06790	488390.14	3615998.03	3.88968
488440.14	3615998.03	3.72255	488490.14	3615998.03	3.56561
488540.14	3615998.03	3.41808	488590.14		

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3615998.03        3.27924
         487540.14    3616048.03        9.81999                    487790.14
3616048.03        7.53005
         487840.14    3616048.03        7.12321                    487890.14
3616048.03        6.75737
         487940.14    3616048.03        6.39353                    488090.14
3616048.03        5.44254
         488140.14    3616048.03        5.12532                    488190.14
3616048.03        4.51661
         488240.14    3616048.03        4.16830                    488290.14
3616048.03        4.23191
         488340.14    3616048.03        4.20682                    488390.14
3616048.03        4.01582
         488440.14    3616048.03        3.83720                    488490.14
3616048.03        3.66993
         488540.14    3616048.03        3.51310                    488590.14
3616048.03        3.36568
         487540.14    3616098.03       10.72219                    487590.14
3616098.03       10.10262
         487640.14    3616098.03        9.62497                    487890.14
3616098.03        7.11821
         487940.14    3616098.03        6.73593                    487990.14
3616098.03        6.34245
         488040.14    3616098.03        5.98723                    488090.14
3616098.03        5.65311
         488140.14    3616098.03        5.08146                    488190.14
3616098.03        4.69322
         488240.14    3616098.03        4.49211                    488290.14
3616098.03        4.40880
         488340.14    3616098.03        4.34742                    488390.14
3616098.03        4.14268
         488440.14    3616098.03        3.95179                    488490.14
3616098.03        3.77357
         488540.14    3616098.03        3.56564                    488590.14
3616098.03        3.38259
         487540.14    3616148.03       11.73915                    487590.14
3616148.03       11.07564
         487640.14    3616148.03       10.37156                    487690.14
3616148.03        9.77306
         487940.14    3616148.03        7.07106                    487990.14
3616148.03        6.67316
         488040.14    3616148.03        6.26683                    488090.14
3616148.03        5.87817
         488140.14    3616148.03        5.32813                    488190.14
3616148.03        4.91584
         488240.14    3616148.03        4.69254                    488290.14
3616148.03        4.58696
         488340.14    3616148.03        4.48789                    488390.14
3616148.03        4.26854
         488440.14    3616148.03        4.06471                    488490.14
```

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                              *** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONSTRUC ***
                                  INCLUDING SOURCE(S):   VOL1   , VOL2
 , VOL3   , VOL5   , VOL6   ,
                 VOL7   , VOL8   , VOL9   , VOL10   , VOL11
 , VOL12   , VOL13   , VOL14   ,
                 VOL15   , VOL16   , VOL17   , VOL18   , VOL19
 , VOL20   , VOL21   , VOL22   ,
                 VOL23   , VOL24   , VOL25   , VOL26   , VOL27
 , VOL28   , VOL29   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)   CONC
 - - -

```
         487740.14    3616248.03       10.55831                    487790.14
3616248.03        9.70891
         487840.14    3616248.03        9.05034                    487940.14
3616248.03        7.87544
         487990.14    3616248.03        7.27996                    488040.14
3616248.03        6.81297
         488090.14    3616248.03        6.38866                    488140.14
3616248.03        5.82874
         488190.14    3616248.03        5.35898                    488240.14
3616248.03        5.08216
         488290.14    3616248.03        4.92553                    488340.14
3616248.03        4.75885
         488390.14    3616248.03        4.50765                    488440.14
3616248.03        4.20362
         488490.14    3616248.03        3.99780                    488540.14
3616248.03        3.80641
         488590.14    3616248.03        3.62821                    487690.14
3616298.03       12.25351
         487740.14    3616298.03       11.27421                    487790.14
3616298.03       10.32960
         487840.14    3616298.03        9.56574                    487890.14
3616298.03        8.90518
         487940.14    3616298.03        8.23426                    487990.14
3616298.03        7.62162
         488040.14    3616298.03        7.10666                    488090.14
3616298.03        6.64174
         488140.14    3616298.03        6.06555                    488190.14
3616298.03        5.56344
         488240.14    3616298.03        5.25764                    488290.14
3616298.03        5.07536
         488340.14    3616298.03        4.88357                    488390.14
3616298.03        4.55723
         488440.14    3616298.03        4.29982                    488490.14
3616298.03        4.08105
         488540.14    3616298.03        3.87861                    488590.14
3616298.03        3.69097
         487690.14    3616348.03       13.25888                    487740.14
3616348.03       12.03137
         487790.14    3616348.03       11.00795                    487840.14
3616348.03       10.10313
         487890.14    3616348.03        9.30217                    487940.14
3616348.03        8.59145
         487990.14    3616348.03        7.95824                    488040.14
3616348.03        7.39224
         488090.14    3616348.03        6.88474                    488140.14
3616348.03        6.28147
         488190.14    3616348.03        5.74635                    488240.14
3616348.03        5.41231
         488290.14    3616348.03        5.20331                    488340.14
3616348.03        4.90507
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         488390.14    3616348.03        4.63199                      488440.14
3616348.03        4.38145
         488490.14    3616348.03        4.15110                      488540.14
3616348.03        3.93889
         488590.14    3616348.03        3.74301                      487640.14
3616398.03       15.91284
         487690.14    3616398.03       14.24877                      487740.14
3616398.03       12.88282
         487790.14    3616398.03       11.69718                      487840.14
3616398.03       10.66658
🡅 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 105
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                             *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         487890.14    3616398.03        9.76660                      487940.14
3616398.03        8.97646
         487990.14    3616398.03        8.27894                      488040.14
3616398.03        7.66034
         488090.14    3616398.03        7.10970                      488140.14
3616398.03        6.46901
         488190.14    3616398.03        5.90177                      488240.14
3616398.03        5.54186
         488290.14    3616398.03        5.31281                      488340.14
3616398.03        4.99719
         488390.14    3616398.03        4.70976                      488440.14
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3616398.03 4.44732
488490.14 3616398.03 4.20709 488540.14
3616398.03 3.98665
488590.14 3616398.03 3.78388 487590.14
3616448.03 19.66796
487640.14 3616448.03 17.25630 487690.14
3616448.03 15.33829
487740.14 3616448.03 13.73638 487790.14
3616448.03 12.37454
487840.14 3616448.03 11.20973 487890.14
3616448.03 10.20557
487940.14 3616448.03 9.33344 487990.14
3616448.03 8.57094
488040.14 3616448.03 7.90041 488090.14
3616448.03 7.30801
488140.14 3616448.03 6.62190 488190.14
3616448.03 6.02502
488240.14 3616448.03 5.48606 488290.14
3616448.03 5.26936
488340.14 3616448.03 4.94925 488390.14
3616448.03 4.76853
488440.14 3616448.03 4.49642 488490.14
3616448.03 4.24826
488540.14 3616448.03 4.02128 488590.14
3616448.03 3.73060
487540.14 3616498.03 24.45027 487590.14
3616498.03 21.58318
487640.14 3616498.03 18.65840 487690.14
3616498.03 16.41273
487740.14 3616498.03 14.55729 487790.14
3616498.03 13.01031
487840.14 3616498.03 11.70681 487890.14
3616498.03 10.59740
487940.14 3616498.03 9.64472 487990.14
3616498.03 8.82014
488040.14 3616498.03 8.10133 488090.14
3616498.03 7.36115
488140.14 3616498.03 6.73198 488190.14
3616498.03 5.98599
488240.14 3616498.03 5.64376 488290.14
3616498.03 5.35080
488340.14 3616498.03 4.94941 488390.14
3616498.03 4.65386
488440.14 3616498.03 4.47164 488490.14
3616498.03 4.16704
488540.14 3616498.03 3.91929 488590.14
3616498.03 3.71543
484613.02 3614429.89 1.01719 484663.02
3614429.89 1.03438
484713.02 3614429.89 1.05283 484763.02

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3614429.89        1.07170
         484813.02    3614429.89        1.09099                        484863.02
3614429.89        1.11072
         484913.02    3614429.89        1.13563                        484963.02
3614429.89        1.15557
         484563.02    3614479.89        1.01450                        484613.02
3614479.89        1.03221
         484663.02    3614479.89        1.05087                        484713.02
3614479.89        1.06994
         484763.02    3614479.89        1.08946                        484813.02
3614479.89        1.10942
         484863.02    3614479.89        1.12984                        484913.02
3614479.89        1.15571
         484963.02    3614479.89        1.17627                        484513.02
3614529.89        1.01152
         484563.02    3614529.89        1.02945                        484613.02
3614529.89        1.04831
         484663.02    3614529.89        1.06760                        484713.02
3614529.89        1.08733
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 106
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         484763.02    3614529.89        1.10753                        484813.02
3614529.89        1.12819
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3614529.89        1.17610
         484963.02    3614529.89        1.19741                    484463.02
3614579.89        1.00831
         484513.02    3614579.89        1.02607                    484563.02
3614579.89        1.04512
         484613.02    3614579.89        1.06462                    484663.02
3614579.89        1.08457
         484713.02    3614579.89        1.10499                    484763.02
3614579.89        1.12589
         484813.02    3614579.89        1.14729                    484863.02
3614579.89        1.16919
         484913.02    3614579.89        1.19568                    484963.02
3614579.89        1.21900
         484413.02    3614629.89        1.00389                    484463.02
3614629.89        1.02207
         484513.02    3614629.89        1.04129                    484563.02
3614629.89        1.06098
         484613.02    3614629.89        1.08113                    484663.02
3614629.89        1.10177
         484713.02    3614629.89        1.12291                    484763.02
3614629.89        1.14455
         484813.02    3614629.89        1.16671                    484863.02
3614629.89        1.18941
         484913.02    3614629.89        1.21420                    484963.02
3614629.89        1.24150
         484413.02    3614679.89        1.01757                    484463.02
3614679.89        1.03682
         484513.02    3614679.89        1.05667                    484563.02
3614679.89        1.07701
         484613.02    3614679.89        1.09784                    484663.02
3614679.89        1.11919
         484713.02    3614679.89        1.14107                    484763.02
3614679.89        1.16348
         484813.02    3614679.89        1.18644                    484863.02
3614679.89        1.20998
         484913.02    3614679.89        1.23410                    484963.02
3614679.89        1.26327
         484363.02    3614729.89        1.01220                    484413.02
3614729.89        1.03170
         484463.02    3614729.89        1.05169                    484513.02
3614729.89        1.07219
         484563.02    3614729.89        1.09320                    484613.02
3614729.89        1.11474
         484663.02    3614729.89        1.13682                    484713.02
3614729.89        1.15946
         484763.02    3614729.89        1.18267                    484813.02
3614729.89        1.20647
         484863.02    3614729.89        1.23088                    484913.02
3614729.89        1.25590
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         484963.02    3614729.89        1.28615                       484313.02
3614779.89        1.00634
         484363.02    3614779.89        1.02595                       484413.02
3614779.89        1.04606
         484463.02    3614779.89        1.06668                       484513.02
3614779.89        1.08784
         484563.02    3614779.89        1.10954                       484613.02
3614779.89        1.13181
         484663.02    3614779.89        1.15465                       484713.02
3614779.89        1.17808
         484763.02    3614779.89        1.20212                       484813.02
3614779.89        1.22679
         484863.02    3614779.89        1.25210                       484913.02
3614779.89        1.27806
         484963.02    3614779.89        1.30943                       484263.02
3614829.89        1.00003
         484313.02    3614829.89        1.01958                       484363.02
3614829.89        1.03977
         484413.02    3614829.89        1.06050                       484463.02
3614829.89        1.08177
         484513.02    3614829.89        1.10361                       484563.02
3614829.89        1.12602
         484613.02    3614829.89        1.14904                       484663.02
3614829.89        1.17266
         484713.02    3614829.89        1.19691                       484763.02
3614829.89        1.22181
         484813.02    3614829.89        1.24738                       484863.02
3614829.89        1.27362
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE 107
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                   INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
484913.02	3614829.89	1.30057	484963.02	3614829.89	1.33412
484213.02	3614879.89	0.99291	484263.02	3614879.89	1.01262
484313.02	3614879.89	1.03286	484363.02	3614879.89	1.05365
484413.02	3614879.89	1.07501	484463.02	3614879.89	1.09695
484513.02	3614879.89	1.11949	484563.02	3614879.89	1.14263
484613.02	3614879.89	1.16641	484663.02	3614879.89	1.19084
484713.02	3614879.89	1.21594	484763.02	3614879.89	1.24173
484813.02	3614879.89	1.26822	484863.02	3614879.89	1.29544
484913.02	3614879.89	1.32341	484963.02	3614879.89	1.35717
484163.02	3614929.89	0.98671	484213.02	3614929.89	1.00511
484263.02	3614929.89	1.02536	484313.02	3614929.89	1.04618
484363.02	3614929.89	1.06759	484413.02	3614929.89	1.08959
484463.02	3614929.89	1.11221	484513.02	3614929.89	1.13546
484563.02	3614929.89	1.15936	484613.02	3614929.89	1.18393
484663.02	3614929.89	1.20919	484713.02	3614929.89	1.23516
484763.02	3614929.89	1.26185	484813.02	3614929.89	1.28931
484863.02	3614929.89	1.31754	484913.02	3614929.89	1.34656
484963.02	3614929.89	1.37704	485013.02	3614929.89	1.41364
484113.02	3614979.89	0.97800	484163.02	3614979.89	0.99709
484213.02	3614979.89	1.01732	484263.02	3614979.89	1.03813
484313.02	3614979.89	1.05954	484363.02	3614979.89	1.08156
484413.02	3614979.89	1.10422	484463.02		

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3614979.89        1.12753
         484513.02    3614979.89        1.15151                        484563.02
3614979.89        1.17618
         484613.02    3614979.89        1.20156                        484663.02
3614979.89        1.22767
         484713.02    3614979.89        1.25454                        484763.02
3614979.89        1.28218
         484813.02    3614979.89        1.31062                        484863.02
3614979.89        1.33989
         484913.02    3614979.89        1.37001                        484963.02
3614979.89        1.40167
         485013.02    3614979.89        1.43967                        484113.02
3615029.89        0.98861
         484163.02    3615029.89        1.00878                        484213.02
3615029.89        1.02954
         484263.02    3615029.89        1.05091                        484313.02
3615029.89        1.07291
         484363.02    3615029.89        1.09557                        484413.02
3615029.89        1.11889
         484463.02    3615029.89        1.14290                        484513.02
3615029.89        1.16762
         484563.02    3615029.89        1.19308                        484613.02
3615029.89        1.21929
         484663.02    3615029.89        1.24628                        484713.02
3615029.89        1.27407
         484763.02    3615029.89        1.30268                        484813.02
3615029.89        1.33215
         484863.02    3615029.89        1.36249                        484913.02
3615029.89        1.39375
         484963.02    3615029.89        1.42594                        485013.02
3615029.89        1.46131
         485063.02    3615029.89        1.50061                        484113.02
3615079.89        0.99979
         484163.02    3615079.89        1.02047                        484213.02
3615079.89        1.04176
         484263.02    3615079.89        1.06370                        484313.02
3615079.89        1.08630
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE 108
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                VOL7        , VOL8        , VOL9        , VOL10       , VOL11
```

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 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         484363.02    3615079.89        1.10959                       484413.02
3615079.89        1.13358
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3615079.89        1.18379
         484563.02    3615079.89        1.21005                       484613.02
3615079.89        1.23711
         484663.02    3615079.89        1.26499                       484713.02
3615079.89        1.29372
         484763.02    3615079.89        1.32334                       484813.02
3615079.89        1.35386
         484863.02    3615079.89        1.38532                       484913.02
3615079.89        1.41774
         484963.02    3615079.89        1.45117                       485013.02
3615079.89        1.48563
         485063.02    3615079.89        1.52337                       485113.02
3615079.89        1.56511
         484113.02    3615129.89        1.01096                       484163.02
3615129.89        1.03214
         484213.02    3615129.89        1.05397                       484263.02
3615129.89        1.07648
         484313.02    3615129.89        1.09969                       484363.02
3615129.89        1.12362
         484413.02    3615129.89        1.14830                       484463.02
3615129.89        1.17375
         484513.02    3615129.89        1.20000                       484563.02
3615129.89        1.22707
         484613.02    3615129.89        1.25499                       484663.02
3615129.89        1.28379
         484713.02    3615129.89        1.31349                       484763.02
3615129.89        1.34413
         484813.02    3615129.89        1.37573                       484863.02
3615129.89        1.40834
         484913.02    3615129.89        1.44197                       484963.02
3615129.89        1.47668
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         485013.02    3615129.89        1.51249                        485063.02
3615129.89        1.54944
         485113.02    3615129.89        1.58972                        485163.02
3615129.89        1.63500
         484113.02    3615179.89        1.02211                        484163.02
3615179.89        1.04380
         484213.02    3615179.89        1.06617                        484263.02
3615179.89        1.08926
         484313.02    3615179.89        1.11307                        484363.02
3615179.89        1.13765
         484413.02    3615179.89        1.16302                        484463.02
3615179.89        1.18920
         484513.02    3615179.89        1.21622                        484563.02
3615179.89        1.24412
         484613.02    3615179.89        1.27292                        484663.02
3615179.89        1.30265
         484713.02    3615179.89        1.33334                        484763.02
3615179.89        1.36503
         484813.02    3615179.89        1.39775                        484863.02
3615179.89        1.43153
         484913.02    3615179.89        1.46642                        484963.02
3615179.89        1.50244
         485013.02    3615179.89        1.53965                        485063.02
3615179.89        1.57808
         485113.02    3615179.89        1.61778                        485163.02
3615179.89        1.66151
         485213.02    3615179.89        1.70834                        484113.02
3615229.89        1.03322
         484163.02    3615229.89        1.05543                        484213.02
3615229.89        1.07835
         484263.02    3615229.89        1.10240                        484313.02
3615229.89        1.12692
         484363.02    3615229.89        1.15568                        484413.02
3615229.89        1.18188
         484463.02    3615229.89        1.20895                        484513.02
3615229.89        1.23691
         484563.02    3615229.89        1.26580                        484613.02
3615229.89        1.29507
         484663.02    3615229.89        1.32567                        484713.02
3615229.89        1.35473
         484763.02    3615229.89        1.38638                        484813.02
3615229.89        1.41988
         484863.02    3615229.89        1.45487                        484913.02
3615229.89        1.49104
         484963.02    3615229.89        1.52843                        485013.02
3615229.89        1.56708
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONSTRUC ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL5 , VOL6 ,
VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 ,
VOL15 , VOL16 , VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 ,
VOL23 , VOL24 , VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
485063.02	3615229.89	1.60704	485113.02	3615229.89	1.64837
485163.02	3615229.89	1.69111	485213.02	3615229.89	1.73531
485263.02	3615229.89	1.78805	484113.02	3615279.89	1.04430
484163.02	3615279.89	1.06702	484213.02	3615279.89	1.09301
484263.02	3615279.89	1.11969	484313.02	3615279.89	1.14465
484613.02	3615279.89	1.31515	484663.02	3615279.89	1.34470
484713.02	3615279.89	1.37758	484763.02	3615279.89	1.40970
484813.02	3615279.89	1.44210	484863.02	3615279.89	1.47833
484913.02	3615279.89	1.51582	484963.02	3615279.89	1.55461
485013.02	3615279.89	1.59475	485063.02	3615279.89	1.63630
485113.02	3615279.89	1.67931	485163.02	3615279.89	1.72383
485213.02	3615279.89	1.76993	485263.02	3615279.89	1.81790
485313.02	3615279.89	1.87494	484113.02		

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3615329.89        1.05650
         484163.02    3615329.89        1.08325                    484213.02
3615329.89        1.10660
         484663.02    3615329.89        1.36611                    484713.02
3615329.89        1.39799
         484763.02    3615329.89        1.43280                    484813.02
3615329.89        1.46438
         484863.02    3615329.89        1.50187                    484913.02
3615329.89        1.54071
         484963.02    3615329.89        1.58094                    485013.02
3615329.89        1.62262
         485063.02    3615329.89        1.66580                    485113.02
3615329.89        1.71055
         485163.02    3615329.89        1.75693                    485213.02
3615329.89        1.80500
         485263.02    3615329.89        1.85484                    485313.02
3615329.89        1.90652
         485363.02    3615329.89        1.96439                    484113.02
3615379.89        1.07060
         484163.02    3615379.89        1.09398                    484713.02
3615379.89        1.42028
         484763.02    3615379.89        1.45429                    484813.02
3615379.89        1.49116
         484863.02    3615379.89        1.52565                    484913.02
3615379.89        1.56569
         484963.02    3615379.89        1.60739                    485013.02
3615379.89        1.65065
         485063.02    3615379.89        1.69551                    485113.02
3615379.89        1.74206
         485163.02    3615379.89        1.79036                    485213.02
3615379.89        1.84048
         485263.02    3615379.89        1.89251                    485313.02
3615379.89        1.94652
         485363.02    3615379.89        2.00260                    485413.02
3615379.89        2.06185
         484763.02    3615429.89        1.47790                    484813.02
3615429.89        1.51406
         484863.02    3615429.89        1.55363                    484913.02
3615429.89        1.59072
         484963.02    3615429.89        1.63393                    485013.02
3615429.89        1.67880
         485063.02    3615429.89        1.72539                    485113.02
3615429.89        1.77379
         485163.02    3615429.89        1.82407                    485213.02
3615429.89        1.87631
         485263.02    3615429.89        1.93061                    485313.02
3615429.89        1.98705
         485363.02    3615429.89        2.04572                    485413.02
3615429.89        2.10673
         485463.02    3615429.89        2.17178                    485513.02
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3615429.89        2.25052
         484813.02    3615479.89        1.53924                       484863.02
3615479.89        1.58028
         484913.02    3615479.89        1.61735                       484963.02
3615479.89        1.66051
🡅 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE 110
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         485013.02    3615479.89        1.70702                       485063.02
3615479.89        1.75539
         485113.02    3615479.89        1.80569                       485163.02
3615479.89        1.85801
         485213.02    3615479.89        1.91244                       485263.02
3615479.89        1.96909
         485313.02    3615479.89        2.02805                       485363.02
3615479.89        2.08943
         485413.02    3615479.89        2.15333                       485463.02
3615479.89        2.21989
         485513.02    3615479.89        2.30407                       485563.02
3615479.89        2.37419
         484863.02    3615529.89        1.60338                       484913.02
3615529.89        1.64923
         484963.02    3615529.89        1.68786                       485013.02
3615529.89        1.73529
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        485063.02    3615529.89        1.78546                    485113.02
3615529.89        1.83770
        485163.02    3615529.89        1.89212                    485213.02
3615529.89        1.94881
        485263.02    3615529.89        2.00788                    485313.02
3615529.89        2.06945
        485363.02    3615529.89        2.13364                    485413.02
3615529.89        2.20056
        485463.02    3615529.89        2.27037                    485513.02
3615529.89        2.35863
        484913.02    3615579.89        1.67364                    484963.02
3615579.89        1.72267
        485013.02    3615579.89        1.76887                    485063.02
3615579.89        1.82112
        485113.02    3615579.89        1.86978                    485163.02
3615579.89        1.92634
        485213.02    3615579.89        1.98534                    485263.02
3615579.89        2.04691
        485313.02    3615579.89        2.11118                    485363.02
3615579.89        2.17828
        485413.02    3615579.89        2.24834                    485463.02
3615579.89        2.32153
        484963.02    3615629.89        1.74846                    485013.02
3615629.89        1.80141
        485063.02    3615629.89        1.85253                    485113.02
3615629.89        1.90910
        485163.02    3615629.89        1.96524                    485213.02
3615629.89        2.02198
        485263.02    3615629.89        2.08612                    485313.02
3615629.89        2.15316
        485363.02    3615629.89        2.22326                    485413.02
3615629.89        2.29725
        485013.02    3615679.89        1.82846                    485063.02
3615679.89        1.88597
        485113.02    3615679.89        1.94133                    485163.02
3615679.89        2.00266
        485213.02    3615679.89        2.06389                    485263.02
3615679.89        2.12541
        485313.02    3615679.89        2.19530                    485363.02
3615679.89        2.27514
        485413.02    3615679.89        2.35878                    485063.02
3615729.89        1.91508
        485113.02    3615729.89        1.97729                    485163.02
3615729.89        2.03806
        485213.02    3615729.89        2.10370                    485263.02
3615729.89        2.17204
        485313.02    3615729.89        2.24523                    485363.02
3615729.89        2.32758
        485113.02    3615779.89        2.00746                    485163.02
3615779.89        2.07520
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         485213.02    3615779.89        2.14460                      485263.02
3615779.89        2.21688
         485313.02    3615779.89        2.29252                      485163.02
3615829.89        2.10747
         485213.02    3615829.89        2.17929                      485263.02
3615829.89        2.25481
         485213.02    3615879.89        2.21548                      485552.29
3616096.26        3.10143
         486018.22    3615677.92        3.64765                      486003.19
3616494.55        5.85609
         486759.70    3615938.44        8.69512                      486118.42
3616108.78        5.43351
         486519.22    3615657.88        5.17258                      487082.35
3618053.22        0.56725
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 111
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         487132.24    3618053.22        0.57934                      487182.13
3618053.22        0.59490
         487232.02    3618053.22        0.58499                      487281.91
3618053.22        0.59842
         486424.80    3617998.65        1.41524                      486474.69
3617998.65        1.30847
         486524.58    3617998.65        1.20490                      486574.47
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3617998.65 1.02421
486624.36 3617998.65 0.92403 486674.25
3617998.65 0.88798
486724.14 3617998.65 0.80798 486774.03
3617998.65 0.74916
486823.92 3617998.65 0.71230 486873.81
3617998.65 0.65992
486923.70 3617998.65 0.60458 486973.59
3617998.65 0.61592
487023.48 3617998.65 0.62674 487082.35
3618103.22 0.51650
487132.24 3618103.22 0.50339 487182.13
3618103.22 0.51987
486374.91 3618048.65 1.34185 486424.80
3618048.65 1.25827
486474.69 3618048.65 1.15827 486524.58
3618048.65 1.06537
486574.47 3618048.65 0.99499 486624.36
3618048.65 0.94832
486674.25 3618048.65 0.91458 486724.14
3618048.65 0.78928
486774.03 3618048.65 0.68595 486823.92
3618048.65 0.56610
486873.81 3618048.65 0.59027 486923.70
3618048.65 0.57338
486973.59 3618048.65 0.55592 487023.48
3618048.65 0.57846
487082.35 3618153.22 0.46049 487132.24
3618153.22 0.46290
486325.02 3618098.65 1.25424 486374.91
3618098.65 1.18574
486424.80 3618098.65 1.11137 486474.69
3618098.65 1.02828
486524.58 3618098.65 0.95089 486574.47
3618098.65 0.88909
486624.36 3618098.65 0.84346 486674.25
3618098.65 0.83247
486724.14 3618098.65 0.82627 486774.03
3618098.65 0.66534
486823.92 3618098.65 0.55151 486873.81
3618098.65 0.53811
486923.70 3618098.65 0.55809 486973.59
3618098.65 0.54000
487023.48 3618098.65 0.53178 487082.35
3618203.22 0.43640
486275.13 3618148.65 1.13689 486325.02
3618148.65 1.12014
486374.91 3618148.65 1.04521 486424.80
3618148.65 0.97575
486474.69 3618148.65 0.91391 486524.58

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3618148.65        0.85608
         486574.47    3618148.65        0.83444                        486624.36
3618148.65        0.85922
         486674.25    3618148.65        0.88736                        486724.14
3618148.65        0.87240
         486774.03    3618148.65        0.70969                        486823.92
3618148.65        0.58885
         486873.81    3618148.65        0.57058                        486923.70
3618148.65        0.54398
         486973.59    3618148.65        0.52538                        487023.48
3618148.65        0.51648
         486225.24    3618198.65        1.14838                        486275.13
3618198.65        1.08303
         486325.02    3618198.65        0.94852                        486374.91
3618198.65        0.89927
         486424.80    3618198.65        0.84013                        486474.69
3618198.65        0.81466
         486524.58    3618198.65        0.79483                        486574.47
3618198.65        0.81560
         486624.36    3618198.65        0.83495                        486674.25
3618198.65        0.77865
         486724.14    3618198.65        0.87361                        486774.03
3618198.65        0.71848
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 112
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
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         486524.58    3618348.65        0.74461                      486574.47
3618348.65        0.76328
         486624.36    3618348.65        0.78456                      486674.25
3618348.65        0.73033
         486724.14    3618348.65        0.69853                      486774.03
3618348.65        0.67129
         486823.92    3618348.65        0.65166                      486873.81
3618348.65        0.57818
         486125.46    3618398.65        1.12531                      486175.35
3618398.65        0.96268
         486225.24    3618398.65        0.67964                      486275.13
3618398.65        0.66394
         486325.02    3618398.65        0.67494                      486374.91
3618398.65        0.68663
         486424.80    3618398.65        0.69928                      486474.69
3618398.65        0.71326
         486524.58    3618398.65        0.72903                      486574.47
3618398.65        0.74707
         486624.36    3618398.65        0.76759                      486674.25
3618398.65        0.76192
         486724.14    3618398.65        0.73835                      486774.03
3618398.65        0.65795
         486823.92    3618398.65        0.63863                      486125.46
3618448.65        1.15481
         486175.35    3618448.65        0.84662                      486225.24
3618448.65        0.61459
         486275.13    3618448.65        0.62421                      486325.02
3618448.65        0.70630
         486374.91    3618448.65        0.74373                      486424.80
3618448.65        0.75710
         486474.69    3618448.65        0.74920                      486524.58
3618448.65        0.71397
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE 113
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
486574.47	3618448.65	0.73142	486624.36	3618448.65	0.75121
486674.25	3618448.65	0.77312	486724.14	3618448.65	0.73504
486774.03	3618448.65	0.71065	486125.46	3618498.65	1.03207
486175.35	3618498.65	0.56867	486225.24	3618498.65	0.45601
486275.13	3618498.65	0.78221	486325.02	3618498.65	0.87737
486374.91	3618498.65	0.80724	486424.80	3618498.65	0.75683
486474.69	3618498.65	0.75492	486524.58	3618498.65	0.75826
486574.47	3618498.65	0.72259	486624.36	3618498.65	0.73541
486674.25	3618498.65	0.75646	486125.46	3618548.65	1.00674
486175.35	3618548.65	0.43949	486225.24	3618548.65	0.75405
486275.13	3618548.65	1.02849	486325.02	3618548.65	0.96710
486374.91	3618548.65	0.84539	486424.80	3618548.65	0.79725
486474.69	3618548.65	0.73866	486524.58	3618548.65	0.75401
486574.47	3618548.65	0.72618	486624.36	3618548.65	0.72012
485782.13	3617697.10	3.22675	486117.99	3618113.14	1.54072
487046.44	3616930.35	51.94986	487001.92	3616865.64	60.77337
487027.85	3616812.50	59.79519	487059.32	3616825.09	62.19781
487097.29	3616749.11	66.58789	487391.33	3616829.05	51.40152
487479.92	3616731.27	50.17046	487502.82	3616688.63	40.00684
487412.35	3616681.88	56.82369	487364.99		

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3616592.30       56.66881
         487332.84    3616532.76       53.04259                       487293.41
3616472.19       46.79746
         487247.98    3616421.76       38.59879                       487197.40
3616436.07       42.05865
         487083.85    3616471.34       44.82279                       487021.64
3616518.54       47.96618
         486926.81    3616571.99       44.59421                       486895.57
3616630.03       46.30286
         486821.36    3616675.48       43.98651                       486753.38
3616756.79       39.12124
         486732.11    3616765.07       36.59404                       486714.34
3616771.99       34.30051
         486614.05    3616565.34       18.65505                       486419.27
3616678.32       12.83164
         486594.81    3616964.16       22.53824                       486605.37
3616981.34       22.99524
         486707.77    3616937.26       35.18164                       486905.55
3617015.39       45.72186
         487046.44    3616930.34       55.14823

 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***       11:59:01

                                  PAGE 114
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                    *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
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```
         487520.59    3616550.48       29.04200                    487570.59
3616550.48       25.15107
         487620.59    3616550.48       21.38108                    487670.59
3616550.48       18.48411
         487720.59    3616550.48       16.16451                    487770.59
3616550.48       14.27840
         487820.59    3616550.48       12.72245                    487870.59
3616550.48       11.42269
         487920.59    3616550.48       10.32452                    487970.59
3616550.48        9.38727
         488020.59    3616550.48        8.57998                    488070.59
3616550.48        7.87910
         488120.59    3616550.48        7.08101                    488170.59
3616550.48        6.33669
         488220.59    3616550.48        5.86445                    488270.59
3616550.48        5.71156
         488320.59    3616550.48        5.12391                    488370.59
3616550.48        4.80925
         488420.59    3616550.48        4.52504                    488470.59
3616550.48        4.26735
         488520.59    3616550.48        4.03287                    488570.59
3616550.48        3.81877
         488620.59    3616550.48        3.62268                    487520.59
3616600.48       32.45402
         487570.59    3616600.48       27.39136                    487620.59
3616600.48       22.96553
         487670.59    3616600.48       19.58619                    487720.59
3616600.48       16.94812
         487770.59    3616600.48       14.84684                    487820.59
3616600.48       13.14321
         487870.59    3616600.48       11.74029                    487920.59
3616600.48       10.56876
         487970.59    3616600.48        9.55947                    488020.59
3616600.48        8.68247
         488070.59    3616600.48        7.95768                    488120.59
3616600.48        7.32730
         488170.59    3616600.48        6.53436                    488220.59
3616600.48        5.86875
         488270.59    3616600.48        5.71910                    488320.59
3616600.48        5.12014
         488370.59    3616600.48        4.80314                    488420.59
3616600.48        4.51731
         488470.59    3616600.48        4.25852                    488520.59
3616600.48        4.02332
         488570.59    3616600.48        3.80880                    488620.59
3616600.48        3.61248
         487970.59    3616650.48        9.65304                    488020.59
3616650.48        8.71898
         488070.59    3616650.48        7.98277                    488120.59
3616650.48        7.34441
```

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         488170.59    3616650.48        6.60124                      488220.59
3616650.48        6.06453
         488270.59    3616650.48        5.86121                      488320.59
3616650.48        5.27155
         488370.59    3616650.48        4.77732                      488420.59
3616650.48        4.43158
         488470.59    3616650.48        4.23464                      488520.59
3616650.48        4.00049
         488570.59    3616650.48        3.78704                      488620.59
3616650.48        3.59177
         487520.59    3616700.48       41.01660                      487570.59
3616700.48       30.04197
         487620.59    3616700.48       24.23719                      487670.59
3616700.48       20.24623
         487720.59    3616700.48       17.30616                      487770.59
3616700.48       15.04547
         487820.59    3616700.48       13.25352                      487870.59
3616700.48       11.79983
         487920.59    3616700.48       10.59848                      487970.59
3616700.48        9.63811
         488020.59    3616700.48        8.69185                      488070.59
3616700.48        7.95690
         488120.59    3616700.48        7.32018                      488170.59
3616700.48        6.76406
         488220.59    3616700.48        6.27496                      488270.59
3616700.48        5.84206
         488320.59    3616700.48        5.23561                      488370.59
3616700.48        4.74418
         488420.59    3616700.48        4.45390                      488470.59
3616700.48        4.19699
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 115
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                   HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                   HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                   HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
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***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
488520.59	3616700.48	3.94042	488570.59	3616700.48	3.73098
488620.59	3616700.48	3.56253	487470.59	3616750.48	56.87503
487520.59	3616750.48	40.03362	487570.59	3616750.48	30.17975
487620.59	3616750.48	24.13273	487670.59	3616750.48	20.06051
487720.59	3616750.48	17.10349	487770.59	3616750.48	14.85034
487820.59	3616750.48	13.07451	487870.59	3616750.48	11.63905
487920.59	3616750.48	10.45536	487970.59	3616750.48	9.45810
488020.59	3616750.48	8.60843	488070.59	3616750.48	7.88579
488120.59	3616750.48	7.25906	488170.59	3616750.48	6.71113
488220.59	3616750.48	6.22879	488270.59	3616750.48	5.80153
488320.59	3616750.48	5.18365	488370.59	3616750.48	4.69199
488420.59	3616750.48	4.40587	488470.59	3616750.48	4.15257
488520.59	3616750.48	3.89315	488570.59	3616750.48	3.68709
488620.59	3616750.48	3.52719	487120.59	3616800.48	67.96868
487170.59	3616800.48	67.35134	487220.59	3616800.48	68.61369
487270.59	3616800.48	69.98632	487420.59	3616800.48	58.55211
487470.59	3616800.48	47.55504	487520.59	3616800.48	35.46176
487570.59	3616800.48	27.56817	487620.59	3616800.48	22.97028
487670.59	3616800.48	19.29959	487720.59	3616800.48	16.55911
487770.59	3616800.48	14.44173	487820.59	3616800.48	12.75725
487870.59	3616800.48	11.38642	487920.59		

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3616800.48       10.25024
         487970.59    3616800.48        9.27967                       488020.59
3616800.48        8.19441
         488070.59    3616800.48        7.41551                       488120.59
3616800.48        6.93020
         488170.59    3616800.48        6.41369                       488220.59
3616800.48        5.95767
         488270.59    3616800.48        5.73497                       488320.59
3616800.48        4.92894
         488370.59    3616800.48        4.50657                       488420.59
3616800.48        4.24271
         488470.59    3616800.48        4.00366                       488520.59
3616800.48        3.78624
         488570.59    3616800.48        3.64380                       488620.59
3616800.48        3.40858
         486470.59    3616850.48       15.92587                       486520.59
3616850.48       18.55441
         487020.59    3616850.48       70.57932                       487070.59
3616850.48       63.68581
         487120.59    3616850.48       57.78616                       487170.59
3616850.48       54.86286
         487220.59    3616850.48       53.68601                       487270.59
3616850.48       53.16478
         487320.59    3616850.48       52.59225                       487370.59
3616850.48       50.78161
         487420.59    3616850.48       45.62403                       487470.59
3616850.48       37.74232
         487520.59    3616850.48       30.72830                       487570.59
3616850.48       25.20418
         487620.59    3616850.48       21.31207                       487670.59
3616850.48       18.39224
         487720.59    3616850.48       15.91889                       487770.59
3616850.48       13.96491
         487820.59    3616850.48       12.38874                       487870.59
3616850.48       11.09297
         487920.59    3616850.48        9.65068                       487970.59
3616850.48        8.68285
         488020.59    3616850.48        7.93192                       488070.59
3616850.48        7.28506
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 116
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
```

```
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         488120.59    3616850.48        6.72240                      488170.59
3616850.48        6.17357
         488220.59    3616850.48        5.50873                      488270.59
3616850.48        5.47409
         488320.59    3616850.48        4.63738                      488370.59
3616850.48        4.31638
         488420.59    3616850.48        4.06723                      488470.59
3616850.48        3.84477
         488520.59    3616850.48        3.66864                      488570.59
3616850.48        3.46211
         488620.59    3616850.48        3.44708                      486370.59
3616900.48       12.14277
         486420.59    3616900.48       13.77885                      486470.59
3616900.48       15.87274
         486520.59    3616900.48       18.65342                      487070.59
3616900.48       55.55717
         487120.59    3616900.48       49.07097                      487170.59
3616900.48       43.32738
         487220.59    3616900.48       41.79226                      487270.59
3616900.48       41.04746
         487320.59    3616900.48       41.26363                      487370.59
3616900.48       38.35934
         487420.59    3616900.48       35.20591                      487470.59
3616900.48       31.06714
         487520.59    3616900.48       26.73854                      487570.59
3616900.48       22.86664
         487620.59    3616900.48       19.89010                      487670.59
3616900.48       17.41752
         487720.59    3616900.48       15.22915                      487770.59
3616900.48       13.45044
         487820.59    3616900.48       11.76764                      487870.59
3616900.48       10.42787
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         487920.59    3616900.48        9.35428                      487970.59
3616900.48        8.50261
         488020.59    3616900.48        7.77527                      488070.59
3616900.48        7.14789
         488120.59    3616900.48        6.51410                      488170.59
3616900.48        5.85139
         488220.59    3616900.48        5.15513                      488270.59
3616900.48        5.15724
         488320.59    3616900.48        5.05321                      488370.59
3616900.48        4.25174
         488420.59    3616900.48        4.00801                      488470.59
3616900.48        3.79739
         488520.59    3616900.48        3.66841                      488570.59
3616900.48        3.56382
         488620.59    3616900.48        3.51227                      486170.59
3616950.48        7.94692
         486220.59    3616950.48        8.69733                      486370.59
3616950.48       11.90940
         486420.59    3616950.48       13.50837                      486470.59
3616950.48       15.59073
         486520.59    3616950.48       18.49971                      486570.59
3616950.48       23.35588
         486720.59    3616950.48       40.47075                      487020.59
3616950.48       54.45623
         487070.59    3616950.48       45.68165                      487120.59
3616950.48       39.81785
         487170.59    3616950.48       36.56700                      487220.59
3616950.48       34.78773
         487270.59    3616950.48       33.71335                      487320.59
3616950.48       32.58981
         487370.59    3616950.48       30.88965                      487420.59
3616950.48       28.53943
         487470.59    3616950.48       25.95350                      487520.59
3616950.48       23.47511
         487570.59    3616950.48       20.73126                      487620.59
3616950.48       18.65041
         487670.59    3616950.48       16.41067                      487720.59
3616950.48       14.31224
         487770.59    3616950.48       12.56689                      487820.59
3616950.48       11.23728
         487870.59    3616950.48        9.91405                      487920.59
3616950.48        8.96972
         487970.59    3616950.48        8.09409                      488020.59
3616950.48        7.30334
         488070.59    3616950.48        6.72002                      488120.59
3616950.48        6.21233
         488170.59    3616950.48        5.76124                      488220.59
3616950.48        4.81652
 ** *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                           *** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                           INCLUDING SOURCE(S):   HAUL0001   , HAUL0002
 , HAUL0003   , HAUL0004   , HAUL0005   ,
                HAUL0006   , HAUL0007   , HAUL0008   , HAUL0009   , HAUL0010
 , HAUL0011   , HAUL0012   , HAUL0013   ,
                HAUL0014   , HAUL0015   , HAUL0016   , HAUL0017   , HAUL0018
 , HAUL0019   , HAUL0020   , HAUL0021   ,
                HAUL0022   , HAUL0023   , HAUL0024   , HAUL0025   , HAUL0026
 , HAUL0027   , HAUL0028   , . . .   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

3617000.48 42.83648
487070.59 3617000.48 37.27897 487120.59
3617000.48 33.27062
487170.59 3617000.48 31.00191 487220.59
3617000.48 29.08794
487270.59 3617000.48 27.24884 487320.59
3617000.48 26.33780
487370.59 3617000.48 25.24415 487420.59
3617000.48 23.82186
487470.59 3617000.48 22.04264 487520.59
3617000.48 20.78903
487570.59 3617000.48 19.22607 487620.59
3617000.48 17.19451
487670.59 3617000.48 14.97256 487720.59
3617000.48 13.39798
487770.59 3617000.48 11.74718 487820.59
3617000.48 10.46472
487870.59 3617000.48 9.46105 487920.59
3617000.48 8.59101
487970.59 3617000.48 7.83611 488020.59
3617000.48 7.18056
488070.59 3617000.48 6.61017 488120.59
3617000.48 6.11204
488170.59 3617000.48 5.66353 488220.59
3617000.48 4.94662
488270.59 3617000.48 4.26532 488320.59
3617000.48 4.41123
488370.59 3617000.48 4.53185 488420.59
3617000.48 3.95430
488470.59 3617000.48 3.85931 488520.59
3617000.48 3.78718
488570.59 3617000.48 3.63403 488620.59
3617000.48 3.45287
486170.59 3617050.48 7.60054 486220.59
3617050.48 8.27915
486270.59 3617050.48 9.06678 486320.59
3617050.48 9.99224
486370.59 3617050.48 11.09824 486420.59
3617050.48 12.54687
486470.59 3617050.48 14.24554 486520.59
3617050.48 16.40660
486570.59 3617050.48 19.74930 486620.59
3617050.48 20.95608
486670.59 3617050.48 22.22877 486720.59
3617050.48 24.47392
486770.59 3617050.48 27.41003 486820.59
3617050.48 31.04793
486870.59 3617050.48 34.60363 486920.59
3617050.48 36.85979
486970.59 3617050.48 35.90635 487020.59

3617050.48   33.39087
         487070.59   3617050.48   29.54081   487120.59
3617050.48   27.19409
         487170.59   3617050.48   25.72092   487220.59
3617050.48   24.62795
         487270.59   3617050.48   23.75308   487320.59
3617050.48   22.94288

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                               *** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   HAUL0001   , HAUL0002
 , HAUL0003   , HAUL0004   , HAUL0005   ,
                 HAUL0006   , HAUL0007   , HAUL0008   , HAUL0009   , HAUL0010
 , HAUL0011   , HAUL0012   , HAUL0013   ,
                 HAUL0014   , HAUL0015   , HAUL0016   , HAUL0017   , HAUL0018
 , HAUL0019   , HAUL0020   , HAUL0021   ,
                 HAUL0022   , HAUL0023   , HAUL0024   , HAUL0025   , HAUL0026
 , HAUL0027   , HAUL0028   , . . .   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                     ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

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         488070.59    3617050.48        6.19593                    488120.59
3617050.48        5.99604
         488170.59    3617050.48        5.55748                    488220.59
3617050.48        4.30138
         488270.59    3617050.48        3.68941                    488320.59
3617050.48        4.07135
         488370.59    3617050.48        4.42623                    488420.59
3617050.48        4.20882
         488470.59    3617050.48        3.64158                    488520.59
3617050.48        3.70395
         488570.59    3617050.48        3.57974                    488620.59
3617050.48        3.40306
         486220.59    3617100.48        8.01618                    486270.59
3617100.48        8.74324
         486320.59    3617100.48        9.58616                    486370.59
3617100.48       10.57404
         486420.59    3617100.48       11.74531                    486470.59
3617100.48       13.28351
         486520.59    3617100.48       15.05230                    486570.59
3617100.48       16.94245
         486620.59    3617100.48       17.03483                    486670.59
3617100.48       18.02308
         486720.59    3617100.48       18.94956                    486770.59
3617100.48       20.83321
         486820.59    3617100.48       22.92211                    486870.59
3617100.48       24.80976
         486920.59    3617100.48       25.03501                    486970.59
3617100.48       25.16449
         487020.59    3617100.48       24.42525                    487070.59
3617100.48       23.50255
         487120.59    3617100.48       22.53351                    487170.59
3617100.48       20.73709
         487220.59    3617100.48       20.07402                    487270.59
3617100.48       19.42794
         487320.59    3617100.48       18.70976                    487370.59
3617100.48       17.99575
         487420.59    3617100.48       17.24260                    487470.59
3617100.48       16.43601
         487520.59    3617100.48       15.03134                    487570.59
3617100.48       13.51607
         487620.59    3617100.48       12.60596                    487670.59
3617100.48       11.54959
         487720.59    3617100.48       10.43085                    487770.59
3617100.48        9.59797
         487820.59    3617100.48        8.80015                    487870.59
3617100.48        8.05443
         487920.59    3617100.48        7.07982                    487970.59
3617100.48        6.21412
         488020.59    3617100.48        5.26921                    488070.59
3617100.48        4.14025
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3617150.48 15.51710
486820.59 3617150.48 16.78592 486870.59
3617150.48 17.95584
486920.59 3617150.48 18.35870 486970.59
3617150.48 18.89311
487020.59 3617150.48 19.24658 487070.59
3617150.48 19.07557
487120.59 3617150.48 18.44900 487170.59
3617150.48 16.30512
487220.59 3617150.48 16.58032 487270.59
3617150.48 16.04870
487320.59 3617150.48 14.36125 487370.59
3617150.48 13.98352
487420.59 3617150.48 13.60203 487470.59
3617150.48 13.19620
487520.59 3617150.48 11.17127 487570.59
3617150.48 10.43042
487620.59 3617150.48 8.99603 487670.59
3617150.48 8.48854
487720.59 3617150.48 7.97354 487770.59
3617150.48 6.85873
487820.59 3617150.48 6.39960 487870.59
3617150.48 5.51070
487920.59 3617150.48 4.78502 487970.59
3617150.48 4.20468
488020.59 3617150.48 3.69786 488070.59
3617150.48 3.23417
488120.59 3617150.48 3.05864 488170.59
3617150.48 2.80297
488220.59 3617150.48 2.54898 488270.59
3617150.48 2.62428
488320.59 3617150.48 3.20239 488370.59
3617150.48 3.17745
488420.59 3617150.48 3.71234 488470.59
3617150.48 3.88047
488520.59 3617150.48 3.46510 488570.59
3617150.48 2.62329
488620.59 3617150.48 2.17858 485970.59
3617200.48 5.26107
486020.59 3617200.48 5.60774 486220.59
3617200.48 7.42796
486270.59 3617200.48 8.02616 486320.59
3617200.48 8.69901
486370.59 3617200.48 9.50416 486420.59
3617200.48 10.35558
486470.59 3617200.48 11.33149 486520.59
3617200.48 10.91706
486570.59 3617200.48 10.95411 486620.59
3617200.48 11.59967
486670.59 3617200.48 11.60614 486720.59

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3617200.48       12.68446
         486770.59    3617200.48       11.68061                       486820.59
3617200.48       12.49405
         486870.59    3617200.48       13.29993                       486920.59
3617200.48       13.65333
         486970.59    3617200.48       12.82002                       487020.59
3617200.48       14.31555
         487070.59    3617200.48       14.09664                       487120.59
3617200.48       12.95306
         487170.59    3617200.48       12.79399                       487220.59
3617200.48       11.15057
         487270.59    3617200.48       10.93023                       487320.59
3617200.48        9.76532
         487370.59    3617200.48        9.61274                       487420.59
3617200.48        9.50710
         487470.59    3617200.48        9.56743                       487520.59
3617200.48        8.30702
         487570.59    3617200.48        6.74191                       487620.59
3617200.48        6.40226
         487670.59    3617200.48        6.13037                       487720.59
3617200.48        5.88122
         487770.59    3617200.48        5.21050                       487820.59
3617200.48        4.81397
         487870.59    3617200.48        4.56255                       487920.59
3617200.48        3.99768
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE 120
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                             *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
487970.59	3617200.48	3.65774	488020.59	3617200.48	3.14675
488070.59	3617200.48	2.92982	488120.59	3617200.48	2.76719
488170.59	3617200.48	2.43423	488220.59	3617200.48	2.20306
488270.59	3617200.48	2.36395	488320.59	3617200.48	3.01238
488370.59	3617200.48	2.78476	488420.59	3617200.48	3.19953
488470.59	3617200.48	3.83200	488520.59	3617200.48	3.48864
488570.59	3617200.48	2.64880	488620.59	3617200.48	1.95242
485920.59	3617250.48	4.82491	485970.59	3617250.48	5.12084
486020.59	3617250.48	5.44585	486070.59	3617250.48	5.80364
486170.59	3617250.48	6.63502	486220.59	3617250.48	7.11857
486270.59	3617250.48	7.65454	486320.59	3617250.48	8.27318
486370.59	3617250.48	8.03783	486420.59	3617250.48	9.67080
486470.59	3617250.48	9.36742	486520.59	3617250.48	9.14510
486570.59	3617250.48	9.56560	486620.59	3617250.48	9.50146
486670.59	3617250.48	9.33812	486720.59	3617250.48	9.53669
486770.59	3617250.48	9.49729	486820.59	3617250.48	9.98632
486870.59	3617250.48	9.99259	486920.59	3617250.48	9.90141
486970.59	3617250.48	10.20295	487020.59	3617250.48	10.39305
487070.59	3617250.48	10.25548	487120.59	3617250.48	9.30117
487170.59	3617250.48	8.50626	487220.59	3617250.48	8.21572
487270.59	3617250.48	8.14003	487320.59	3617250.48	6.83936
487370.59	3617250.48	6.84655	487420.59	3617250.48	7.09018
487470.59	3617250.48	7.12674	487520.59	3617250.48	6.56831

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         487570.59    3617250.48        5.73642                      487620.59
3617250.48        5.25139
         487670.59    3617250.48        4.99194                      487720.59
3617250.48        4.67693
         487770.59    3617250.48        4.51308                      487820.59
3617250.48        4.03007
         487870.59    3617250.48        3.74503                      487920.59
3617250.48        3.32576
         487970.59    3617250.48        3.08479                      488020.59
3617250.48        2.92687
         488070.59    3617250.48        2.65050                      488120.59
3617250.48        2.47219
         488170.59    3617250.48        2.27379                      488220.59
3617250.48        2.15792
         488270.59    3617250.48        2.64361                      488320.59
3617250.48        2.71719
         488370.59    3617250.48        2.40727                      488420.59
3617250.48        2.93601
         488470.59    3617250.48        3.77051                      488520.59
3617250.48        2.27745
         488570.59    3617250.48        2.95866                      488620.59
3617250.48        2.24370
         485870.59    3617300.48        4.44297                      485920.59
3617300.48        4.69771
         485970.59    3617300.48        4.97538                      486020.59
3617300.48        5.27858
         486070.59    3617300.48        5.61014                      486120.59
3617300.48        5.97321
         486170.59    3617300.48        6.37115                      486220.59
3617300.48        6.82479
         486270.59    3617300.48        7.25402                      486320.59
3617300.48        7.05489
         486370.59    3617300.48        7.26728                      486420.59
3617300.48        7.47249
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                              *** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   HAUL0001   , HAUL0002
 , HAUL0003   , HAUL0004   , HAUL0005   ,
                HAUL0006   , HAUL0007   , HAUL0008   , HAUL0009   , HAUL0010
 , HAUL0011   , HAUL0012   , HAUL0013   ,
                HAUL0014   , HAUL0015   , HAUL0016   , HAUL0017   , HAUL0018
 , HAUL0019   , HAUL0020   , HAUL0021   ,

HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026
, HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
486470.59	3617300.48	7.79915	486520.59	3617300.48	7.49314
486570.59	3617300.48	7.88280	486620.59	3617300.48	7.33370
486670.59	3617300.48	7.67777	486720.59	3617300.48	7.43403
486770.59	3617300.48	7.90526	486820.59	3617300.48	7.52325
486870.59	3617300.48	7.82171	486920.59	3617300.48	7.98249
486970.59	3617300.48	7.33625	487020.59	3617300.48	7.42773
487070.59	3617300.48	7.54823	487120.59	3617300.48	6.86258
487170.59	3617300.48	6.32118	487220.59	3617300.48	6.13370
487270.59	3617300.48	6.13193	487320.59	3617300.48	5.69764
487370.59	3617300.48	5.53963	487420.59	3617300.48	5.59156
487470.59	3617300.48	5.87740	487520.59	3617300.48	5.66371
487570.59	3617300.48	5.13418	487620.59	3617300.48	4.97814
487670.59	3617300.48	4.33508	487720.59	3617300.48	4.13395
487770.59	3617300.48	3.64082	487820.59	3617300.48	3.39729
487870.59	3617300.48	3.04477	487920.59	3617300.48	2.66645
487970.59	3617300.48	2.56623	488020.59	3617300.48	2.46374
488070.59	3617300.48	2.35953	488120.59	3617300.48	2.25483
488170.59	3617300.48	2.15322	488220.59	3617300.48	2.10729
488270.59	3617300.48	2.40770	488320.59		

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3617300.48        2.39910
         488370.59    3617300.48        2.12832                      488420.59
3617300.48        2.77143
         488470.59    3617300.48        3.71238                      488520.59
3617300.48        1.89493
         488570.59    3617300.48        2.21665                      488620.59
3617300.48        2.99214
         485870.59    3617350.48        4.32766                      485920.59
3617350.48        4.56694
         485970.59    3617350.48        4.82638                      486020.59
3617350.48        5.10798
         486070.59    3617350.48        5.41387                      486120.59
3617350.48        5.74629
         486170.59    3617350.48        6.12751                      486220.59
3617350.48        6.47015
         486270.59    3617350.48        6.11599                      486320.59
3617350.48        6.34358
         486370.59    3617350.48        6.42512                      486420.59
3617350.48        6.84903
         486470.59    3617350.48        6.60332                      486520.59
3617350.48        6.89026
         486570.59    3617350.48        6.35947                      486620.59
3617350.48        6.45301
         486670.59    3617350.48        6.28819                      486720.59
3617350.48        6.05728
         486770.59    3617350.48        6.32706                      486820.59
3617350.48        6.06015
         486870.59    3617350.48        6.18222                      486920.59
3617350.48        6.13182
         486970.59    3617350.48        5.93980                      487020.59
3617350.48        6.02280
         487070.59    3617350.48        5.50322                      487120.59
3617350.48        5.63455
         487170.59    3617350.48        5.63828                      487220.59
3617350.48        5.10432
         487270.59    3617350.48        5.13371                      487320.59
3617350.48        5.18396
         487370.59    3617350.48        5.21779                      487420.59
3617350.48        5.26767
         487470.59    3617350.48        5.41657                      487520.59
3617350.48        5.05517
         487570.59    3617350.48        4.87465                      487620.59
3617350.48        4.72919
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 122
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data
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*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
487670.59	3617350.48	4.13042	487720.59	3617350.48	3.60796
487770.59	3617350.48	3.20236	487820.59	3617350.48	2.85234
487870.59	3617350.48	2.50564	487920.59	3617350.48	2.38861
487970.59	3617350.48	2.31071	488020.59	3617350.48	2.23120
488070.59	3617350.48	2.15003	488120.59	3617350.48	2.06742
488170.59	3617350.48	1.99345	488220.59	3617350.48	2.11856
488270.59	3617350.48	2.19078	488320.59	3617350.48	2.10786
488370.59	3617350.48	2.21137	488420.59	3617350.48	2.62511
488470.59	3617350.48	3.70074	488520.59	3617350.48	2.79381
488570.59	3617350.48	3.01082	488620.59	3617350.48	3.08896
485870.59	3617400.48	4.20988	485920.59	3617400.48	4.43384
485970.59	3617400.48	4.68820	486020.59	3617400.48	4.94337
486070.59	3617400.48	5.21713	486120.59	3617400.48	5.53809
486170.59	3617400.48	5.84606	486220.59	3617400.48	5.45977

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        486270.59    3617400.48        5.60301                    486320.59
3617400.48        5.71326
        486370.59    3617400.48        5.76835                    486420.59
3617400.48        5.86519
        486470.59    3617400.48        5.93952                    486520.59
3617400.48        5.51891
        486570.59    3617400.48        5.28064                    486620.59
3617400.48        5.37010
        486670.59    3617400.48        5.13267                    486720.59
3617400.48        5.18604
        486770.59    3617400.48        5.03666                    486820.59
3617400.48        4.99220
        486870.59    3617400.48        4.99213                    486920.59
3617400.48        4.99261
        486970.59    3617400.48        4.64084                    487020.59
3617400.48        4.52036
        487070.59    3617400.48        4.42536                    487120.59
3617400.48        4.20609
        487170.59    3617400.48        4.32694                    487220.59
3617400.48        4.16047
        487270.59    3617400.48        4.24844                    487320.59
3617400.48        4.31618
        487370.59    3617400.48        4.91774                    487420.59
3617400.48        4.98603
        487470.59    3617400.48        5.12647                    487520.59
3617400.48        4.79654
        487570.59    3617400.48        4.62201                    487620.59
3617400.48        4.27038
        487670.59    3617400.48        4.04662                    487720.59
3617400.48        2.81642
        487770.59    3617400.48        2.63087                    487820.59
3617400.48        2.57457
        487870.59    3617400.48        2.50398                    487920.59
3617400.48        2.32211
        487970.59    3617400.48        2.25471                    488020.59
3617400.48        2.18565
        488070.59    3617400.48        2.11518                    488120.59
3617400.48        2.04319
        488170.59    3617400.48        1.97351                    488220.59
3617400.48        2.07773
        488270.59    3617400.48        1.94055                    488320.59
3617400.48        1.82946
        488370.59    3617400.48        1.86387                    488420.59
3617400.48        2.98777
        488470.59    3617400.48        3.68931                    488520.59
3617400.48        3.45634
        488570.59    3617400.48        3.27287                    488620.59
3617400.48        3.16816
        485870.59    3617450.48        4.09056                    485920.59
3617450.48        4.29952
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         485970.59    3617450.48        4.52367                      486020.59
3617450.48        4.77704
↑ *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE 123
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                             *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
         486070.59    3617450.48        5.01558                      486120.59
3617450.48        4.75926
         486170.59    3617450.48        4.91876                      486220.59
3617450.48        4.85976
         486270.59    3617450.48        5.06887                      486320.59
3617450.48        5.16090
         486370.59    3617450.48        5.13115                      486420.59
3617450.48        5.29897
         486470.59    3617450.48        4.88105                      486520.59
3617450.48        4.60315
         486570.59    3617450.48        4.78037                      486620.59
3617450.48        4.49131
         486670.59    3617450.48        4.19931                      486720.59
3617450.48        4.34001
         486770.59    3617450.48        4.09123                      486820.59
3617450.48        4.21987
         486870.59    3617450.48        4.08895                      486920.59
3617450.48        4.14746
         486970.59    3617450.48        3.71529                      487020.59
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3617450.48 3.56051
487070.59 3617450.48 3.50277 487120.59
3617450.48 3.25329
487170.59 3617450.48 3.31381 487220.59
3617450.48 3.46069
487270.59 3617450.48 3.99726 487320.59
3617450.48 4.13123
487370.59 3617450.48 4.65236 487420.59
3617450.48 4.73706
487470.59 3617450.48 4.84700 487520.59
3617450.48 4.48959
487570.59 3617450.48 3.66403 487620.59
3617450.48 2.68412
487670.59 3617450.48 2.44338 487720.59
3617450.48 2.40511
487770.59 3617450.48 2.36691 487820.59
3617450.48 2.25420
487870.59 3617450.48 2.09982 487920.59
3617450.48 2.05033
487970.59 3617450.48 2.05850 488020.59
3617450.48 1.91832
488070.59 3617450.48 1.86899 488120.59
3617450.48 1.89760
488170.59 3617450.48 1.75654 488220.59
3617450.48 1.85480
488270.59 3617450.48 1.77969 488320.59
3617450.48 1.55089
488370.59 3617450.48 1.73345 488420.59
3617450.48 3.66035
488470.59 3617450.48 3.64826 488520.59
3617450.48 3.47504
488570.59 3617450.48 3.30587 488620.59
3617450.48 3.06421
485870.59 3617500.48 3.97826 485920.59
3617500.48 4.16503
485970.59 3617500.48 4.37258 486020.59
3617500.48 4.56182
486070.59 3617500.48 4.28283 486120.59
3617500.48 4.50117
486170.59 3617500.48 4.45788 486220.59
3617500.48 4.63995
486270.59 3617500.48 4.54138 486320.59
3617500.48 4.62378
486370.59 3617500.48 4.28947 486420.59
3617500.48 4.40863
486470.59 3617500.48 4.18148 486520.59
3617500.48 3.93994
486570.59 3617500.48 4.06400 486620.59
3617500.48 3.80540
486670.59 3617500.48 3.55418 486720.59

3617500.48   3.64754
         486770.59   3617500.48   3.44187   486820.59
3617500.48   3.51024
         486870.59   3617500.48   3.32644   486920.59
3617500.48   3.48577
         486970.59   3617500.48   3.10724   487020.59
3617500.48   2.92911
         487070.59   3617500.48   2.69424   487120.59
3617500.48   2.78641
         487170.59   3617500.48   2.83811   487220.59
3617500.48   3.08467

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                              *** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   HAUL0001   , HAUL0002
 , HAUL0003   , HAUL0004   , HAUL0005   ,
                 HAUL0006   , HAUL0007   , HAUL0008   , HAUL0009   , HAUL0010
 , HAUL0011   , HAUL0012   , HAUL0013   ,
                 HAUL0014   , HAUL0015   , HAUL0016   , HAUL0017   , HAUL0018
 , HAUL0019   , HAUL0020   , HAUL0021   ,
                 HAUL0022   , HAUL0023   , HAUL0024   , HAUL0025   , HAUL0026
 , HAUL0027   , HAUL0028   , . . .   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

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        487770.59    3617500.48        1.94682                    487820.59
3617500.48        1.91761
        487870.59    3617500.48        1.88381                    487920.59
3617500.48        1.84545
        487970.59    3617500.48        1.75461                    488020.59
3617500.48        1.61355
        488070.59    3617500.48        1.57744                    488120.59
3617500.48        1.52876
        488170.59    3617500.48        1.49134                    488220.59
3617500.48        1.57519
        488270.59    3617500.48        1.55970                    488320.59
3617500.48        1.43796
        488370.59    3617500.48        2.02764                    488420.59
3617500.48        3.72095
        488470.59    3617500.48        3.59931                    488520.59
3617500.48        3.43481
        488570.59    3617500.48        3.27305                    488620.59
3617500.48        3.04492
        485870.59    3617550.48        3.85429                    485920.59
3617550.48        4.02173
        485970.59    3617550.48        3.86502                    486020.59
3617550.48        3.93171
        486070.59    3617550.48        4.11145                    486120.59
3617550.48        4.08303
        486170.59    3617550.48        4.22568                    486220.59
3617550.48        4.22092
        486270.59    3617550.48        4.19457                    486320.59
3617550.48        3.94668
        486370.59    3617550.48        3.98062                    486420.59
3617550.48        3.79954
        486470.59    3617550.48        3.62223                    486520.59
3617550.48        3.63808
        486570.59    3617550.48        3.44892                    486620.59
3617550.48        3.26569
        486670.59    3617550.48        3.08338                    486720.59
3617550.48        2.89737
        486770.59    3617550.48        2.90742                    486820.59
3617550.48        2.74927
        486870.59    3617550.48        2.63011                    486920.59
3617550.48        2.66192
        486970.59    3617550.48        2.45313                    487020.59
3617550.48        2.31647
        487070.59    3617550.48        2.12410                    487120.59
3617550.48        2.20453
        487170.59    3617550.48        2.28615                    487220.59
3617550.48        2.47022
        487270.59    3617550.48        3.54693                    487320.59
3617550.48        3.82765
        487370.59    3617550.48        3.51340                    487420.59
3617550.48        2.57822
```

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         487470.59    3617550.48        2.28797                      487520.59
3617550.48        2.25448
         487570.59    3617550.48        2.01578                      487620.59
3617550.48        1.90373
         487670.59    3617550.48        1.85134                      487720.59
3617550.48        1.78390
         487770.59    3617550.48        1.76434                      487820.59
3617550.48        1.74280
         487870.59    3617550.48        1.64043                      487920.59
3617550.48        1.55151
         487970.59    3617550.48        1.38341                      488020.59
3617550.48        1.32349
         488070.59    3617550.48        1.30348                      488120.59
3617550.48        1.27603
         488170.59    3617550.48        1.27528                      488220.59
3617550.48        1.34433
         488270.59    3617550.48        1.46799                      488320.59
3617550.48        1.59051
         488370.59    3617550.48        2.82844                      488420.59
3617550.48        3.65480
```



```
                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
         488470.59    3617550.48        3.54509                      488520.59
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3617550.48 3.38925
488570.59 3617550.48 3.23547 488620.59
3617550.48 3.05738
485870.59 3617600.48 3.72433 485920.59
3617600.48 3.47147
485970.59 3617600.48 3.62598 486020.59
3617600.48 3.76891
486070.59 3617600.48 3.70255 486120.59
3617600.48 3.87036
486170.59 3617600.48 4.02427 486220.59
3617600.48 3.82934
486270.59 3617600.48 4.00056 486320.59
3617600.48 3.63395
486370.59 3617600.48 3.40756 486420.59
3617600.48 3.28679
486470.59 3617600.48 3.29607 486520.59
3617600.48 3.08285
486570.59 3617600.48 2.94383 486620.59
3617600.48 2.81911
486670.59 3617600.48 2.69128 486720.59
3617600.48 2.50320
486770.59 3617600.48 2.32205 486820.59
3617600.48 2.16040
486870.59 3617600.48 2.22789 486920.59
3617600.48 2.07450
486970.59 3617600.48 1.96876 487020.59
3617600.48 1.89620
487070.59 3617600.48 1.92861 487120.59
3617600.48 2.00715
487170.59 3617600.48 2.06574 487220.59
3617600.48 2.38022
487270.59 3617600.48 3.95349 487320.59
3617600.48 3.34766
487370.59 3617600.48 2.08331 487420.59
3617600.48 2.03459
487470.59 3617600.48 1.90861 487520.59
3617600.48 1.82734
487570.59 3617600.48 1.80918 487620.59
3617600.48 1.69856
487670.59 3617600.48 1.64847 487720.59
3617600.48 1.61367
487770.59 3617600.48 1.59993 487820.59
3617600.48 1.47932
487870.59 3617600.48 1.44444 487920.59
3617600.48 1.35750
487970.59 3617600.48 1.21700 488020.59
3617600.48 1.11396
488070.59 3617600.48 1.16571 488120.59
3617600.48 1.13876
488170.59 3617600.48 1.20017 488220.59

```
3617600.48        1.26814
         488270.59    3617600.48        1.46745                        488320.59
3617600.48        1.99649
         488370.59    3617600.48        2.92478                        488420.59
3617600.48        3.48602
         488470.59    3617600.48        3.48711                        488520.59
3617600.48        3.33919
         488570.59    3617600.48        3.19315                        488620.59
3617600.48        3.04688
         485870.59    3617650.48        3.31931                        485920.59
3617650.48        3.35773
         485970.59    3617650.48        3.50071                        486020.59
3617650.48        3.44869
         486070.59    3617650.48        3.56253                        486120.59
3617650.48        3.71576
         486170.59    3617650.48        3.55343                        486220.59
3617650.48        3.66358
         486270.59    3617650.48        3.48375                        486320.59
3617650.48        3.35090
         486370.59    3617650.48        3.23526                        486420.59
3617650.48        3.05563
         486470.59    3617650.48        2.86472                        486520.59
3617650.48        2.67921
         486570.59    3617650.48        2.55181                        486620.59
3617650.48        2.43065
         486670.59    3617650.48        2.31461                        486720.59
3617650.48        2.15803
         486770.59    3617650.48        2.00991                        486820.59
3617650.48        1.88046
↟ *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 126
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                             *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
486870.59	3617650.48	1.80717	486920.59	3617650.48	1.74823
486970.59	3617650.48	1.73507	487020.59	3617650.48	1.78628
487070.59	3617650.48	1.86927	487120.59	3617650.48	1.95688
487170.59	3617650.48	2.29390	487220.59	3617650.48	3.20866
487270.59	3617650.48	2.67491	487320.59	3617650.48	2.02958
487370.59	3617650.48	1.80486	487420.59	3617650.48	1.64798
487470.59	3617650.48	1.64489	487520.59	3617650.48	1.57107
487570.59	3617650.48	1.49658	487620.59	3617650.48	1.48409
487670.59	3617650.48	1.47209	487720.59	3617650.48	1.44097
487770.59	3617650.48	1.43189	487820.59	3617650.48	1.33457
487870.59	3617650.48	1.30070	487920.59	3617650.48	1.21343
487970.59	3617650.48	1.17974	488020.59	3617650.48	1.14160
488070.59	3617650.48	1.07061	488120.59	3617650.48	1.13861
488170.59	3617650.48	1.25776	488220.59	3617650.48	1.33321
488270.59	3617650.48	1.42946	488320.59	3617650.48	1.45665
488370.59	3617650.48	2.55848	488420.59	3617650.48	3.47296
488470.59	3617650.48	3.42699	488520.59	3617650.48	3.28607
488570.59	3617650.48	3.14703	488620.59	3617650.48	2.95660
485870.59	3617700.48	3.12072	485920.59	3617700.48	3.14759
485970.59	3617700.48	3.20297	486020.59	3617700.48	3.29353
486070.59	3617700.48	3.28160	486120.59	3617700.48	3.29538

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         486170.59    3617700.48        3.37189                        486220.59
3617700.48        3.22856
         486270.59    3617700.48        3.07099                        486320.59
3617700.48        2.93512
         486370.59    3617700.48        2.79934                        486420.59
3617700.48        2.68938
         486470.59    3617700.48        2.59668                        486520.59
3617700.48        2.37530
         486570.59    3617700.48        2.23377                        486620.59
3617700.48        2.10042
         486670.59    3617700.48        1.97420                        486720.59
3617700.48        1.78634
         486770.59    3617700.48        1.66420                        486820.59
3617700.48        1.58432
         486870.59    3617700.48        1.51952                        486920.59
3617700.48        1.57472
         486970.59    3617700.48        1.65768                        487020.59
3617700.48        1.74422
         487070.59    3617700.48        1.83964                        487120.59
3617700.48        1.96142
         487170.59    3617700.48        2.30384                        487220.59
3617700.48        2.12450
         487270.59    3617700.48        1.76653                        487320.59
3617700.48        1.64198
         487370.59    3617700.48        1.55055                        487420.59
3617700.48        1.47002
         487470.59    3617700.48        1.36403                        487520.59
3617700.48        1.36116
         487570.59    3617700.48        1.35405                        487620.59
3617700.48        1.34467
         487670.59    3617700.48        1.33526                        487720.59
3617700.48        1.32441
         487770.59    3617700.48        1.27023                        487820.59
3617700.48        1.24756
         487870.59    3617700.48        1.16603                        487920.59
3617700.48        1.11715
         487970.59    3617700.48        1.14295                        488020.59
3617700.48        1.12603
↑ *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE 127
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
```

```
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         488070.59    3617700.48        1.19867                      488120.59
3617700.48        1.39791
         488170.59    3617700.48        1.47864                      488220.59
3617700.48        1.73072
         488270.59    3617700.48        1.79677                      488320.59
3617700.48        1.81273
         488370.59    3617700.48        2.32172                      488420.59
3617700.48        3.41100
         488470.59    3617700.48        3.36581                      488520.59
3617700.48        3.23127
         488570.59    3617700.48        3.09843                      488620.59
3617700.48        2.97213
         485870.59    3617750.48        2.93072                      485920.59
3617750.48        2.94300
         485970.59    3617750.48        3.02373                      486020.59
3617750.48        2.89176
         486070.59    3617750.48        3.00243                      486120.59
3617750.48        3.07219
         486170.59    3617750.48        2.99027                      486220.59
3617750.48        2.88617
         486270.59    3617750.48        2.76241                      486320.59
3617750.48        2.72881
         486370.59    3617750.48        2.62937                      486420.59
3617750.48        2.47392
         486470.59    3617750.48        2.31493                      486520.59
3617750.48        2.15667
         486570.59    3617750.48        2.04859                      486620.59
3617750.48        1.82489
         486670.59    3617750.48        1.68840                      486720.59
3617750.48        1.55696
         486770.59    3617750.48        1.46279                      486820.59
3617750.48        1.38685
         486870.59    3617750.48        1.46165                      486920.59
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3617750.48        1.54223
         486970.59    3617750.48        1.63014                     487020.59
3617750.48        1.73129
         487070.59    3617750.48        1.86934                     487120.59
3617750.48        2.00814
         487170.59    3617750.48        1.86523                     487220.59
3617750.48        1.66729
         487270.59    3617750.48        1.43743                     487320.59
3617750.48        1.42540
         487370.59    3617750.48        1.31935                     487420.59
3617750.48        1.23796
         487470.59    3617750.48        1.14998                     487520.59
3617750.48        1.14682
         487570.59    3617750.48        1.14373                     487620.59
3617750.48        1.14841
         487670.59    3617750.48        1.22187                     487720.59
3617750.48        1.20378
         487770.59    3617750.48        1.13069                     487820.59
3617750.48        1.12764
         487870.59    3617750.48        1.12039                     487920.59
3617750.48        1.10564
         487970.59    3617750.48        1.12381                     488020.59
3617750.48        1.13320
         488070.59    3617750.48        1.43148                     488120.59
3617750.48        1.87101
         488170.59    3617750.48        1.82607                     488220.59
3617750.48        2.10607
         488270.59    3617750.48        2.20913                     488320.59
3617750.48        2.38378
         488370.59    3617750.48        3.16837                     488420.59
3617750.48        3.35351
         488470.59    3617750.48        3.30941                     488520.59
3617750.48        3.17561
         488570.59    3617750.48        3.04847                     488620.59
3617750.48        2.92811
         485870.59    3617800.48        2.74558                     485920.59
3617800.48        2.83765
         485970.59    3617800.48        2.70850                     486020.59
3617800.48        2.79106
         486070.59    3617800.48        2.87599                     486120.59
3617800.48        2.65080
         486170.59    3617800.48        2.64462                     486220.59
3617800.48        2.56383
         486270.59    3617800.48        2.50759                     486370.59
3617800.48        2.31618
         486420.59    3617800.48        2.18005                     486470.59
3617800.48        2.15152
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
486520.59	3617800.48	2.06728	486570.59	3617800.48	1.80092
486620.59	3617800.48	1.60641	486670.59	3617800.48	1.49369
486720.59	3617800.48	1.38089	486770.59	3617800.48	1.30820
486820.59	3617800.48	1.36308	486870.59	3617800.48	1.44037
486920.59	3617800.48	1.52762	486970.59	3617800.48	1.63288
487020.59	3617800.48	1.69520	487070.59	3617800.48	1.65208
487120.59	3617800.48	1.40979	487170.59	3617800.48	1.32698
487220.59	3617800.48	1.27379	487270.59	3617800.48	1.25991
487320.59	3617800.48	1.17623	487370.59	3617800.48	1.10186
487420.59	3617800.48	1.11090	487470.59	3617800.48	1.04866
487520.59	3617800.48	1.02984	487570.59	3617800.48	1.03139
487620.59	3617800.48	1.09815	487670.59	3617800.48	1.10073

```
         487720.59    3617800.48        1.08351                    487770.59
3617800.48        1.02084
         487820.59    3617800.48        1.01929                    487870.59
3617800.48        1.08368
         487920.59    3617800.48        1.20953                    487970.59
3617800.48        1.30225
         488020.59    3617800.48        1.61809                    488070.59
3617800.48        1.91277
         488120.59    3617800.48        2.52144                    488170.59
3617800.48        2.63080
         488220.59    3617800.48        2.84600                    488270.59
3617800.48        2.82777
         488320.59    3617800.48        3.47111                    488370.59
3617800.48        3.37332
         488420.59    3617800.48        3.32304                    488470.59
3617800.48        3.24610
         488520.59    3617800.48        3.11918                    488570.59
3617800.48        2.99775
         488620.59    3617800.48        2.88269                    485870.59
3617850.48        2.65956
         485920.59    3617850.48        2.63530                    485970.59
3617850.48        2.60322
         486020.59    3617850.48        2.63868                    486070.59
3617850.48        2.45646
         486120.59    3617850.48        2.45412                    486170.59
3617850.48        2.38818
         486220.59    3617850.48        2.35135                    486420.59
3617850.48        2.01649
         486470.59    3617850.48        1.90627                    486520.59
3617850.48        1.79584
         486570.59    3617850.48        1.62894                    486620.59
3617850.48        1.40222
         486670.59    3617850.48        1.28530                    486720.59
3617850.48        1.23078
         486770.59    3617850.48        1.21430                    486820.59
3617850.48        1.28908
         486870.59    3617850.48        1.43626                    486920.59
3617850.48        1.54516
         486970.59    3617850.48        1.64492                    487020.59
3617850.48        1.52987
         487070.59    3617850.48        1.11765                    487120.59
3617850.48        0.94418
         487170.59    3617850.48        1.01785                    487220.59
3617850.48        1.03933
         487270.59    3617850.48        1.05070                    487320.59
3617850.48        1.03380
         487370.59    3617850.48        0.98473                    487420.59
3617850.48        0.97442
         487470.59    3617850.48        0.99000                    487520.59
3617850.48        0.98284
```

                              *** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   HAUL0001   , HAUL0002
 , HAUL0003   , HAUL0004   , HAUL0005   ,
                 HAUL0006   , HAUL0007   , HAUL0008   , HAUL0009   , HAUL0010
 , HAUL0011   , HAUL0012   , HAUL0013   ,
                 HAUL0014   , HAUL0015   , HAUL0016   , HAUL0017   , HAUL0018
 , HAUL0019   , HAUL0020   , HAUL0021   ,
                 HAUL0022   , HAUL0023   , HAUL0024   , HAUL0025   , HAUL0026
 , HAUL0027   , HAUL0028   , . . .   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         487870.59   3617850.48   1.12109   487920.59
3617850.48   1.23093
         487970.59   3617850.48   1.41365   488020.59
3617850.48   1.64229
         488070.59   3617850.48   2.28788   488120.59
3617850.48   2.96091
         488170.59   3617850.48   2.89843   488220.59
3617850.48   2.83244
         488270.59   3617850.48   2.76496   488320.59
3617850.48   2.78939
         488370.59   3617850.48   3.29895   488420.59
3617850.48   3.25109
         488470.59   3617850.48   3.18086   488520.59
3617850.48   3.06151
         488570.59   3617850.48   2.94622   488620.59

3617850.48 2.83634
485870.59 3617900.48 2.47231 485920.59
3617900.48 2.43533
485970.59 3617900.48 2.51701 486020.59
3617900.48 2.29653
486070.59 3617900.48 2.32881 486120.59
3617900.48 2.23174
486170.59 3617900.48 2.20321 486470.59
3617900.48 1.68104
486520.59 3617900.48 1.55926 486570.59
3617900.48 1.34564
486620.59 3617900.48 1.27902 486670.59
3617900.48 1.13590
486720.59 3617900.48 1.08432 486770.59
3617900.48 1.15066
486820.59 3617900.48 1.23273 486870.59
3617900.48 1.42051
486920.59 3617900.48 1.54258 486970.59
3617900.48 1.48450
487020.59 3617900.48 0.97207 487070.59
3617900.48 0.89213
487120.59 3617900.48 0.85593 487170.59
3617900.48 0.91107
487220.59 3617900.48 0.88127 487270.59
3617900.48 0.95255
487320.59 3617900.48 0.92213 487370.59
3617900.48 0.90839
487420.59 3617900.48 0.86691 487470.59
3617900.48 0.87439
487520.59 3617900.48 0.87849 487570.59
3617900.48 0.87941
487620.59 3617900.48 0.87768 487670.59
3617900.48 0.87067
487720.59 3617900.48 0.86193 487770.59
3617900.48 0.86674
487820.59 3617900.48 0.92686 487870.59
3617900.48 1.08397
487920.59 3617900.48 1.36120 487970.59
3617900.48 1.67164
488020.59 3617900.48 1.84284 488070.59
3617900.48 2.40279
488120.59 3617900.48 2.66667 488170.59
3617900.48 2.61727
488220.59 3617900.48 2.39658 488270.59
3617900.48 2.40893
488320.59 3617900.48 2.33387 488370.59
3617900.48 3.23914
488420.59 3617900.48 3.17562 488470.59
3617900.48 3.11089
488520.59 3617900.48 3.00190 488570.59

3617900.48   2.89340
         488620.59   3617900.48   2.78875   485870.59
3617950.48   2.28448
         485920.59   3617950.48   2.35815   485970.59
3617950.48   2.23895
         486020.59   3617950.48   2.22037   486070.59
3617950.48   2.09153
         487077.48   3618005.05   0.71590   487127.48
3618005.05   0.68962
         487177.48   3618005.05   0.70446   487227.48
3618005.05   0.71752
         487277.48   3618005.05   0.72903   487327.48
3618005.05   0.72252
         486470.59   3617950.48   1.57980   486520.59
3617950.48   1.39486

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                              *** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   HAUL0001   , HAUL0002
 , HAUL0003   , HAUL0004   , HAUL0005   ,
                   HAUL0006   , HAUL0007   , HAUL0008   , HAUL0009   , HAUL0010
 , HAUL0011   , HAUL0012   , HAUL0013   ,
                   HAUL0014   , HAUL0015   , HAUL0016   , HAUL0017   , HAUL0018
 , HAUL0019   , HAUL0020   , HAUL0021   ,
                   HAUL0022   , HAUL0023   , HAUL0024   , HAUL0025   , HAUL0026
 , HAUL0027   , HAUL0028   , . . .   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

```
        486870.59    3617950.48        1.43206                    486920.59
3617950.48        1.26603
        486970.59    3617950.48        0.81905                    487020.59
3617950.48        0.80567
        487070.59    3617950.48        0.81083                    487120.59
3617950.48        0.76593
        487170.59    3617950.48        0.78046                    487220.59
3617950.48        0.79396
        487270.59    3617950.48        0.80635                    487320.59
3617950.48        0.81787
        487370.59    3617950.48        0.81849                    487420.59
3617950.48        0.78411
        487470.59    3617950.48        0.79172                    487520.59
3617950.48        0.79656
        487570.59    3617950.48        0.79853                    487620.59
3617950.48        0.79796
        487670.59    3617950.48        0.79193                    487720.59
3617950.48        0.78352
        487770.59    3617950.48        0.82035                    487820.59
3617950.48        0.85988
        487870.59    3617950.48        1.04628                    487920.59
3617950.48        1.49001
        487970.59    3617950.48        1.79030                    488020.59
3617950.48        2.05304
        488070.59    3617950.48        2.36245                    488120.59
3617950.48        2.46258
        488170.59    3617950.48        1.93966                    488220.59
3617950.48        1.63805
        488270.59    3617950.48        1.90297                    488320.59
3617950.48        2.46863
        488370.59    3617950.48        3.12853                    488420.59
3617950.48        3.09665
        488470.59    3617950.48        3.00012                    488520.59
3617950.48        2.93972
        488570.59    3617950.48        2.83867                    488620.59
3617950.48        2.73940
        487840.14    3615798.03        5.39869                    487890.14
3615798.03        5.18553
        487940.14    3615798.03        4.98519                    487990.14
3615798.03        4.78977
        488240.14    3615798.03        3.88453                    488290.14
3615798.03        3.73038
        488340.14    3615798.03        3.58504                    488390.14
3615798.03        3.44689
        488440.14    3615798.03        3.30082                    488490.14
3615798.03        3.17815
        488540.14    3615798.03        3.06185                    488590.14
3615798.03        2.95152
        487940.14    3615848.03        5.22677                    487990.14
3615848.03        5.00915
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         488040.14    3615848.03        4.79949                      488190.14
3615848.03        4.20430
         488240.14    3615848.03        4.03578                      488290.14
3615848.03        3.86523
         488340.14    3615848.03        3.70941                      488390.14
3615848.03        3.55654
         488440.14    3615848.03        3.40644                      488490.14
3615848.03        3.27600
         488540.14    3615848.03        3.15258                      488590.14
3615848.03        3.03570
         487740.14    3615898.03        6.60103                      487990.14
3615898.03        5.24380
         488040.14    3615898.03        5.00718                      488090.14
3615898.03        4.79829
         488140.14    3615898.03        4.58519                      488190.14
3615898.03        4.38415
         488240.14    3615898.03        4.19255                      488290.14
3615898.03        4.00555
         488340.14    3615898.03        3.83843                      488390.14
3615898.03        3.67028
         488440.14    3615898.03        3.51530                      488490.14
3615898.03        3.37652
         488540.14    3615898.03        3.24545                      488590.14
3615898.03        3.12157
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 131
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
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Y-COORD (M)        CONC
 - - -
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```
3616098.03       10.13561
         487640.14    3616098.03        9.65673                        487890.14
3616098.03        7.14514
         487940.14    3616098.03        6.76222                        487990.14
3616098.03        6.36818
         488040.14    3616098.03        6.01176                        488090.14
3616098.03        5.67733
         488140.14    3616098.03        5.10513                        488190.14
3616098.03        4.71620
         488240.14    3616098.03        4.51436                        488290.14
3616098.03        4.43030
         488340.14    3616098.03        4.36816                        488390.14
3616098.03        4.16277
         488440.14    3616098.03        3.97127                        488490.14
3616098.03        3.79245
         488540.14    3616098.03        3.58399                        488590.14
3616098.03        3.40043
         487540.14    3616148.03       11.77409                        487590.14
3616148.03       11.10968
         487640.14    3616148.03       10.40510                        487690.14
3616148.03        9.80539
         487940.14    3616148.03        7.09823                        487990.14
3616148.03        6.69961
         488040.14    3616148.03        6.29274                        488090.14
3616148.03        5.90338
         488140.14    3616148.03        5.35264                        488190.14
3616148.03        4.93961
         488240.14    3616148.03        4.71553                        488290.14
3616148.03        4.60915
         488340.14    3616148.03        4.50926                        488390.14
3616148.03        4.28923
         488440.14    3616148.03        4.08474                        488490.14
3616148.03        3.85164
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 132
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
```

, HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
488540.14	3616148.03	3.64867	488590.14	3616148.03	3.49121
487590.14	3616198.03	12.09557	487640.14	3616198.03	11.28459
487690.14	3616198.03	10.58801	487740.14	3616198.03	9.81138
487990.14	3616198.03	7.03906	488040.14	3616198.03	6.55514
488090.14	3616198.03	6.15848	488140.14	3616198.03	5.60529
488190.14	3616198.03	5.16497	488240.14	3616198.03	4.91529
488290.14	3616198.03	4.78397	488340.14	3616198.03	4.64796
488390.14	3616198.03	4.41259	488440.14	3616198.03	4.15690
488490.14	3616198.03	3.92249	488540.14	3616198.03	3.74245
488590.14	3616198.03	3.57401	487690.14	3616248.03	11.36314
487740.14	3616248.03	10.59278	487790.14	3616248.03	9.74252
487840.14	3616248.03	9.08205	487940.14	3616248.03	7.90519
487990.14	3616248.03	7.30914	488040.14	3616248.03	6.84111
488090.14	3616248.03	6.41580	488140.14	3616248.03	5.85506
488190.14	3616248.03	5.38444	488240.14	3616248.03	5.10671
488290.14	3616248.03	4.94918	488340.14	3616248.03	4.78155
488390.14	3616248.03	4.52958	488440.14	3616248.03	4.22491
488490.14	3616248.03	4.01838	488540.14	3616248.03	3.82630
488590.14	3616248.03	3.64745	487690.14	3616298.03	12.29052

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         487740.14    3616298.03       11.31072                       487790.14
3616298.03       10.36496
         487840.14    3616298.03        9.59973                       487890.14
3616298.03        8.93726
         487940.14    3616298.03        8.26570                       487990.14
3616298.03        7.65202
         488040.14    3616298.03        7.13593                       488090.14
3616298.03        6.66993
         488140.14    3616298.03        6.09284                       488190.14
3616298.03        5.58980
         488240.14    3616298.03        5.28303                       488290.14
3616298.03        5.09977
         488340.14    3616298.03        4.90698                       488390.14
3616298.03        4.57990
         488440.14    3616298.03        4.32171                       488490.14
3616298.03        4.10219
         488540.14    3616298.03        3.89901                       488590.14
3616298.03        3.71069
         487690.14    3616348.03       13.29886                       487740.14
3616348.03       12.07000
         487790.14    3616348.03       11.04511                       487840.14
3616348.03       10.13884
         487890.14    3616348.03        9.33650                       487940.14
3616348.03        8.62443
         487990.14    3616348.03        7.98993                       488040.14
3616348.03        7.42270
         488090.14    3616348.03        6.91401                       488140.14
3616348.03        6.30978
         488190.14    3616348.03        5.77363                       488240.14
3616348.03        5.43855
         488290.14    3616348.03        5.22850                       488340.14
3616348.03        4.92931
         488390.14    3616348.03        4.65534                       488440.14
3616348.03        4.40395
         488490.14    3616348.03        4.17279                       488540.14
3616348.03        3.95981
         488590.14    3616348.03        3.76320                       487640.14
3616398.03       15.95680
         487690.14    3616398.03       14.29122                       487740.14
3616398.03       12.92357
         487790.14    3616398.03       11.73627                       487840.14
3616398.03       10.70407
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 133
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data
```

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
487890.14	3616398.03	9.80256	487940.14	3616398.03	9.01094
487990.14	3616398.03	8.31199	488040.14	3616398.03	7.69204
488090.14	3616398.03	7.14011	488140.14	3616398.03	6.49836
488190.14	3616398.03	5.93002	488240.14	3616398.03	5.56898
488290.14	3616398.03	5.33879	488340.14	3616398.03	5.02216
488390.14	3616398.03	4.73378	488440.14	3616398.03	4.47043
488490.14	3616398.03	4.22934	488540.14	3616398.03	4.00809
488590.14	3616398.03	3.80456	487590.14	3616448.03	19.71613
487640.14	3616448.03	17.30315	487690.14	3616448.03	15.38324
487740.14	3616448.03	13.77942	487790.14	3616448.03	12.41573
487840.14	3616448.03	11.24913	487890.14	3616448.03	10.24326
487940.14	3616448.03	9.36948	487990.14	3616448.03	8.60541
488040.14	3616448.03	7.93340	488090.14	3616448.03	7.33958
488140.14	3616448.03	6.65232	488190.14	3616448.03	6.05424
488240.14	3616448.03	5.51414	488290.14		

3616448.03 5.29622
488340.14 3616448.03 4.97502 488390.14
3616448.03 4.79321
488440.14 3616448.03 4.52014 488490.14
3616448.03 4.27107
488540.14 3616448.03 4.04324 488590.14
3616448.03 3.75182
487540.14 3616498.03 24.50296 487590.14
3616498.03 21.63458
487640.14 3616498.03 18.70834 487690.14
3616498.03 16.46044
487740.14 3616498.03 14.60283 487790.14
3616498.03 13.05376
487840.14 3616498.03 11.74825 487890.14
3616498.03 10.63692
487940.14 3616498.03 9.68241 487990.14
3616498.03 8.85610
488040.14 3616498.03 8.13565 488090.14
3616498.03 7.39400
488140.14 3616498.03 6.76350 488190.14
3616498.03 6.01626
488240.14 3616498.03 5.67269 488290.14
3616498.03 5.37847
488340.14 3616498.03 4.97595 488390.14
3616498.03 4.67932
488440.14 3616498.03 4.49602 488490.14
3616498.03 4.19050
488540.14 3616498.03 3.94186 488590.14
3616498.03 3.73715
484613.02 3614429.89 1.02468 484663.02
3614429.89 1.04199
484713.02 3614429.89 1.06055 484763.02
3614429.89 1.07954
484813.02 3614429.89 1.09895 484863.02
3614429.89 1.11880
484913.02 3614429.89 1.14376 484963.02
3614429.89 1.16380
484563.02 3614479.89 1.02200 484613.02
3614479.89 1.03982
484663.02 3614479.89 1.05860 484713.02
3614479.89 1.07780
484763.02 3614479.89 1.09743 484813.02
3614479.89 1.11752
484863.02 3614479.89 1.13806 484913.02
3614479.89 1.16401
484963.02 3614479.89 1.18465 484513.02
3614529.89 1.01902
484563.02 3614529.89 1.03707 484613.02
3614529.89 1.05605
484663.02 3614529.89 1.07546 484713.02

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                              *** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   HAUL0001   , HAUL0002
 , HAUL0003   , HAUL0004   , HAUL0005   ,
                   HAUL0006   , HAUL0007   , HAUL0008   , HAUL0009   , HAUL0010
 , HAUL0011   , HAUL0012   , HAUL0013   ,
                   HAUL0014   , HAUL0015   , HAUL0016   , HAUL0017   , HAUL0018
 , HAUL0019   , HAUL0020   , HAUL0021   ,
                   HAUL0022   , HAUL0023   , HAUL0024   , HAUL0025   , HAUL0026
 , HAUL0027   , HAUL0028   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)   CONC
 - - -

```
         484613.02    3614629.89        1.08914                    484663.02
3614629.89        1.10991
         484713.02    3614629.89        1.13118                    484763.02
3614629.89        1.15296
         484813.02    3614629.89        1.17526                    484863.02
3614629.89        1.19810
         484913.02    3614629.89        1.22302                    484963.02
3614629.89        1.25039
         484413.02    3614679.89        1.02520                    484463.02
3614679.89        1.04458
         484513.02    3614679.89        1.06456                    484563.02
3614679.89        1.08502
         484613.02    3614679.89        1.10599                    484663.02
3614679.89        1.12748
         484713.02    3614679.89        1.14949                    484763.02
3614679.89        1.17204
         484813.02    3614679.89        1.19515                    484863.02
3614679.89        1.21883
         484913.02    3614679.89        1.24309                    484963.02
3614679.89        1.27238
         484363.02    3614729.89        1.01983                    484413.02
3614729.89        1.03946
         484463.02    3614729.89        1.05958                    484513.02
3614729.89        1.08021
         484563.02    3614729.89        1.10135                    484613.02
3614729.89        1.12303
         484663.02    3614729.89        1.14525                    484713.02
3614729.89        1.16803
         484763.02    3614729.89        1.19139                    484813.02
3614729.89        1.21534
         484863.02    3614729.89        1.23989                    484913.02
3614729.89        1.26507
         484963.02    3614729.89        1.29544                    484313.02
3614779.89        1.01397
         484363.02    3614779.89        1.03370                    484413.02
3614779.89        1.05394
         484463.02    3614779.89        1.07470                    484513.02
3614779.89        1.09599
         484563.02    3614779.89        1.11783                    484613.02
3614779.89        1.14024
         484663.02    3614779.89        1.16323                    484713.02
3614779.89        1.18681
         484763.02    3614779.89        1.21100                    484813.02
3614779.89        1.23582
         484863.02    3614779.89        1.26128                    484913.02
3614779.89        1.28741
         484963.02    3614779.89        1.31891                    484263.02
3614829.89        1.00765
         484313.02    3614829.89        1.02732                    484363.02
3614829.89        1.04765
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3614879.89 1.19973
484713.02 3614879.89 1.22499 484763.02 3614879.89 1.25093
484813.02 3614879.89 1.27759 484863.02 3614879.89 1.30498
484913.02 3614879.89 1.33312 484963.02 3614879.89 1.36702
484163.02 3614929.89 0.99429 484213.02 3614929.89 1.01283
484263.02 3614929.89 1.03322 484313.02 3614929.89 1.05418
484363.02 3614929.89 1.07572 484413.02 3614929.89 1.09787
484463.02 3614929.89 1.12063 484513.02 3614929.89 1.14403
484563.02 3614929.89 1.16809 484613.02 3614929.89 1.19281
484663.02 3614929.89 1.21823 484713.02 3614929.89 1.24437
484763.02 3614929.89 1.27123 484813.02 3614929.89 1.29886
484863.02 3614929.89 1.32726 484913.02 3614929.89 1.35647
484963.02 3614929.89 1.38713 485013.02 3614929.89 1.42382
484113.02 3614979.89 0.98557 484163.02 3614979.89 1.00479
484213.02 3614979.89 1.02516 484263.02 3614979.89 1.04611
484313.02 3614979.89 1.06766 484363.02 3614979.89 1.08983
484413.02 3614979.89 1.11263 484463.02 3614979.89 1.13609
484513.02 3614979.89 1.16023 484563.02 3614979.89 1.18506
484613.02 3614979.89 1.21060 484663.02 3614979.89 1.23688
484713.02 3614979.89 1.26392 484763.02 3614979.89 1.29173
484813.02 3614979.89 1.32036 484863.02 3614979.89 1.34981
484913.02 3614979.89 1.38012 484963.02 3614979.89 1.41196
485013.02 3614979.89 1.45006 484113.02 3615029.89 0.99629
484163.02 3615029.89 1.01660 484213.02 3615029.89 1.03750
484263.02 3615029.89 1.05901 484313.02 3615029.89 1.08116
484363.02 3615029.89 1.10396 484413.02

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3615029.89        1.12744
         484463.02    3615029.89        1.15161                       484513.02
3615029.89        1.17649
         484563.02    3615029.89        1.20211                       484613.02
3615029.89        1.22849
         484663.02    3615029.89        1.25565                       484713.02
3615029.89        1.28362
         484763.02    3615029.89        1.31241                       484813.02
3615029.89        1.34207
         484863.02    3615029.89        1.37260                       484913.02
3615029.89        1.40405
         484963.02    3615029.89        1.43644                       485013.02
3615029.89        1.47201
         485063.02    3615029.89        1.51142                       484113.02
3615079.89        1.00758
         484163.02    3615079.89        1.02840                       484213.02
3615079.89        1.04984
         484263.02    3615079.89        1.07192                       484313.02
3615079.89        1.09468
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 136
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         484363.02    3615079.89        1.11812                       484413.02
3615079.89        1.14228
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         484463.02    3615079.89        1.16717                    484513.02
3615079.89        1.19281
         484563.02    3615079.89        1.21924                    484613.02
3615079.89        1.24647
         484663.02    3615079.89        1.27454                    484713.02
3615079.89        1.30345
         484763.02    3615079.89        1.33326                    484813.02
3615079.89        1.36397
         484863.02    3615079.89        1.39562                    484913.02
3615079.89        1.42825
         484963.02    3615079.89        1.46189                    485013.02
3615079.89        1.49656
         485063.02    3615079.89        1.53450                    485113.02
3615079.89        1.57636
         484113.02    3615129.89        1.01886                    484163.02
3615129.89        1.04019
         484213.02    3615129.89        1.06217                    484263.02
3615129.89        1.08484
         484313.02    3615129.89        1.10820                    484363.02
3615129.89        1.13229
         484413.02    3615129.89        1.15713                    484463.02
3615129.89        1.18275
         484513.02    3615129.89        1.20917                    484563.02
3615129.89        1.23642
         484613.02    3615129.89        1.26452                    484663.02
3615129.89        1.29351
         484713.02    3615129.89        1.32340                    484763.02
3615129.89        1.35424
         484813.02    3615129.89        1.38604                    484863.02
3615129.89        1.41885
         484913.02    3615129.89        1.45270                    484963.02
3615129.89        1.48762
         485013.02    3615129.89        1.52365                    485063.02
3615129.89        1.56083
         485113.02    3615129.89        1.60133                    485163.02
3615129.89        1.64673
         484113.02    3615179.89        1.03012                    484163.02
3615179.89        1.05196
         484213.02    3615179.89        1.07449                    484263.02
3615179.89        1.09774
         484313.02    3615179.89        1.12172                    484363.02
3615179.89        1.14646
         484413.02    3615179.89        1.17200                    484463.02
3615179.89        1.19835
         484513.02    3615179.89        1.22556                    484563.02
3615179.89        1.25364
         484613.02    3615179.89        1.28263                    484663.02
3615179.89        1.31255
         484713.02    3615179.89        1.34344                    484763.02
3615179.89        1.37533
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         484813.02    3615179.89        1.40826                       484863.02
3615179.89        1.44225
         484913.02    3615179.89        1.47736                       484963.02
3615179.89        1.51361
         485013.02    3615179.89        1.55105                       485063.02
3615179.89        1.58971
         485113.02    3615179.89        1.62966                       485163.02
3615179.89        1.67362
         485213.02    3615179.89        1.72067                       484113.02
3615229.89        1.04135
         484163.02    3615229.89        1.06371                       484213.02
3615229.89        1.08679
         484263.02    3615229.89        1.11100                       484313.02
3615229.89        1.13569
         484363.02    3615229.89        1.16460                       484413.02
3615229.89        1.19097
         484463.02    3615229.89        1.21822                       484513.02
3615229.89        1.24637
         484563.02    3615229.89        1.27545                       484613.02
3615229.89        1.30492
         484663.02    3615229.89        1.33572                       484713.02
3615229.89        1.36500
         484763.02    3615229.89        1.39687                       484813.02
3615229.89        1.43059
         484863.02    3615229.89        1.46581                       484913.02
3615229.89        1.50220
         484963.02    3615229.89        1.53983                       485013.02
3615229.89        1.57872
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE 137
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
485063.02	3615229.89	1.61893	485113.02	3615229.89	1.66051
485163.02	3615229.89	1.70351	485213.02	3615229.89	1.74797
485263.02	3615229.89	1.80094	484113.02	3615279.89	1.05254
484163.02	3615279.89	1.07542	484213.02	3615279.89	1.10156
484263.02	3615279.89	1.12836	484313.02	3615279.89	1.15348
484613.02	3615279.89	1.32512	484663.02	3615279.89	1.35493
484713.02	3615279.89	1.38803	484763.02	3615279.89	1.42038
484813.02	3615279.89	1.45302	484863.02	3615279.89	1.48948
484913.02	3615279.89	1.52721	484963.02	3615279.89	1.56624
485013.02	3615279.89	1.60664	485063.02	3615279.89	1.64845
485113.02	3615279.89	1.69172	485163.02	3615279.89	1.73651
485213.02	3615279.89	1.78289	485263.02	3615279.89	1.83115
485313.02	3615279.89	1.88843	484113.02	3615329.89	1.06484
484163.02	3615329.89	1.09172	484213.02	3615329.89	1.11519
484663.02	3615329.89	1.37648	484713.02	3615329.89	1.40864
484763.02	3615329.89	1.44367	484813.02	3615329.89	1.47551
484863.02	3615329.89	1.51325	484913.02	3615329.89	1.55234
484963.02	3615329.89	1.59282	485013.02	3615329.89	1.63476
485063.02	3615329.89	1.67822	485113.02	3615329.89	1.72324
485163.02	3615329.89	1.76991	485213.02	3615329.89	1.81827
485263.02	3615329.89	1.86841	485313.02	3615329.89	1.92040
485363.02	3615329.89	1.97856	484113.02		

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3615379.89        1.07899
         484163.02    3615379.89        1.10252                        484713.02
3615379.89        1.43107
         484763.02    3615379.89        1.46537                        484813.02
3615379.89        1.50249
         484863.02    3615379.89        1.53726                        484913.02
3615379.89        1.57756
         484963.02    3615379.89        1.61953                        485013.02
3615379.89        1.66306
         485063.02    3615379.89        1.70821                        485113.02
3615379.89        1.75504
         485163.02    3615379.89        1.80364                        485213.02
3615379.89        1.85407
         485263.02    3615379.89        1.90641                        485313.02
3615379.89        1.96074
         485363.02    3615379.89        2.01715                        485413.02
3615379.89        2.07674
         484763.02    3615429.89        1.48913                        484813.02
3615429.89        1.52561
         484863.02    3615429.89        1.56545                        484913.02
3615429.89        1.60284
         484963.02    3615429.89        1.64632                        485013.02
3615429.89        1.69148
         485063.02    3615429.89        1.73837                        485113.02
3615429.89        1.78707
         485163.02    3615429.89        1.83766                        485213.02
3615429.89        1.89023
         485263.02    3615429.89        1.94485                        485313.02
3615429.89        2.00163
         485363.02    3615429.89        2.06065                        485413.02
3615429.89        2.12202
         485463.02    3615429.89        2.18743                        485513.02
3615429.89        2.26643
         484813.02    3615479.89        1.55095                        484863.02
3615479.89        1.59231
         484913.02    3615479.89        1.62971                        484963.02
3615479.89        1.67317
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE 138
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                             *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
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 , HAUL0011    , HAUL0012    , HAUL0013    ,
                HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         485013.02    3615479.89        1.71998                       485063.02
3615479.89        1.76865
         485113.02    3615479.89        1.81927                       485163.02
3615479.89        1.87192
         485213.02    3615479.89        1.92669                       485263.02
3615479.89        1.98369
         485313.02    3615479.89        2.04300                       485363.02
3615479.89        2.10475
         485413.02    3615479.89        2.16903                       485463.02
3615479.89        2.23597
         485513.02    3615479.89        2.32045                       485563.02
3615479.89        2.39086
         484863.02    3615529.89        1.61556                       484913.02
3615529.89        1.66179
         484963.02    3615529.89        1.70079                       485013.02
3615529.89        1.74853
         485063.02    3615529.89        1.79902                       485113.02
3615529.89        1.85160
         485163.02    3615529.89        1.90636                       485213.02
3615529.89        1.96340
         485263.02    3615529.89        2.02284                       485313.02
3615529.89        2.08479
         485363.02    3615529.89        2.14936                       485413.02
3615529.89        2.21669
         485463.02    3615529.89        2.28690                       485513.02
3615529.89        2.37548
         484913.02    3615579.89        1.68637                       484963.02
3615579.89        1.73581
         485013.02    3615579.89        1.78237                       485063.02
3615579.89        1.83496
         485113.02    3615579.89        1.88400                       485163.02
3615579.89        1.94092
         485213.02    3615579.89        2.00029                       485263.02
3615579.89        2.06225
```

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         485313.02    3615579.89        2.12692                       485363.02
3615579.89        2.19442
         485413.02    3615579.89        2.26491                       485463.02
3615579.89        2.33853
         484963.02    3615629.89        1.76178                       485013.02
3615629.89        1.81517
         485063.02    3615629.89        1.86667                       485113.02
3615629.89        1.92361
         485163.02    3615629.89        1.98015                       485213.02
3615629.89        2.03730
         485263.02    3615629.89        2.10184                       485313.02
3615629.89        2.16930
         485363.02    3615629.89        2.23984                       485413.02
3615629.89        2.31427
         485013.02    3615679.89        1.84242                       485063.02
3615679.89        1.90040
         485113.02    3615679.89        1.95618                       485163.02
3615679.89        2.01791
         485213.02    3615679.89        2.07957                       485263.02
3615679.89        2.14153
         485313.02    3615679.89        2.21186                       485363.02
3615679.89        2.29214
         485413.02    3615679.89        2.37620                       485063.02
3615729.89        1.92974
         485113.02    3615729.89        1.99239                       485163.02
3615729.89        2.05367
         485213.02    3615729.89        2.11974                       485263.02
3615729.89        2.18854
         485313.02    3615729.89        2.26219                       485363.02
3615729.89        2.34486
         485113.02    3615779.89        2.02285                       485163.02
3615779.89        2.09108
         485213.02    3615779.89        2.16100                       485263.02
3615779.89        2.23376
         485313.02    3615779.89        2.30975                       485163.02
3615829.89        2.12368
         485213.02    3615829.89        2.19597                       485263.02
3615829.89        2.27198
         485213.02    3615879.89        2.23257                       485552.29
3616096.26        3.12555
         486018.22    3615677.92        3.67143                       486003.19
3616494.55        5.90757
         486759.70    3615938.44        8.73146                       486118.42
3616108.78        5.47141
         486519.22    3615657.88        5.19920                       487082.35
3618053.22        0.63221
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***       11:59:01
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 ,
HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 ,
HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 ,
HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
487132.24	3618053.22	0.63720	487182.13	3618053.22	0.64797
487232.02	3618053.22	0.63063	487281.91	3618053.22	0.64124
486424.80	3617998.65	1.51483	486474.69	3617998.65	1.41926
486524.58	3617998.65	1.32981	486574.47	3617998.65	1.16670
486624.36	3617998.65	1.08631	486674.25	3617998.65	1.07832
486724.14	3617998.65	1.04066	486774.03	3617998.65	1.06146
486823.92	3617998.65	1.12599	486873.81	3617998.65	0.97768
486923.70	3617998.65	0.77036	486973.59	3617998.65	0.74270
487023.48	3617998.65	0.72987	487082.35	3618103.22	0.56968
487132.24	3618103.22	0.54700	487182.13	3618103.22	0.56089
486374.91	3618048.65	1.43907	486424.80	3618048.65	1.36729
486474.69	3618048.65	1.28263	486524.58	3618048.65	1.20962
486574.47	3618048.65	1.16230	486624.36		

3618048.65 1.14663
486674.25 3618048.65 1.16074 486724.14
3618048.65 1.12889
486774.03 3618048.65 1.12575 486823.92
3618048.65 0.85839
486873.81 3618048.65 0.78411 486923.70
3618048.65 0.70599
486973.59 3618048.65 0.65217 487023.48
3618048.65 0.66244
487082.35 3618153.22 0.50212 487132.24
3618153.22 0.49955
486325.02 3618098.65 1.34893 486374.91
3618098.65 1.29292
486424.80 3618098.65 1.23468 486474.69
3618098.65 1.17319
486524.58 3618098.65 1.12159 486574.47
3618098.65 1.09353
486624.36 3618098.65 1.10107 486674.25
3618098.65 1.20482
486724.14 3618098.65 1.36647 486774.03
3618098.65 0.98154
486823.92 3618098.65 0.73761 486873.81
3618098.65 0.67314
486923.70 3618098.65 0.67030 486973.59
3618098.65 0.62557
487023.48 3618098.65 0.60052 487082.35
3618203.22 0.47338
486275.13 3618148.65 1.22890 486325.02
3618148.65 1.22489
486374.91 3618148.65 1.16738 486424.80
3618148.65 1.12106
486474.69 3618148.65 1.08727 486524.58
3618148.65 1.06650
486574.47 3618148.65 1.10616 486624.36
3618148.65 1.27600
486674.25 3618148.65 1.44169 486724.14
3618148.65 1.19257
486774.03 3618148.65 0.93643 486823.92
3618148.65 0.74423
486873.81 3618148.65 0.69437 486923.70
3618148.65 0.64062
486973.59 3618148.65 0.60193 487023.48
3618148.65 0.57927
486225.24 3618198.65 1.23543 486275.13
3618198.65 1.18392
486325.02 3618198.65 1.06983 486374.91
3618198.65 1.04477
486424.80 3618198.65 1.01424 486474.69
3618198.65 1.03023
486524.58 3618198.65 1.08006 486574.47

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
486823.92	3618198.65	0.76706	486873.81	3618198.65	0.67290
486923.70	3618198.65	0.64644	486973.59	3618198.65	0.62420
487023.48	3618198.65	0.56080	486175.35	3618248.65	1.16261
486225.24	3618248.65	1.12254	486275.13	3618248.65	1.02079
486325.02	3618248.65	0.99214	486374.91	3618248.65	0.97361
486424.80	3618248.65	0.96590	486474.69	3618248.65	1.06037
486524.58	3618248.65	1.33767	486574.47	3618248.65	1.21771
486624.36	3618248.65	1.05429	486674.25	3618248.65	0.97458

```
        486724.14    3618248.65        0.91176                    486774.03
3618248.65        0.85547
        486823.92    3618248.65        0.74092                    486873.81
3618248.65        0.69913
        486923.70    3618248.65        0.66967                    486973.59
3618248.65        0.65011
        487023.48    3618248.65        0.58387                    486125.46
3618298.65        1.26111
        486175.35    3618298.65        1.12741                    486225.24
3618298.65        1.01196
        486275.13    3618298.65        0.95563                    486325.02
3618298.65        0.93462
        486374.91    3618298.65        0.93694                    486424.80
3618298.65        1.04661
        486474.69    3618298.65        1.19518                    486524.58
3618298.65        1.13737
        486574.47    3618298.65        1.04158                    486624.36
3618298.65        0.98340
        486674.25    3618298.65        0.94352                    486724.14
3618298.65        0.85027
        486774.03    3618298.65        0.80861                    486823.92
3618298.65        0.73919
        486873.81    3618298.65        0.67772                    486923.70
3618298.65        0.65445
        486125.46    3618348.65        1.23174                    486175.35
3618348.65        1.10288
        486225.24    3618348.65        0.92566                    486275.13
3618348.65        0.91007
        486325.02    3618348.65        0.91148                    486374.91
3618348.65        1.03850
        486424.80    3618348.65        1.16294                    486474.69
3618348.65        1.06771
        486524.58    3618348.65        0.98773                    486574.47
3618348.65        0.95757
        486624.36    3618348.65        0.94831                    486674.25
3618348.65        0.86944
        486724.14    3618348.65        0.81949                    486774.03
3618348.65        0.77789
        486823.92    3618348.65        0.74665                    486873.81
3618348.65        0.65609
        486125.46    3618398.65        1.20325                    486175.35
3618398.65        1.06277
        486225.24    3618398.65        0.82960                    486275.13
3618398.65        0.88138
        486325.02    3618398.65        1.03505                    486374.91
3618398.65        1.24928
        486424.80    3618398.65        1.00422                    486474.69
3618398.65        0.93741
        486524.58    3618398.65        0.91041                    486574.47
3618398.65        0.90118
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
486574.47	3618448.65	0.85783	486624.36	3618448.65	0.86489
486674.25	3618448.65	0.87670	486724.14	3618448.65	0.82862
486774.03	3618448.65	0.79591	486125.46	3618498.65	1.10744
486175.35	3618498.65	0.68162	486225.24		
486624.36	3618398.65	0.90250	486674.25	3618398.65	0.88148
486724.14	3618398.65	0.84508	486774.03	3618398.65	0.75125
486823.92	3618398.65	0.72272	486125.46	3618448.65	1.23285
486175.35	3618448.65	0.95562	486225.24	3618448.65	0.80075
486275.13	3618448.65	0.99890	486325.02	3618448.65	1.15890
486374.91	3618448.65	1.01688	486424.80	3618448.65	0.96356
486474.69	3618448.65	0.91814	486524.58	3618448.65	0.85718

```
3618498.65        0.67455
         486275.13    3618498.65        1.08036                    486325.02
3618498.65        1.08406
         486374.91    3618498.65        0.98522                    486424.80
3618498.65        0.90898
         486474.69    3618498.65        0.88768                    486524.58
3618498.65        0.87667
         486574.47    3618498.65        0.82875                    486624.36
3618498.65        0.83273
         486674.25    3618498.65        0.84661                    486125.46
3618548.65        1.07530
         486175.35    3618548.65        0.51471                    486225.24
3618548.65        0.87733
         486275.13    3618548.65        1.16034                    486325.02
3618548.65        1.09577
         486374.91    3618548.65        0.97050                    486424.80
3618548.65        0.91480
         486474.69    3618548.65        0.84595                    486524.58
3618548.65        0.85292
         486574.47    3618548.65        0.81711                    486624.36
3618548.65        0.80452
         485782.13    3617697.10        3.27153                    486117.99
3618113.14        1.60450
         487046.44    3616930.35       52.13123                    487001.92
3616865.64       60.94011
         487027.85    3616812.50       59.93861                    487059.32
3616825.09       62.34175
         487097.29    3616749.11       66.70134                    487391.33
3616829.05       51.51766
         487479.92    3616731.27       50.25410                    487502.82
3616688.63       40.08000
         487412.35    3616681.88       56.90267                    487364.99
3616592.30       56.73793
         487332.84    3616532.76       53.10699                    487293.41
3616472.19       46.85788
         487247.98    3616421.76       38.65670                    487197.40
3616436.07       42.11985
         487083.85    3616471.34       44.89254                    487021.64
3616518.54       48.04496
         486926.81    3616571.99       44.68778                    486895.57
3616630.03       46.41154
         486821.36    3616675.48       44.11801                    486753.38
3616756.79       39.30747
         486732.11    3616765.07       36.79333                    486714.34
3616771.99       34.51183
         486614.05    3616565.34       18.76447                    486419.27
3616678.32       12.96793
         486594.81    3616964.16       25.12862                    486605.37
3616981.34       26.83941
         486707.77    3616937.26       35.76620                    486905.55
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HAUL   ***
                                   INCLUDING SOURCE(S):   HAUL0001   , HAUL0002
 , HAUL0003   , HAUL0004   , HAUL0005   ,
                  HAUL0006   , HAUL0007   , HAUL0008   , HAUL0009   , HAUL0010
 , HAUL0011   , HAUL0012   , HAUL0013   ,
                  HAUL0014   , HAUL0015   , HAUL0016   , HAUL0017   , HAUL0018
 , HAUL0019   , HAUL0020   , HAUL0021   ,
                  HAUL0022   , HAUL0023   , HAUL0024   , HAUL0025   , HAUL0026
 , HAUL0027   , HAUL0028   , . . .   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                      ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

```
       488420.59   3616550.48        0.24365  (10051222)               488470.59
3616550.48        0.24470  (10120220)
       488520.59   3616550.48        0.24831  (10120220)               488570.59
3616550.48        0.25126  (10120220)
       488620.59   3616550.48        0.25243  (10120220)               487520.59
3616600.48        0.59256  (10120220)
       487570.59   3616600.48        0.64329  (10120220)               487620.59
3616600.48        0.66250  (10120220)
       487670.59   3616600.48        0.65504  (10120220)               487720.59
3616600.48        0.62617  (10120220)
       487770.59   3616600.48        0.58228  (10120220)               487820.59
3616600.48        0.52963  (10120220)
       487870.59   3616600.48        0.47363  (10120220)               487920.59
3616600.48        0.41864  (10120220)
       487970.59   3616600.48        0.36803  (10120220)               488020.59
3616600.48        0.34861  (10121005)
       488070.59   3616600.48        0.35159  (10121005)               488120.59
3616600.48        0.33607  (10121005)
       488170.59   3616600.48        0.30315  (10121005)               488220.59
3616600.48        0.29640  (10051222)
       488270.59   3616600.48        0.28515  (10051222)               488320.59
3616600.48        0.26775  (10051222)
       488370.59   3616600.48        0.25776  (10120220)               488420.59
3616600.48        0.26527  (10120220)
       488470.59   3616600.48        0.27058  (10120220)               488520.59
3616600.48        0.27252  (10120220)
       488570.59   3616600.48        0.27058  (10120220)               488620.59
3616600.48        0.26480  (10120220)
       487970.59   3616650.48        0.35107  (10121005)               488020.59
3616650.48        0.36842  (10121005)
       488070.59   3616650.48        0.35617  (10121005)               488120.59
3616650.48        0.32867  (10051222)
       488170.59   3616650.48        0.31827  (10051222)               488220.59
3616650.48        0.29672  (10051222)
       488270.59   3616650.48        0.27726  (10120220)               488320.59
3616650.48        0.29007  (10120220)
       488370.59   3616650.48        0.29738  (10120220)               488420.59
3616650.48        0.29676  (10120220)
       488470.59   3616650.48        0.29494  (10120220)               488520.59
3616650.48        0.28585  (10120220)
       488570.59   3616650.48        0.27276  (10120220)               488620.59
3616650.48        0.25685  (10120220)
       487520.59   3616700.48        0.76905  (10120220)               487570.59
3616700.48        0.66310  (10120220)
       487620.59   3616700.48        0.56339  (10120220)               487670.59
3616700.48        0.47311  (10012722)
       487720.59   3616700.48        0.46817  (10012722)               487770.59
3616700.48        0.43697  (10012722)
       487820.59   3616700.48        0.38770  (10012722)               487870.59
3616700.48        0.34763  (10111518)
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3616750.48 0.45362 (10012722)
487820.59 3616750.48 0.40392 (10111518) 487870.59
3616750.48 0.41386 (10051222)
487920.59 3616750.48 0.42631 (10051222) 487970.59
3616750.48 0.41220 (10051222)
488020.59 3616750.48 0.37769 (10051222) 488070.59
3616750.48 0.35611 (10120220)
488120.59 3616750.48 0.37451 (10120220) 488170.59
3616750.48 0.37984 (10120220)
488220.59 3616750.48 0.37298 (10120220) 488270.59
3616750.48 0.35643 (10120220)
488320.59 3616750.48 0.33521 (10120220) 488370.59
3616750.48 0.30881 (10120220)
488420.59 3616750.48 0.28049 (10120220) 488470.59
3616750.48 0.25266 (10120220)
488520.59 3616750.48 0.22653 (10120220) 488570.59
3616750.48 0.21540 (10051223)
488620.59 3616750.48 0.20022 (10051223) 487120.59
3616800.48 1.64816 (10120220)
487170.59 3616800.48 1.49823 (10120220) 487220.59
3616800.48 1.27230 (10120220)
487270.59 3616800.48 1.03892 (10120220) 487420.59
3616800.48 0.71049 (10111518)
487470.59 3616800.48 0.68661 (10111518) 487520.59
3616800.48 0.64837 (10111518)
487570.59 3616800.48 0.60829 (10111518) 487620.59
3616800.48 0.58795 (10012722)
487670.59 3616800.48 0.55923 (10012722) 487720.59
3616800.48 0.50754 (10012722)
487770.59 3616800.48 0.47584 (10051222) 487820.59
3616800.48 0.49990 (10051222)
487870.59 3616800.48 0.48477 (10051222) 487920.59
3616800.48 0.43884 (10051222)
487970.59 3616800.48 0.42781 (10120220) 488020.59
3616800.48 0.44679 (10120220)
488070.59 3616800.48 0.44546 (10120220) 488120.59
3616800.48 0.42501 (10120220)
488170.59 3616800.48 0.39506 (10120220) 488220.59
3616800.48 0.35942 (10120220)
488270.59 3616800.48 0.32137 (10120220) 488320.59
3616800.48 0.28767 (10120220)
488370.59 3616800.48 0.25408 (10120220) 488420.59
3616800.48 0.23906 (10051223)
488470.59 3616800.48 0.23497 (10051223) 488520.59
3616800.48 0.22211 (10051223)
488570.59 3616800.48 0.20256 (10051221) 488620.59
3616800.48 0.19463 (10051221)
486470.59 3616850.48 2.34120 (10122705) 486520.59
3616850.48 4.12718 (10012402)
487020.59 3616850.48 2.19426 (10120220) 487070.59

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 3616850.48        1.79139  (10120220)
        487120.59   3616850.48        1.38020  (10120220)                487170.59
 3616850.48        1.03163  (10120220)
        487220.59   3616850.48        0.87699  (10111518)                487270.59
 3616850.48        0.85228  (10111518)
        487320.59   3616850.48        0.82694  (10111518)                487370.59
 3616850.48        0.79854  (10111518)
        487420.59   3616850.48        0.79917  (10111518)                487470.59
 3616850.48        0.75749  (10111518)
        487520.59   3616850.48        0.70985  (10111518)                487570.59
 3616850.48        0.65980  (10111518)
        487620.59   3616850.48        0.63215  (10012722)                487670.59
 3616850.48        0.56734  (10012722)
        487720.59   3616850.48        0.59807  (10051222)                487770.59
 3616850.48        0.58585  (10051222)
        487820.59   3616850.48        0.52348  (10051222)                487870.59
 3616850.48        0.53331  (10120220)
        487920.59   3616850.48        0.54636  (10120220)                487970.59
 3616850.48        0.52558  (10120220)
        488020.59   3616850.48        0.48430  (10120220)                488070.59
 3616850.48        0.43372  (10120220)
🡅 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE 144
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  HAUL     ***
                                 INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
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       488120.59   3616850.48        0.38143  (10120220)               488170.59
3616850.48        0.33239  (10120220)
       488220.59   3616850.48        0.28903  (10120220)               488270.59
3616850.48        0.25949  (10111518)
       488320.59   3616850.48        0.25274  (10051223)               488370.59
3616850.48        0.25502  (10051223)
       488420.59   3616850.48        0.24575  (10051223)               488470.59
3616850.48        0.22758  (10051223)
       488520.59   3616850.48        0.20398  (10111518)               488570.59
3616850.48        0.19500  (10111518)
       488620.59   3616850.48        0.18821  (10111518)               486370.59
3616900.48        1.86068  (10122322)
       486420.59   3616900.48        2.49640  (10012006)               486470.59
3616900.48        2.75973  (10013022)
       486520.59   3616900.48        4.27774  (10112424)               487070.59
3616900.48        1.32073  (10051221)
       487120.59   3616900.48        1.14130  (10051221)               487170.59
3616900.48        1.00088  (10111518)
       487220.59   3616900.48        0.99129  (10111518)               487270.59
3616900.48        0.97387  (10111518)
       487320.59   3616900.48        0.91741  (10111518)               487370.59
3616900.48        0.93231  (10111518)
       487420.59   3616900.48        0.90252  (10111518)               487470.59
3616900.48        0.85070  (10111518)
       487520.59   3616900.48        0.78700  (10111518)               487570.59
3616900.48        0.74350  (10012722)
       487620.59   3616900.48        0.73665  (10051222)               487670.59
3616900.48        0.73597  (10051222)
       487720.59   3616900.48        0.65039  (10120220)               487770.59
3616900.48        0.69544  (10120220)
       487820.59   3616900.48        0.67877  (10120220)               487870.59
3616900.48        0.62075  (10120220)
       487920.59   3616900.48        0.54270  (10120220)               487970.59
3616900.48        0.46358  (10120220)
       488020.59   3616900.48        0.39226  (10120220)               488070.59
3616900.48        0.33352  (10111518)
       488120.59   3616900.48        0.31445  (10111518)               488170.59
3616900.48        0.29628  (10111518)
       488220.59   3616900.48        0.27700  (10111518)               488270.59
3616900.48        0.27040  (10051223)
       488320.59   3616900.48        0.26388  (10051223)               488370.59
3616900.48        0.25424  (10051223)
       488420.59   3616900.48        0.23035  (10051223)               488470.59
3616900.48        0.21579  (10111518)
       488520.59   3616900.48        0.20715  (10111518)               488570.59
3616900.48        0.20722  (10051222)
       488620.59   3616900.48        0.21144  (10051222)               486170.59
3616950.48        1.01314  (10021802)
       486220.59   3616950.48        1.16808  (10021802)               486370.59
3616950.48        1.88245  (10103103)
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       486420.59   3616950.48        2.75867  (10122322)                486470.59
 3616950.48        3.92169  (10122322)
       486520.59   3616950.48        5.47717  (10012006)                486570.59
 3616950.48       10.97752  (10012402)
       486720.59   3616950.48        8.93331  (10120220)                487020.59
 3616950.48        1.17921  (10111518)
       487070.59   3616950.48        1.13846  (10111518)                487120.59
 3616950.48        1.11085  (10111518)
       487170.59   3616950.48        1.11123  (10111518)                487220.59
 3616950.48        1.11228  (10111518)
       487270.59   3616950.48        1.10937  (10111518)                487320.59
 3616950.48        1.10385  (10111518)
       487370.59   3616950.48        1.09701  (10111518)                487420.59
 3616950.48        1.06518  (10111518)
       487470.59   3616950.48        0.99547  (10111518)                487520.59
 3616950.48        0.94335  (10051222)
       487570.59   3616950.48        0.99334  (10051222)                487620.59
 3616950.48        0.93725  (10120220)
       487670.59   3616950.48        0.95592  (10120220)                487720.59
 3616950.48        0.86109  (10120220)
       487770.59   3616950.48        0.72149  (10120220)                487820.59
 3616950.48        0.58592  (10120220)
       487870.59   3616950.48        0.47597  (10120220)                487920.59
 3616950.48        0.41914  (10111518)
       487970.59   3616950.48        0.39005  (10111518)                488020.59
 3616950.48        0.36392  (10111518)
       488070.59   3616950.48        0.34102  (10111518)                488120.59
 3616950.48        0.32044  (10111518)
       488170.59   3616950.48        0.30184  (10111518)                488220.59
 3616950.48        0.29454  (10091620)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 145
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  HAUL     ***
                                 INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
488270.59	3616950.48	0.28279	(10051223)	488320.59	3616950.48	0.25504	(10051223)
488370.59	3616950.48	0.24266	(10111518)	488420.59	3616950.48	0.22892	(10111518)
488470.59	3616950.48	0.22176	(10051222)	488520.59	3616950.48	0.22711	(10051222)
488570.59	3616950.48	0.22840	(10051222)	488620.59	3616950.48	0.22770	(10051222)
486170.59	3617000.48	0.95636	(10011401)	486220.59	3617000.48	1.12121	(10011401)
486270.59	3617000.48	1.34607	(10011401)	486320.59	3617000.48	1.66753	(10011401)
486370.59	3617000.48	2.15743	(10011401)	486420.59	3617000.48	2.98275	(10011401)
486470.59	3617000.48	4.51195	(10011401)	486520.59	3617000.48	8.07991	(10011401)
486570.59	3617000.48	20.37110	(10011401)	486620.59	3617000.48	16.72114	(10022022)
486670.59	3617000.48	6.25256	(10011218)	486720.59	3617000.48	3.67883	(10011218)
486770.59	3617000.48	2.50548	(10011218)	486820.59	3617000.48	1.86167	(10011218)
486970.59	3617000.48	1.32168	(10111518)	487020.59	3617000.48	1.27685	(10111518)
487070.59	3617000.48	1.25019	(10111518)	487120.59	3617000.48	1.24905	(10111518)
487170.59	3617000.48	1.25756	(10111518)	487220.59	3617000.48	1.28154	(10111518)
487270.59	3617000.48	1.30470	(10111518)	487320.59	3617000.48	1.33134	(10111518)
487370.59	3617000.48	1.35500	(10111518)	487420.59	3617000.48	1.36165	(10111518)
487470.59	3617000.48	1.39721	(10051222)	487520.59	3617000.48	1.60317	(10120220)
487570.59	3617000.48	1.40726	(10120220)	487620.59	3617000.48	1.04655	(10120220)
487670.59	3617000.48	0.78077	(10120220)	487720.59	3617000.48	0.60932	(10111518)
487770.59	3617000.48	0.55347	(10111518)	487820.59	3617000.48	0.50538	(10111518)
487870.59	3617000.48	0.46481	(10111518)	487920.59			

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 3617000.48         0.42967  (10111518)
       487970.59   3617000.48         0.39894  (10111518)                488020.59
 3617000.48         0.37183  (10111518)
       488070.59   3617000.48         0.34774  (10111518)                488120.59
 3617000.48         0.32620  (10111518)
       488170.59   3617000.48         0.31137  (10051223)                488220.59
 3617000.48         0.29503  (10051223)
       488270.59   3617000.48         0.33280  (10011218)                488320.59
 3617000.48         0.25674  (10111518)
       488370.59   3617000.48         0.24562  (10111518)                488420.59
 3617000.48         0.24487  (10051222)
       488470.59   3617000.48         0.24707  (10051222)                488520.59
 3617000.48         0.24394  (10051222)
       488570.59   3617000.48         0.23885  (10051222)                488620.59
 3617000.48         0.23160  (10051222)
       486170.59   3617050.48         0.82316  (10020323)                486220.59
 3617050.48         1.00155  (10020323)
       486270.59   3617050.48         1.23757  (10020323)                486320.59
 3617050.48         1.55298  (10020323)
       486370.59   3617050.48         1.97201  (10020323)                486420.59
 3617050.48         2.53384  (10020323)
       486470.59   3617050.48         3.02175  (10020323)                486520.59
 3617050.48         9.14366  (10120219)
       486570.59   3617050.48        12.77127  (10021622)                486620.59
 3617050.48        15.60081  (10093005)
       486670.59   3617050.48        11.07092  (10022022)                486720.59
 3617050.48         4.49197  (10101723)
       486770.59   3617050.48         2.13320  (10111518)                486820.59
 3617050.48         1.80448  (10111518)
       486870.59   3617050.48         1.60570  (10111518)                486920.59
 3617050.48         1.48397  (10111518)
       486970.59   3617050.48         1.41266  (10111518)                487020.59
 3617050.48         1.37747  (10111518)
       487070.59   3617050.48         1.38031  (10111518)                487120.59
 3617050.48         1.40526  (10111518)
       487170.59   3617050.48         1.45855  (10111518)                487220.59
 3617050.48         1.54325  (10111518)
       487270.59   3617050.48         1.65372  (10111518)                487320.59
 3617050.48         1.92507  (10051222)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 146
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  HAUL     ***
                                 INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
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 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        487370.59   3617050.48        2.43790  (10120220)               487420.59
 3617050.48        2.32059  (10120220)
        487470.59   3617050.48        1.67995  (10111518)               487520.59
 3617050.48        1.20806  (10111518)
        487570.59   3617050.48        0.95512  (10111518)               487620.59
 3617050.48        0.81225  (10111518)
        487670.59   3617050.48        0.71100  (10111518)               487720.59
 3617050.48        0.62701  (10111518)
        487770.59   3617050.48        0.56555  (10111518)               487820.59
 3617050.48        0.51479  (10111518)
        487870.59   3617050.48        0.47193  (10111518)               487920.59
 3617050.48        0.43517  (10111518)
        487970.59   3617050.48        0.40325  (10111518)               488020.59
 3617050.48        0.37525  (10111518)
        488070.59   3617050.48        0.34960  (10111518)               488120.59
 3617050.48        0.33081  (10111518)
        488170.59   3617050.48        0.31073  (10111518)               488220.59
 3617050.48        0.37557  (10011218)
        488270.59   3617050.48        0.40908  (10020422)               488320.59
 3617050.48        0.32251  (10011218)
        488370.59   3617050.48        0.26272  (10051222)               488420.59
 3617050.48        0.26092  (10051222)
        488470.59   3617050.48        0.26108  (10051222)               488520.59
 3617050.48        0.24832  (10051222)
        488570.59   3617050.48        0.23571  (10051222)               488620.59
 3617050.48        0.22304  (10051222)
        486220.59   3617100.48        0.92844  (10020323)               486270.59
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 3617100.48        3.67614  (10120219)
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       486520.59   3617100.48        2.95343  (10111518)               486570.59
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 3617100.48       11.66597  (10071502)
       486720.59   3617100.48        7.92595  (10022022)               486770.59
 3617100.48        5.26762  (10101723)
       486820.59   3617100.48        2.61372  (10101723)               486870.59
 3617100.48        1.60892  (10111518)
       486920.59   3617100.48        1.50736  (10111518)               486970.59
 3617100.48        1.48685  (10111518)
       487020.59   3617100.48        1.50540  (10111518)               487070.59
 3617100.48        1.56175  (10111518)
       487120.59   3617100.48        1.66769  (10111518)               487170.59
 3617100.48        1.87693  (10111518)
       487220.59   3617100.48        2.62828  (10051222)               487270.59
 3617100.48        1.96507  (10111518)
       487320.59   3617100.48        1.77254  (10111518)               487370.59
 3617100.48        1.67175  (10111518)
       487420.59   3617100.48        1.68999  (10111518)               487470.59
 3617100.48        2.08349  (10102919)
       487520.59   3617100.48        1.37646  (10022022)               487570.59
 3617100.48        0.98327  (10111518)
       487620.59   3617100.48        0.82244  (10111518)               487670.59
 3617100.48        0.70686  (10111518)
       487720.59   3617100.48        0.64007  (10121005)               487770.59
 3617100.48        0.55401  (10111518)
       487820.59   3617100.48        0.50832  (10020422)               487870.59
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       487920.59   3617100.48        0.47557  (10020422)               487970.59
 3617100.48        0.48200  (10020422)
       488020.59   3617100.48        0.57208  (10020422)               488070.59
 3617100.48        0.77184  (10020422)
       488120.59   3617100.48        0.74450  (10020422)               488170.59
 3617100.48        0.64715  (10020422)
       488220.59   3617100.48        0.72168  (10122505)               488270.59
 3617100.48        0.70133  (10122505)
       488320.59   3617100.48        0.37410  (10020422)               488370.59
 3617100.48        0.28104  (10051222)
       488420.59   3617100.48        0.26480  (10051222)               488470.59
 3617100.48        0.25401  (10051222)
       488520.59   3617100.48        0.23757  (10051222)               488570.59
 3617100.48        0.25307  (10011218)
       488620.59   3617100.48        0.30017  (10020422)               486270.59
 3617150.48        0.95975  (10111518)
       486320.59   3617150.48        1.32191  (10120219)               486370.59
 3617150.48        2.06836  (10120219)
       486420.59   3617150.48        1.85212  (10120219)               486470.59
 3617150.48        1.73173  (10111518)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
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                             *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HAUL   ***
                                INCLUDING SOURCE(S):   HAUL0001   , HAUL0002 , HAUL0003   , HAUL0004   , HAUL0005   ,
                                HAUL0006   , HAUL0007   , HAUL0008   , HAUL0009   , HAUL0010 , HAUL0011   , HAUL0012   , HAUL0013   ,
                                HAUL0014   , HAUL0015   , HAUL0016   , HAUL0017   , HAUL0018 , HAUL0019   , HAUL0020   , HAUL0021   ,
                                HAUL0022   , HAUL0023   , HAUL0024   , HAUL0025   , HAUL0026 , HAUL0027   , HAUL0028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                             ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

```
3617150.48        0.78411  (10020422)
       487720.59   3617150.48        0.76199  (10020422)                487770.59
3617150.48        0.83612  (10020422)
       487820.59   3617150.48        0.80753  (10020422)                487870.59
3617150.48        0.83433  (10020422)
       487920.59   3617150.48        0.84103  (10020422)                487970.59
3617150.48        0.82853  (10020422)
       488020.59   3617150.48        0.81194  (10020422)                488070.59
3617150.48        0.80200  (10122505)
       488120.59   3617150.48        0.77737  (10122505)                488170.59
3617150.48        0.76645  (10122505)
       488220.59   3617150.48        0.75889  (10122505)                488270.59
3617150.48        0.70433  (10020422)
       488320.59   3617150.48        0.54371  (10020422)                488370.59
3617150.48        0.46867  (10020422)
       488420.59   3617150.48        0.25666  (10051222)                488470.59
3617150.48        0.23372  (10051222)
       488520.59   3617150.48        0.21949  (10051222)                488570.59
3617150.48        0.33610  (10020422)
       488620.59   3617150.48        0.50101  (10020422)                485970.59
3617200.48        0.51944  (10111518)
       486020.59   3617200.48        0.56381  (10111518)                486220.59
3617200.48        0.82368  (10111518)
       486270.59   3617200.48        1.21792  (10120219)                486320.59
3617200.48        1.44875  (10120219)
       486370.59   3617200.48        1.27693  (10111518)                486420.59
3617200.48        1.38519  (10111518)
       486470.59   3617200.48        1.59416  (10111518)                486520.59
3617200.48        1.83552  (10021622)
       486570.59   3617200.48        5.46669  (10092521)                486620.59
3617200.48       10.59140  (10071504)
       486670.59   3617200.48        8.38309  (10093005)                486720.59
3617200.48        8.53716  (10071502)
       486770.59   3617200.48        7.17744  (10100223)                486820.59
3617200.48        5.74141  (10031321)
       486870.59   3617200.48        6.24734  (10022022)                486920.59
3617200.48        5.25249  (10101723)
       486970.59   3617200.48        3.51607  (10080805)                487020.59
3617200.48        2.55993  (10080805)
       487070.59   3617200.48        2.01704  (10122221)                487120.59
3617200.48        1.94865  (10122221)
       487170.59   3617200.48        1.78052  (10122221)                487220.59
3617200.48        1.64193  (10122221)
       487270.59   3617200.48        1.43717  (10122221)                487320.59
3617200.48        1.45536  (10020421)
       487370.59   3617200.48        1.40263  (10020421)                487420.59
3617200.48        1.47566  (10122222)
       487470.59   3617200.48        2.55605  (10093004)                487520.59
3617200.48        1.29587  (10082401)
       487570.59   3617200.48        1.17757  (10082401)                487620.59
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HAUL ***
INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 ,
HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 ,
HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 ,
HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
487970.59	3617200.48	0.85612	(10111022)	488020.59	3617200.48	0.84650	(10111022)
488070.59	3617200.48	0.81829	(10111022)	488120.59	3617200.48	0.78820	(10111022)
488170.59	3617200.48	0.75520	(10111022)	488220.59	3617200.48	0.71788	(10111022)
488270.59	3617200.48	0.67399	(10111022)	488320.59	3617200.48	0.49571	(10020422)
488370.59	3617200.48	0.50410	(10020422)	488420.59	3617200.48	0.29234	(10021518)
488470.59	3617200.48	0.22822	(10111518)	488520.59	3617200.48	0.21746	(10111518)
488570.59	3617200.48	0.27279	(10020422)	488620.59	3617200.48	0.50598	(10020422)

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       485920.59   3617250.48        0.47590  (10111518)              485970.59
3617250.48        0.51310  (10111518)
       486020.59   3617250.48        0.55518  (10111518)              486070.59
3617250.48        0.60299  (10111518)
       486170.59   3617250.48        0.78831  (10120219)              486220.59
3617250.48        1.02389  (10120219)
       486270.59   3617250.48        1.03297  (10120219)              486320.59
3617250.48        0.99861  (10111518)
       486370.59   3617250.48        1.14367  (10111518)              486420.59
3617250.48        1.30473  (10111518)
       486470.59   3617250.48        1.41877  (10111518)              486520.59
3617250.48        2.21180  (10021622)
       486570.59   3617250.48        4.97245  (10092521)              486620.59
3617250.48        8.59109  (10071504)
       486670.59   3617250.48        8.60077  (10071501)              486720.59
3617250.48        8.63971  (10093005)
       486770.59   3617250.48        6.43014  (10071502)              486820.59
3617250.48        5.76450  (10100223)
       486870.59   3617250.48        4.55598  (10031321)              486920.59
3617250.48        4.73450  (10022022)
       486970.59   3617250.48        4.56572  (10101723)              487020.59
3617250.48        3.67711  (10101723)
       487070.59   3617250.48        2.43924  (10080805)              487120.59
3617250.48        1.42094  (10101707)
       487170.59   3617250.48        1.45688  (10122221)              487220.59
3617250.48        1.59011  (10122221)
       487270.59   3617250.48        1.62877  (10122221)              487320.59
3617250.48        1.57199  (10122221)
       487370.59   3617250.48        1.53695  (10122222)              487420.59
3617250.48        1.74946  (10122222)
       487470.59   3617250.48        2.55274  (10102919)              487520.59
3617250.48        1.51612  (10122222)
       487570.59   3617250.48        1.26525  (10122222)              487620.59
3617250.48        1.10037  (10122222)
       487670.59   3617250.48        1.03014  (10101722)              487720.59
3617250.48        0.97985  (10101722)
       487770.59   3617250.48        0.92421  (10101722)              487820.59
3617250.48        0.90353  (10101722)
       487870.59   3617250.48        0.86764  (10101722)              487920.59
3617250.48        0.84222  (10082401)
       487970.59   3617250.48        0.82960  (10082401)              488020.59
3617250.48        0.81849  (10082401)
       488070.59   3617250.48        0.79643  (10082401)              488120.59
3617250.48        0.77739  (10082401)
       488170.59   3617250.48        0.75222  (10082401)              488220.59
3617250.48        0.73934  (10111022)
       488270.59   3617250.48        0.66863  (10111022)              488320.59
3617250.48        0.56286  (10111022)
       488370.59   3617250.48        0.61313  (10111022)              488420.59
3617250.48        0.34122  (10021518)
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3617300.48 5.50945 (10093005)
486770.59 3617300.48 7.31635 (10093003) 486820.59
3617300.48 4.42004 (10071502)
486870.59 3617300.48 4.58477 (10100223) 486920.59
3617300.48 3.95335 (10031321)
486970.59 3617300.48 3.41880 (10022022) 487020.59
3617300.48 3.33279 (10022022)
487070.59 3617300.48 3.02128 (10101723) 487120.59
3617300.48 2.14692 (10101707)
487170.59 3617300.48 1.53685 (10101707) 487220.59
3617300.48 1.46997 (10121522)
487270.59 3617300.48 1.44238 (10121522) 487320.59
3617300.48 1.44700 (10101702)
487370.59 3617300.48 1.46683 (10101702) 487420.59
3617300.48 1.63631 (10122221)
487470.59 3617300.48 2.63234 (10102919) 487520.59
3617300.48 1.53290 (10122222)
487570.59 3617300.48 1.32517 (10122222) 487620.59
3617300.48 1.19792 (10122222)
487670.59 3617300.48 1.07899 (10122222) 487720.59
3617300.48 0.99187 (10122222)
487770.59 3617300.48 0.89728 (10020421) 487820.59
3617300.48 0.87257 (10101722)
487870.59 3617300.48 0.85326 (10101722) 487920.59
3617300.48 0.82124 (10101722)
487970.59 3617300.48 0.80639 (10101722) 488020.59
3617300.48 0.78748 (10101722)
488070.59 3617300.48 0.76491 (10101722) 488120.59
3617300.48 0.73906 (10101722)
488170.59 3617300.48 0.71044 (10101722) 488220.59
3617300.48 0.70096 (10082401)
488270.59 3617300.48 0.69571 (10082401) 488320.59
3617300.48 0.66457 (10082401)
488370.59 3617300.48 0.67872 (10082401) 488420.59
3617300.48 0.35761 (10082401)
488470.59 3617300.48 0.22938 (10111518) 488520.59
3617300.48 0.58207 (10082401)
488570.59 3617300.48 0.37589 (10082401) 488620.59
3617300.48 0.19773 (10111518)
485870.59 3617350.48 0.43288 (10111518) 485920.59
3617350.48 0.46301 (10111518)
485970.59 3617350.48 0.49637 (10111518) 486020.59
3617350.48 0.53814 (10120219)
486070.59 3617350.48 0.64870 (10120219) 486120.59
3617350.48 0.67005 (10120219)
486170.59 3617350.48 0.69257 (10111518) 486220.59
3617350.48 0.76508 (10111518)
486270.59 3617350.48 0.81629 (10111518) 486320.59
3617350.48 0.87821 (10111518)
486370.59 3617350.48 0.92771 (10111518) 486420.59

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 3617350.48        1.00503  (10111518)
       486470.59   3617350.48        1.02330  (10111518)               486520.59
 3617350.48        2.47471  (10021622)
       486570.59   3617350.48        3.24629  (10092521)               486620.59
 3617350.48        6.03136  (10102919)
       486670.59   3617350.48        5.55421  (10011720)               486720.59
 3617350.48        4.21659  (10071501)
       486770.59   3617350.48        5.49052  (10093005)               486820.59
 3617350.48        5.68871  (10071502)
       486870.59   3617350.48        3.67366  (10100223)               486920.59
 3617350.48        3.39922  (10100223)
       486970.59   3617350.48        2.94669  (10031321)               487020.59
 3617350.48        2.64110  (10102520)
       487070.59   3617350.48        2.71045  (10022022)               487120.59
 3617350.48        2.51636  (10101723)
       487170.59   3617350.48        2.20185  (10101723)               487220.59
 3617350.48        1.64692  (10101707)
       487270.59   3617350.48        1.40501  (10121522)               487320.59
 3617350.48        1.49588  (10121522)
       487370.59   3617350.48        1.57132  (10121522)               487420.59
 3617350.48        1.77132  (10101702)
       487470.59   3617350.48        2.84004  (10102919)               487520.59
 3617350.48        1.43681  (10122221)
       487570.59   3617350.48        1.28084  (10122221)               487620.59
 3617350.48        1.16370  (10122221)
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:  HAUL     ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                     ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **
```

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
487670.59	3617350.48	1.04402	(10122222)	487720.59	3617350.48	0.97063	(10122222)
487770.59	3617350.48	0.93452	(10020421)	487820.59	3617350.48	0.87206	(10020421)
487870.59	3617350.48	0.78828	(10020421)	487920.59	3617350.48	0.73348	(10020421)
487970.59	3617350.48	0.71343	(10101722)	488020.59	3617350.48	0.71936	(10101722)
488070.59	3617350.48	0.72090	(10101722)	488120.59	3617350.48	0.71803	(10101722)
488170.59	3617350.48	0.71179	(10101722)	488220.59	3617350.48	0.71170	(10101722)
488270.59	3617350.48	0.68911	(10101722)	488320.59	3617350.48	0.66621	(10101722)
488370.59	3617350.48	0.60680	(10101722)	488420.59	3617350.48	0.41585	(10082401)
488470.59	3617350.48	0.22922	(10111518)	488520.59	3617350.48	0.23389	(10021518)
488570.59	3617350.48	0.21057	(10021518)	488620.59	3617350.48	0.19879	(10111518)
485870.59	3617400.48	0.42682	(10111518)	485920.59	3617400.48	0.45543	(10111518)
485970.59	3617400.48	0.50678	(10120219)	486020.59	3617400.48	0.56194	(10120219)
486070.59	3617400.48	0.55930	(10111518)	486120.59	3617400.48	0.61977	(10111518)
486170.59	3617400.48	0.67967	(10111518)	486220.59	3617400.48	0.71798	(10111518)
486270.59	3617400.48	0.76461	(10111518)	486320.59	3617400.48	0.80866	(10111518)
486370.59	3617400.48	0.84894	(10111518)	486420.59	3617400.48	0.88947	(10111518)
486470.59	3617400.48	0.92772	(10121401)	486520.59	3617400.48	2.47050	(10021622)
486570.59	3617400.48	2.66783	(10092521)	486620.59	3617400.48	4.92603	(10093004)
486670.59	3617400.48	4.41670	(10011720)	486720.59	3617400.48	4.23616	(10071501)
486770.59	3617400.48	3.56769	(10093005)	486820.59	3617400.48	4.37986	(10093003)
486870.59	3617400.48	3.92219	(10071502)	486920.59	3617400.48	2.93173	(10100223)
486970.59	3617400.48	2.47552	(10093001)	487020.59	3617400.48	2.13413	(10031321)
487070.59	3617400.48	2.01553	(10102520)	487120.59	3617400.48	2.08345	(10022022)

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       487170.59   3617400.48        1.99613  (10022022)               487220.59
 3617400.48        1.92328  (10101723)
       487270.59   3617400.48        1.66326  (10080805)               487320.59
 3617400.48        1.44912  (10080805)
       487370.59   3617400.48        1.58473  (10121522)               487420.59
 3617400.48        1.84692  (10121522)
       487470.59   3617400.48        3.03036  (10093004)               487520.59
 3617400.48        1.50720  (10101702)
       487570.59   3617400.48        1.25411  (10101702)               487620.59
 3617400.48        1.08286  (10101702)
       487670.59   3617400.48        1.03947  (10122221)               487720.59
 3617400.48        0.97030  (10122221)
       487770.59   3617400.48        0.89881  (10122221)               487820.59
 3617400.48        0.84203  (10122221)
       487870.59   3617400.48        0.79655  (10020421)               487920.59
 3617400.48        0.77269  (10020421)
       487970.59   3617400.48        0.75383  (10020421)               488020.59
 3617400.48        0.72580  (10020421)
       488070.59   3617400.48        0.69094  (10020421)               488120.59
 3617400.48        0.65156  (10020421)
       488170.59   3617400.48        0.64129  (10101722)               488220.59
 3617400.48        0.65516  (10101722)
       488270.59   3617400.48        0.65633  (10101722)               488320.59
 3617400.48        0.65437  (10101722)
       488370.59   3617400.48        0.64893  (10101722)               488420.59
 3617400.48        0.33010  (10020421)
       488470.59   3617400.48        0.22852  (10111518)               488520.59
 3617400.48        0.21787  (10111518)
       488570.59   3617400.48        0.20796  (10111518)               488620.59
 3617400.48        0.19829  (10111518)
       485870.59   3617450.48        0.42035  (10111518)               485920.59
 3617450.48        0.46193  (10120219)
       485970.59   3617450.48        0.48047  (10120219)               486020.59
 3617450.48        0.53014  (10111518)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 151
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  HAUL     ***
                                 INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
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HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026
, HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
486070.59	3617450.48	0.56857	(10111518)	486120.59	3617450.48	0.60222	(10111518)
486170.59	3617450.48	0.64193	(10111518)	486220.59	3617450.48	0.67070	(10111518)
486270.59	3617450.48	0.71523	(10111518)	486320.59	3617450.48	0.75195	(10111518)
486370.59	3617450.48	0.77716	(10111518)	486420.59	3617450.48	0.81896	(10111518)
486470.59	3617450.48	0.89289	(10043023)	486520.59	3617450.48	2.28450	(10021622)
486570.59	3617450.48	2.45761	(10092521)	486620.59	3617450.48	4.06690	(10093004)
486670.59	3617450.48	3.39374	(10021620)	486720.59	3617450.48	3.23580	(10071501)
486770.59	3617450.48	1.98092	(10071501)	486820.59	3617450.48	3.43276	(10093005)
486870.59	3617450.48	3.59758	(10093003)	486920.59	3617450.48	2.82152	(10071502)
486970.59	3617450.48	2.18351	(10100223)	487020.59	3617450.48	1.97074	(10093001)
487070.59	3617450.48	1.69475	(10031321)	487120.59	3617450.48	1.53166	(10102520)
487170.59	3617450.48	1.69441	(10022022)	487220.59	3617450.48	1.75832	(10022022)
487270.59	3617450.48	1.97371	(10101723)	487320.59	3617450.48	1.89684	(10101723)
487370.59	3617450.48	1.87892	(10080805)	487420.59	3617450.48	1.80777	(10121522)
487470.59	3617450.48	3.16759	(10093004)	487520.59	3617450.48	1.50945	(10121522)
487570.59	3617450.48	1.23420	(10121522)	487620.59	3617450.48	0.99154	(10101702)
487670.59	3617450.48	0.87409	(10101702)	487720.59	3617450.48	0.82302	(10101703)
487770.59	3617450.48	0.82302	(10122221)	487820.59	3617450.48	0.81265	(10122221)
487870.59	3617450.48	0.77332	(10122221)	487920.59			

3617450.48 0.74599 (10122221)
487970.59 3617450.48 0.71929 (10122221) 488020.59
3617450.48 0.67300 (10020421)
488070.59 3617450.48 0.67364 (10020421) 488120.59
3617450.48 0.67737 (10020421)
488170.59 3617450.48 0.64648 (10020421) 488220.59
3617450.48 0.64456 (10020421)
488270.59 3617450.48 0.61424 (10122222) 488320.59
3617450.48 0.56020 (10101722)
488370.59 3617450.48 0.57220 (10122222) 488420.59
3617450.48 0.23827 (10111518)
488470.59 3617450.48 0.22767 (10111518) 488520.59
3617450.48 0.21693 (10111518)
488570.59 3617450.48 0.20693 (10111518) 488620.59
3617450.48 0.19809 (10111518)
485870.59 3617500.48 0.42068 (10111518) 485920.59
3617500.48 0.43941 (10111518)
485970.59 3617500.48 0.46727 (10111518) 486020.59
3617500.48 0.51622 (10111518)
486070.59 3617500.48 0.54561 (10111518) 486120.59
3617500.48 0.58181 (10111518)
486170.59 3617500.48 0.60855 (10111518) 486220.59
3617500.48 0.64660 (10111518)
486270.59 3617500.48 0.66802 (10111518) 486320.59
3617500.48 0.69888 (10111518)
486370.59 3617500.48 0.70131 (10101023) 486420.59
3617500.48 0.73735 (10101023)
486470.59 3617500.48 0.99316 (10021622) 486520.59
3617500.48 2.06213 (10021622)
486570.59 3617500.48 2.09850 (10092521) 486620.59
3617500.48 3.43010 (10093004)
486670.59 3617500.48 2.77353 (10071504) 486720.59
3617500.48 2.75722 (10011720)
486770.59 3617500.48 2.15929 (10071501) 486820.59
3617500.48 2.45576 (10093005)
486870.59 3617500.48 2.57055 (10093003) 486920.59
3617500.48 2.51766 (10071502)
486970.59 3617500.48 1.86736 (10071502) 487020.59
3617500.48 1.75701 (10100223)
487070.59 3617500.48 1.63273 (10093001) 487120.59
3617500.48 1.37526 (10031321)
487170.59 3617500.48 1.39933 (10102520) 487220.59
3617500.48 1.59395 (10022022)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HAUL ***

INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
487270.59	3617500.48	2.06158	(10022022)	487320.59	3617500.48	2.18471	(10101723)
487370.59	3617500.48	2.31640	(10101723)	487420.59	3617500.48	2.17427	(10080805)
487470.59	3617500.48	2.97908	(10093004)	487520.59	3617500.48	1.21966	(10011720)
487570.59	3617500.48	0.86709	(10032605)	487620.59	3617500.48	0.78384	(10121522)
487670.59	3617500.48	0.79812	(10101702)	487720.59	3617500.48	0.75516	(10101702)
487770.59	3617500.48	0.73361	(10101702)	487820.59	3617500.48	0.70020	(10101703)
487870.59	3617500.48	0.68921	(10101703)	487920.59	3617500.48	0.68494	(10122221)
487970.59	3617500.48	0.67683	(10122221)	488020.59	3617500.48	0.63561	(10122221)
488070.59	3617500.48	0.61741	(10122221)	488120.59	3617500.48	0.58374	(10122221)
488170.59	3617500.48	0.57356	(10020421)	488220.59	3617500.48	0.60474	(10020421)
488270.59	3617500.48	0.60640	(10020421)	488320.59	3617500.48	0.58213	(10020421)
488370.59	3617500.48	0.62313	(10122222)	488420.59	3617500.48	0.23838	(10111518)
488470.59	3617500.48	0.22650	(10111518)	488520.59	3617500.48	0.21590	(10111518)
488570.59	3617500.48	0.20602	(10111518)	488620.59	3617500.48	0.19728	(10111518)

```
       485870.59   3617550.48        0.42122  (10111518)               485920.59
3617550.48        0.44754  (10111518)
       485970.59   3617550.48        0.47390  (10111518)               486020.59
3617550.48        0.50030  (10111518)
       486070.59   3617550.48        0.53150  (10111518)               486120.59
3617550.48        0.55615  (10111518)
       486170.59   3617550.48        0.58864  (10111518)               486220.59
3617550.48        0.61402  (10111518)
       486270.59   3617550.48        0.63562  (10111518)               486320.59
3617550.48        0.64234  (10121401)
       486370.59   3617550.48        0.66788  (10101023)               486420.59
3617550.48        0.81546  (10043023)
       486470.59   3617550.48        1.10807  (10021622)               486520.59
3617550.48        1.86193  (10021622)
       486570.59   3617550.48        1.77828  (10092521)               486620.59
3617550.48        2.77917  (10093004)
       486670.59   3617550.48        2.42778  (10071504)               486720.59
3617550.48        2.36762  (10011720)
       486770.59   3617550.48        2.07604  (10071501)               486820.59
3617550.48        1.40473  (10032101)
       486870.59   3617550.48        2.03011  (10093005)               486920.59
3617550.48        2.31595  (10093003)
       486970.59   3617550.48        1.76888  (10041721)               487020.59
3617550.48        1.45754  (10111521)
       487070.59   3617550.48        1.32495  (10093001)               487120.59
3617550.48        1.38287  (10093001)
       487170.59   3617550.48        1.17954  (10093001)               487220.59
3617550.48        1.20726  (10102520)
       487270.59   3617550.48        1.86835  (10102520)               487320.59
3617550.48        2.21777  (10022022)
       487370.59   3617550.48        2.46878  (10051223)               487420.59
3617550.48        1.54706  (10101723)
       487470.59   3617550.48        1.48994  (10093004)               487520.59
3617550.48        1.16025  (10101707)
       487570.59   3617550.48        0.91722  (10101707)               487620.59
3617550.48        0.77958  (10032605)
       487670.59   3617550.48        0.71694  (10032605)               487720.59
3617550.48        0.66635  (10101702)
       487770.59   3617550.48        0.68457  (10101702)               487820.59
3617550.48        0.68950  (10101702)
       487870.59   3617550.48        0.65722  (10101702)               487920.59
3617550.48        0.61423  (10101702)
       487970.59   3617550.48        0.54896  (10101703)               488020.59
3617550.48        0.52894  (10101703)
       488070.59   3617550.48        0.51086  (10101703)               488120.59
3617550.48        0.51731  (10122221)
       488170.59   3617550.48        0.52812  (10122221)               488220.59
3617550.48        0.55532  (10122221)
       488270.59   3617550.48        0.58143  (10122221)               488320.59
3617550.48        0.58307  (10122221)
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HAUL ***
INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 ,
HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 ,
HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 ,
HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
488470.59	3617550.48	0.22500	(10111518)	488520.59	3617550.48	0.21457	(10111518)
488570.59	3617550.48	0.20484	(10111518)	488620.59	3617550.48	0.19615	(10111518)
485870.59	3617600.48	0.41446	(10111518)	485920.59	3617600.48	0.43590	(10111518)
485970.59	3617600.48	0.46173	(10111518)	486020.59	3617600.48	0.48900	(10111518)
486070.59	3617600.48	0.51000	(10111518)	486120.59	3617600.48	0.54043	(10111518)
486170.59	3617600.48	0.57177	(10111518)	486220.59	3617600.48	0.58350	(10111518)
486270.59	3617600.48	0.61736	(10111518)	486320.59	3617600.48	0.61275	(10101023)
486370.59	3617600.48	0.62107	(10043023)	486420.59	3617600.48	0.88935	(10043023)
486470.59	3617600.48	1.20799	(10021622)	486520.59	3617600.48	1.60951	(10021622)
486570.59	3617600.48	1.50966	(10092521)	486620.59			

3617600.48 2.35192 (10093004)
486670.59 3617600.48 2.07171 (10071504) 486720.59
3617600.48 2.14141 (10011720)
486770.59 3617600.48 1.65450 (10071501) 486820.59
3617600.48 1.08421 (10032101)
486870.59 3617600.48 1.55344 (10093005) 486920.59
3617600.48 1.58480 (10093003)
486970.59 3617600.48 1.62699 (10093003) 487020.59
3617600.48 1.28858 (10041721)
487070.59 3617600.48 1.30841 (10111521) 487120.59
3617600.48 1.31559 (10111521)
487170.59 3617600.48 1.31797 (10093001) 487220.59
3617600.48 1.34719 (10110804)
487270.59 3617600.48 2.12529 (10102520) 487320.59
3617600.48 2.42611 (10102520)
487370.59 3617600.48 1.13349 (10022022) 487420.59
3617600.48 1.02762 (10022022)
487470.59 3617600.48 1.05779 (10093004) 487520.59
3617600.48 0.94035 (10101707)
487570.59 3617600.48 0.98455 (10101707) 487620.59
3617600.48 0.87758 (10101707)
487670.59 3617600.48 0.73246 (10101707) 487720.59
3617600.48 0.67452 (10032605)
487770.59 3617600.48 0.63006 (10032605) 487820.59
3617600.48 0.56212 (10101702)
487870.59 3617600.48 0.57580 (10101702) 487920.59
3617600.48 0.55495 (10101702)
487970.59 3617600.48 0.49003 (10101702) 488020.59
3617600.48 0.43530 (10101703)
488070.59 3617600.48 0.47992 (10101703) 488120.59
3617600.48 0.47953 (10101703)
488170.59 3617600.48 0.49802 (10101703) 488220.59
3617600.48 0.53193 (10122221)
488270.59 3617600.48 0.61194 (10122221) 488320.59
3617600.48 0.64876 (10122221)
488370.59 3617600.48 0.50532 (10122221) 488420.59
3617600.48 0.27883 (10122221)
488470.59 3617600.48 0.22320 (10111518) 488520.59
3617600.48 0.21297 (10111518)
488570.59 3617600.48 0.20341 (10111518) 488620.59
3617600.48 0.19471 (10111518)
485870.59 3617650.48 0.40696 (10111518) 485920.59
3617650.48 0.42829 (10111518)
485970.59 3617650.48 0.45296 (10111518) 486020.59
3617650.48 0.47316 (10111518)
486070.59 3617650.48 0.49942 (10111518) 486120.59
3617650.48 0.52824 (10111518)
486170.59 3617650.48 0.54244 (10111518) 486220.59
3617650.48 0.57013 (10111518)
486270.59 3617650.48 0.57877 (10121401) 486320.59

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HAUL ***
INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 ,
HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 ,
HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 ,
HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
486870.59	3617650.48	1.07651	(10032101)	486920.59	3617650.48	1.14264	(10121820)
486970.59	3617650.48	1.40316	(10093003)	487020.59	3617650.48	1.37727	(10071506)
487070.59	3617650.48	1.18405	(10111521)	487120.59	3617650.48	1.46300	(10111521)
487170.59	3617650.48	1.70280	(10093001)	487220.59	3617650.48	2.35848	(10093001)
487270.59	3617650.48	1.95445	(10093001)	487320.59	3617650.48	1.10293	(10102520)

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       487370.59   3617650.48        0.88798  (10022021)               487420.59
3617650.48        0.72464  (10022022)
       487470.59   3617650.48        0.81003  (10093004)               487520.59
3617650.48        0.71853  (10100507)
       487570.59   3617650.48        0.73563  (10100507)               487620.59
3617650.48        0.80205  (10101707)
       487670.59   3617650.48        0.81150  (10101707)               487720.59
3617650.48        0.72924  (10101707)
       487770.59   3617650.48        0.61146  (10032605)               487820.59
3617650.48        0.55894  (10032605)
       487870.59   3617650.48        0.51423  (10121521)               487920.59
3617650.48        0.46084  (10101702)
       487970.59   3617650.48        0.47245  (10101702)               488020.59
3617650.48        0.47520  (10101702)
       488070.59   3617650.48        0.44874  (10101702)               488120.59
3617650.48        0.49942  (10101702)
       488170.59   3617650.48        0.54820  (10101702)               488220.59
3617650.48        0.55264  (10101702)
       488270.59   3617650.48        0.55276  (10122221)               488320.59
3617650.48        0.58432  (10122221)
       488370.59   3617650.48        0.54782  (10122221)               488420.59
3617650.48        0.30154  (10101723)
       488470.59   3617650.48        0.25369  (10101723)               488520.59
3617650.48        0.21110  (10111518)
       488570.59   3617650.48        0.20174  (10111518)               488620.59
3617650.48        0.19345  (10111518)
       485870.59   3617700.48        0.39883  (10111518)               485920.59
3617700.48        0.41903  (10111518)
       485970.59   3617700.48        0.44021  (10111518)               486020.59
3617700.48        0.46383  (10111518)
       486070.59   3617700.48        0.48425  (10111518)               486120.59
3617700.48        0.50499  (10111518)
       486170.59   3617700.48        0.52966  (10111518)               486220.59
3617700.48        0.53952  (10121401)
       486270.59   3617700.48        0.54666  (10101023)               486320.59
3617700.48        0.55181  (10101023)
       486370.59   3617700.48        0.73137  (10043023)               486420.59
3617700.48        0.85559  (10043023)
       486470.59   3617700.48        1.25141  (10021622)               486520.59
3617700.48        1.17819  (10021622)
       486570.59   3617700.48        1.11557  (10092521)               486620.59
3617700.48        1.69948  (10093004)
       486670.59   3617700.48        1.58302  (10102919)               486720.59
3617700.48        1.48151  (10011720)
       486770.59   3617700.48        1.34771  (10011720)               486820.59
3617700.48        1.06257  (10101107)
       486870.59   3617700.48        0.88204  (10101107)               486920.59
3617700.48        1.06865  (10121820)
       486970.59   3617700.48        1.12728  (10093003)               487020.59
3617700.48        1.43272  (10093003)
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       487070.59   3617700.48        1.48009  (10071506)               487120.59
 3617700.48        1.51553  (10111521)
       487170.59   3617700.48        2.20574  (10121005)               487220.59
 3617700.48        1.83471  (10093001)
       487270.59   3617700.48        1.26808  (10093001)               487320.59
 3617700.48        0.97102  (10110804)
       487370.59   3617700.48        0.79481  (10110804)               487420.59
 3617700.48        0.67958  (10022021)
       487470.59   3617700.48        0.55303  (10041605)               487520.59
 3617700.48        0.57100  (10101720)
       487570.59   3617700.48        0.59572  (10100507)               487620.59
 3617700.48        0.65250  (10100507)
       487670.59   3617700.48        0.69188  (10101707)               487720.59
 3617700.48        0.74225  (10101707)
       487770.59   3617700.48        0.69666  (10101707)               487820.59
 3617700.48        0.61159  (10101707)
       487870.59   3617700.48        0.50181  (10032605)               487920.59
 3617700.48        0.47245  (10032605)
       487970.59   3617700.48        0.46419  (10121521)               488020.59
 3617700.48        0.44692  (10101702)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 155
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  HAUL     ***
                                 INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       488070.59   3617700.48        0.51115  (10101702)               488120.59
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3617700.48        0.59069  (10101702)
       488170.59   3617700.48        0.60408  (10101702)                488220.59
3617700.48        0.61565  (10101702)
       488270.59   3617700.48        0.60327  (10101702)                488320.59
3617700.48        0.57731  (10101702)
       488370.59   3617700.48        0.49385  (10122221)                488420.59
3617700.48        0.36251  (10101723)
       488470.59   3617700.48        0.31469  (10101723)                488520.59
3617700.48        0.26543  (10101723)
       488570.59   3617700.48        0.22173  (10101723)                488620.59
3617700.48        0.19145  (10111518)
       485870.59   3617750.48        0.39113  (10111518)                485920.59
3617750.48        0.40977  (10111518)
       485970.59   3617750.48        0.43161  (10111518)                486020.59
3617750.48        0.44367  (10111518)
       486070.59   3617750.48        0.46825  (10111518)                486120.59
3617750.48        0.49158  (10111518)
       486170.59   3617750.48        0.50518  (10111518)                486220.59
3617750.48        0.51517  (10101023)
       486270.59   3617750.48        0.52345  (10101023)                486320.59
3617750.48        0.53885  (10101023)
       486370.59   3617750.48        0.73665  (10043023)                486420.59
3617750.48        0.80718  (10043023)
       486470.59   3617750.48        1.22298  (10021622)                486520.59
3617750.48        1.01097  (10021622)
       486570.59   3617750.48        1.03986  (10092521)                486620.59
3617750.48        1.46347  (10093004)
       486670.59   3617750.48        1.36367  (10102919)                486720.59
3617750.48        1.22921  (10011720)
       486770.59   3617750.48        1.30414  (10011720)                486820.59
3617750.48        1.09566  (10101107)
       486870.59   3617750.48        0.99233  (10101107)                486920.59
3617750.48        0.99648  (10121820)
       486970.59   3617750.48        1.20725  (10121820)                487020.59
3617750.48        1.43315  (10102019)
       487070.59   3617750.48        1.74524  (10071506)                487120.59
3617750.48        2.28865  (10121005)
       487170.59   3617750.48        1.56403  (10111521)                487220.59
3617750.48        1.25844  (10111521)
       487270.59   3617750.48        1.02213  (10111521)                487320.59
3617750.48        0.82810  (10101421)
       487370.59   3617750.48        0.71427  (10110804)                487420.59
3617750.48        0.58417  (10110804)
       487470.59   3617750.48        0.45922  (10041102)                487520.59
3617750.48        0.44276  (10041605)
       487570.59   3617750.48        0.45096  (10101720)                487620.59
3617750.48        0.48421  (10100507)
       487670.59   3617750.48        0.57705  (10100507)                487720.59
3617750.48        0.61293  (10100507)
       487770.59   3617750.48        0.61620  (10101707)                487820.59
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 3617750.48        0.64092  (10101707)
       487870.59   3617750.48        0.60679  (10101707)               487920.59
 3617750.48        0.52585  (10101707)
       487970.59   3617750.48        0.49874  (10032605)               488020.59
 3617750.48        0.50371  (10032605)
       488070.59   3617750.48        0.57544  (10032605)               488120.59
 3617750.48        0.64087  (10121522)
       488170.59   3617750.48        0.63083  (10121522)               488220.59
 3617750.48        0.62659  (10121522)
       488270.59   3617750.48        0.58165  (10121522)               488320.59
 3617750.48        0.49937  (10121522)
       488370.59   3617750.48        0.40514  (10101723)               488420.59
 3617750.48        0.40342  (10101723)
       488470.59   3617750.48        0.36572  (10101723)               488520.59
 3617750.48        0.32147  (10101723)
       488570.59   3617750.48        0.27560  (10101723)               488620.59
 3617750.48        0.23280  (10101723)
       485870.59   3617800.48        0.38331  (10111518)               485920.59
 3617800.48        0.40392  (10111518)
       485970.59   3617800.48        0.41623  (10111518)               486020.59
 3617800.48        0.43831  (10111518)
       486070.59   3617800.48        0.46182  (10111518)               486120.59
 3617800.48        0.46156  (10101023)
       486170.59   3617800.48        0.48101  (10101023)               486220.59
 3617800.48        0.49321  (10101023)
       486270.59   3617800.48        0.50697  (10101023)               486370.59
 3617800.48        0.80171  (10021621)
       486420.59   3617800.48        0.83773  (10021621)               486470.59
 3617800.48        1.18742  (10021622)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE 156
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  HAUL     ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
486520.59	3617800.48	0.95630	(10121022)	486570.59	3617800.48	0.93728	(10120320)
486620.59	3617800.48	1.29309	(10092521)	486670.59	3617800.48	1.15553	(10092820)
486720.59	3617800.48	1.00108	(10011720)	486770.59	3617800.48	1.10643	(10011720)
486820.59	3617800.48	1.17167	(10101107)	486870.59	3617800.48	1.12622	(10101107)
486920.59	3617800.48	1.10329	(10111518)	486970.59	3617800.48	1.28830	(10121820)
487020.59	3617800.48	1.48898	(10021519)	487070.59	3617800.48	2.53181	(10051223)
487120.59	3617800.48	1.36307	(10041721)	487170.59	3617800.48	1.12914	(10041721)
487220.59	3617800.48	0.92074	(10111521)	487270.59	3617800.48	0.88119	(10111521)
487320.59	3617800.48	0.64985	(10090723)	487370.59	3617800.48	0.56519	(10101421)
487420.59	3617800.48	0.57218	(10110804)	487470.59	3617800.48	0.48253	(10110804)
487520.59	3617800.48	0.40892	(10041102)	487570.59	3617800.48	0.39073	(10041605)
487620.59	3617800.48	0.44494	(10041605)	487670.59	3617800.48	0.47429	(10101720)
487720.59	3617800.48	0.49528	(10100507)	487770.59	3617800.48	0.52236	(10100507)
487820.59	3617800.48	0.54658	(10100507)	487870.59	3617800.48	0.61839	(10101707)
487920.59	3617800.48	0.69883	(10101707)	487970.59	3617800.48	0.70085	(10101707)
488020.59	3617800.48	0.73096	(10101707)	488070.59	3617800.48	0.66319	(10101707)
488120.59	3617800.48	0.60863	(10101707)	488170.59	3617800.48	0.56805	(10101723)
488220.59	3617800.48	0.55668	(10022022)	488270.59	3617800.48	0.55900	(10022022)
488320.59	3617800.48	0.49669	(10022022)	488370.59	3617800.48	0.47506	(10022022)
488420.59	3617800.48	0.43656	(10022022)	488470.59	3617800.48	0.39656	(10101723)
488520.59	3617800.48	0.36414	(10101723)	488570.59	3617800.48	0.32559	(10101723)

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       488620.59   3617800.48        0.28421  (10101723)               485870.59
 3617850.48        0.37845  (10111518)
       485920.59   3617850.48        0.39525  (10111518)               485970.59
 3617850.48        0.41100  (10111518)
       486020.59   3617850.48        0.43041  (10111518)               486070.59
 3617850.48        0.43268  (10101023)
       486120.59   3617850.48        0.45173  (10101023)               486170.59
 3617850.48        0.46555  (10101023)
       486220.59   3617850.48        0.48176  (10101023)               486420.59
 3617850.48        0.80315  (10021621)
       486470.59   3617850.48        1.11131  (10021622)               486520.59
 3617850.48        0.96464  (10121022)
       486570.59   3617850.48        0.95865  (10120320)               486620.59
 3617850.48        1.07417  (10092521)
       486670.59   3617850.48        1.01940  (10092820)               486720.59
 3617850.48        0.92135  (10121401)
       486770.59   3617850.48        1.01844  (10101107)               486820.59
 3617850.48        1.22173  (10101107)
       486870.59   3617850.48        1.28272  (10101107)               486920.59
 3617850.48        1.30480  (10111518)
       486970.59   3617850.48        1.59182  (10111518)               487020.59
 3617850.48        2.36866  (10051223)
       487070.59   3617850.48        1.23052  (10101906)               487120.59
 3617850.48        0.99500  (10101906)
       487170.59   3617850.48        0.81453  (10041721)               487220.59
 3617850.48        0.72136  (10041721)
       487270.59   3617850.48        0.62099  (10111521)               487320.59
 3617850.48        0.59285  (10111521)
       487370.59   3617850.48        0.51632  (10073106)               487420.59
 3617850.48        0.48516  (10101421)
       487470.59   3617850.48        0.50236  (10110804)               487520.59
 3617850.48        0.46541  (10110804)
       487570.59   3617850.48        0.40583  (10022021)               487620.59
 3617850.48        0.42556  (10022021)
       487670.59   3617850.48        0.41452  (10041605)               487720.59
 3617850.48        0.40738  (10101720)
       487770.59   3617850.48        0.42304  (10101720)               487820.59
 3617850.48        0.47663  (10100507)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 157
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  HAUL     ***
                                 INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
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                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        487870.59   3617850.48        0.57083  (10100507)               487920.59
 3617850.48        0.69099  (10101707)
        487970.59   3617850.48        0.81296  (10101707)               488020.59
 3617850.48        0.87580  (10101707)
        488070.59   3617850.48        0.89494  (10101707)               488120.59
 3617850.48        0.92190  (10080805)
        488170.59   3617850.48        0.77680  (10080805)               488220.59
 3617850.48        0.65462  (10080805)
        488270.59   3617850.48        0.57624  (10101723)               488320.59
 3617850.48        0.54852  (10022022)
        488370.59   3617850.48        0.49205  (10022022)               488420.59
 3617850.48        0.47056  (10022022)
        488470.59   3617850.48        0.42800  (10022022)               488520.59
 3617850.48        0.38912  (10101723)
        488570.59   3617850.48        0.36110  (10101723)               488620.59
 3617850.48        0.32807  (10101723)
        485870.59   3617900.48        0.37093  (10111518)               485920.59
 3617900.48        0.38575  (10111518)
        485970.59   3617900.48        0.40715  (10111518)               486020.59
 3617900.48        0.40659  (10101023)
        486070.59   3617900.48        0.42750  (10101023)               486120.59
 3617900.48        0.43970  (10101023)
        486170.59   3617900.48        0.45704  (10101023)               486470.59
 3617900.48        1.03563  (10121022)
        486520.59   3617900.48        0.95867  (10121022)               486570.59
 3617900.48        0.98730  (10120320)
        486620.59   3617900.48        0.92490  (10092904)               486670.59
 3617900.48        0.91999  (10121401)
        486720.59   3617900.48        0.92928  (10121401)               486770.59
 3617900.48        1.03515  (10101107)
        486820.59   3617900.48        1.29005  (10101107)               486870.59
 3617900.48        1.47810  (10101107)
        486920.59   3617900.48        1.75826  (10120606)               486970.59
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       487020.59   3617900.48        1.17857  (10101906)                487070.59
 3617900.48        0.97631  (10101906)
       487120.59   3617900.48        0.74418  (10101906)                487170.59
 3617900.48        0.62289  (10041721)
       487220.59   3617900.48        0.65900  (10041721)                487270.59
 3617900.48        0.59082  (10041721)
       487320.59   3617900.48        0.49833  (10111521)                487370.59
 3617900.48        0.47586  (10111919)
       487420.59   3617900.48        0.45865  (10073106)                487470.59
 3617900.48        0.42661  (10101421)
       487520.59   3617900.48        0.43759  (10110804)                487570.59
 3617900.48        0.41759  (10110804)
       487620.59   3617900.48        0.35529  (10041102)                487670.59
 3617900.48        0.34520  (10041102)
       487720.59   3617900.48        0.34336  (10041605)                487770.59
 3617900.48        0.35237  (10101720)
       487820.59   3617900.48        0.41491  (10101720)                487870.59
 3617900.48        0.50459  (10101720)
       487920.59   3617900.48        0.72568  (10101723)                487970.59
 3617900.48        1.04920  (10101723)
       488020.59   3617900.48        1.05433  (10101723)                488070.59
 3617900.48        1.18675  (10101723)
       488120.59   3617900.48        1.13994  (10101723)                488170.59
 3617900.48        0.95156  (10080805)
       488220.59   3617900.48        0.76489  (10080805)                488270.59
 3617900.48        0.65396  (10080805)
       488320.59   3617900.48        0.55036  (10080805)                488370.59
 3617900.48        0.49145  (10101723)
       488420.59   3617900.48        0.48005  (10022022)                488470.59
 3617900.48        0.45492  (10022022)
       488520.59   3617900.48        0.42107  (10022022)                488570.59
 3617900.48        0.38266  (10101723)
       488620.59   3617900.48        0.35807  (10101723)                485870.59
 3617950.48        0.36215  (10111518)
       485920.59   3617950.48        0.38223  (10111518)                485970.59
 3617950.48        0.39156  (10111518)
       486020.59   3617950.48        0.40426  (10101023)                486070.59
 3617950.48        0.41505  (10101023)
       487077.48   3618005.05        0.52270  (10093002)                487127.48
 3618005.05        0.41686  (10041720)
       487177.48   3618005.05        0.45724  (10100103)                487227.48
 3618005.05        0.39968  (10041721)
       487277.48   3618005.05        0.52114  (10041721)                487327.48
 3618005.05        0.45081  (10041721)
       486470.59   3617950.48        1.04228  (10121022)                486520.59
 3617950.48        0.95815  (10111620)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HAUL ***
INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
486570.59	3617950.48	1.01407	(10120320)	486620.59	3617950.48	0.96309	(10092904)
486670.59	3617950.48	0.95100	(10121401)	486720.59	3617950.48	1.00167	(10121401)
486770.59	3617950.48	1.08785	(10121401)	486820.59	3617950.48	1.46243	(10101107)
486870.59	3617950.48	1.91630	(10120606)	486920.59	3617950.48	1.71219	(10101906)
486970.59	3617950.48	1.22522	(10101906)	487020.59	3617950.48	0.93893	(10101906)
487070.59	3617950.48	0.66157	(10101906)	487120.59	3617950.48	0.51248	(10051222)
487170.59	3617950.48	0.49243	(10100103)	487220.59	3617950.48	0.55075	(10041721)
487270.59	3617950.48	0.56712	(10041721)	487320.59	3617950.48	0.46331	(10050823)
487370.59	3617950.48	0.40680	(10111521)	487420.59	3617950.48	0.40885	(10073106)
487470.59	3617950.48	0.42155	(10073106)	487520.59	3617950.48	0.38678	(10101421)
487570.59	3617950.48	0.39791	(10110804)	487620.59	3617950.48	0.38430	(10110804)
487670.59	3617950.48	0.32928	(10110804)	487720.59	3617950.48	0.31736	(10072121)

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       487770.59   3617950.48        0.33108  (10041605)               487820.59
3617950.48        0.36393  (10041605)
       487870.59   3617950.48        0.49463  (10101720)               487920.59
3617950.48        0.94217  (10022022)
       487970.59   3617950.48        1.10508  (10101723)               488020.59
3617950.48        1.22839  (10101723)
       488070.59   3617950.48        1.36954  (10101723)               488120.59
3617950.48        1.33417  (10101723)
       488170.59   3617950.48        0.94970  (10101723)               488220.59
3617950.48        0.80363  (10101707)
       488270.59   3617950.48        0.73166  (10101707)               488320.59
3617950.48        0.74876  (10080805)
       488370.59   3617950.48        0.58355  (10101723)               488420.59
3617950.48        0.51015  (10101723)
       488470.59   3617950.48        0.46559  (10022022)               488520.59
3617950.48        0.44165  (10022022)
       488570.59   3617950.48        0.41351  (10022022)               488620.59
3617950.48        0.37841  (10101723)
       487840.14   3615798.03        0.21243  (10120606)               487890.14
3615798.03        0.19338  (10120606)
       487940.14   3615798.03        0.19705  (10012722)               487990.14
3615798.03        0.20879  (10012722)
       488240.14   3615798.03        0.23223  (10012722)               488290.14
3615798.03        0.22654  (10012722)
       488340.14   3615798.03        0.20951  (10012722)               488390.14
3615798.03        0.19747  (10092522)
       488440.14   3615798.03        0.19368  (10092522)               488490.14
3615798.03        0.18234  (10092522)
       488540.14   3615798.03        0.18331  (10121005)               488590.14
3615798.03        0.19300  (10121005)
       487940.14   3615848.03        0.20785  (10012722)               487990.14
3615848.03        0.21874  (10012722)
       488040.14   3615848.03        0.22914  (10012722)               488190.14
3615848.03        0.24078  (10012722)
       488240.14   3615848.03        0.23761  (10012722)               488290.14
3615848.03        0.22366  (10012722)
       488340.14   3615848.03        0.20311  (10092522)               488390.14
3615848.03        0.20067  (10092522)
       488440.14   3615848.03        0.19183  (10092522)               488490.14
3615848.03        0.18827  (10092702)
       488540.14   3615848.03        0.19636  (10121005)               488590.14
3615848.03        0.20459  (10121005)
       487740.14   3615898.03        0.23780  (10120606)               487990.14
3615898.03        0.22969  (10012722)
       488040.14   3615898.03        0.23898  (10012722)               488090.14
3615898.03        0.24840  (10012722)
       488140.14   3615898.03        0.25104  (10012722)               488190.14
3615898.03        0.24710  (10012722)
       488240.14   3615898.03        0.23624  (10012722)               488290.14
3615898.03        0.21780  (10012722)
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       488340.14   3615898.03        0.20759  (10092522)                488390.14
 3615898.03        0.20077  (10092522)
       488440.14   3615898.03        0.19334  (10092702)                488490.14
 3615898.03        0.19973  (10121005)
       488540.14   3615898.03        0.20892  (10121005)                488590.14
 3615898.03        0.21450  (10121005)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 159
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  HAUL     ***
                                 INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       487690.14   3615948.03        0.25187  (10120606)                487740.14
 3615948.03        0.22644  (10120606)
       487790.14   3615948.03        0.20882  (10111518)                488090.14
 3615948.03        0.25794  (10012722)
       488140.14   3615948.03        0.25723  (10012722)                488190.14
 3615948.03        0.24884  (10012722)
       488240.14   3615948.03        0.23631  (10012722)                488290.14
 3615948.03        0.21603  (10092522)
       488340.14   3615948.03        0.21012  (10092522)                488390.14
 3615948.03        0.19827  (10092702)
       488440.14   3615948.03        0.20494  (10051222)                488490.14
 3615948.03        0.22041  (10051222)
       488540.14   3615948.03        0.23126  (10051222)                488590.14
 3615948.03        0.23731  (10051222)
       487690.14   3615998.03        0.23812  (10120606)                487740.14
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3615998.03        0.21665  (10111518)
       487790.14   3615998.03        0.21284  (10111518)                488840.14
3615998.03        0.22632  (10012722)
       487890.14   3615998.03        0.23436  (10012722)                488090.14
3615998.03        0.26635  (10012722)
       488140.14   3615998.03        0.26135  (10012722)                488190.14
3615998.03        0.25406  (10012722)
       488240.14   3615998.03        0.23281  (10012722)                488290.14
3615998.03        0.22086  (10092522)
       488340.14   3615998.03        0.21563  (10051222)                488390.14
3615998.03        0.23344  (10051222)
       488440.14   3615998.03        0.24597  (10051222)                488490.14
3615998.03        0.25293  (10051222)
       488540.14   3615998.03        0.25451  (10051222)                488590.14
3615998.03        0.25135  (10051222)
       487540.14   3616048.03        0.33463  (10121005)                487790.14
3616048.03        0.22455  (10012722)
       487840.14   3616048.03        0.24860  (10051223)                487890.14
3616048.03        0.27096  (10051223)
       487940.14   3616048.03        0.27735  (10051223)                488090.14
3616048.03        0.27339  (10012722)
       488140.14   3616048.03        0.26732  (10012722)                488190.14
3616048.03        0.25061  (10012722)
       488240.14   3616048.03        0.23117  (10092522)                488290.14
3616048.03        0.24752  (10051222)
       488340.14   3616048.03        0.26242  (10051222)                488390.14
3616048.03        0.27052  (10051222)
       488440.14   3616048.03        0.27230  (10051222)                488490.14
3616048.03        0.26847  (10051222)
       488540.14   3616048.03        0.26015  (10051222)                488590.14
3616048.03        0.24867  (10051222)
       487540.14   3616098.03        0.30621  (10120606)                487590.14
3616098.03        0.26982  (10120606)
       487640.14   3616098.03        0.25593  (10111518)                487890.14
3616098.03        0.29563  (10051223)
       487940.14   3616098.03        0.28029  (10051223)                487990.14
3616098.03        0.28407  (10012722)
       488040.14   3616098.03        0.28052  (10012722)                488090.14
3616098.03        0.28119  (10012722)
       488140.14   3616098.03        0.26813  (10012722)                488190.14
3616098.03        0.26297  (10051222)
       488240.14   3616098.03        0.28019  (10051222)                488290.14
3616098.03        0.29011  (10051222)
       488340.14   3616098.03        0.29253  (10051222)                488390.14
3616098.03        0.28796  (10051222)
       488440.14   3616098.03        0.27804  (10051222)                488490.14
3616098.03        0.26437  (10051222)
       488540.14   3616098.03        0.24857  (10051222)                488590.14
3616098.03        0.23223  (10051222)
       487540.14   3616148.03        0.28515  (10120606)                487590.14
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HAUL ***
INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
488540.14	3616148.03	0.22585	(10051222)	488590.14	3616148.03	0.20988	(10051222)
487590.14	3616198.03	0.27900	(10111518)	487640.14	3616198.03	0.31552	(10051223)
487690.14	3616198.03	0.34447	(10051223)	487740.14	3616198.03	0.34754	(10051223)

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       487990.14   3616198.03        0.30278  (10012722)               488040.14
3616198.03        0.32517  (10051222)
       488090.14   3616198.03        0.33912  (10051222)               488140.14
3616198.03        0.34194  (10051222)
       488190.14   3616198.03        0.33518  (10051222)               488240.14
3616198.03        0.32124  (10051222)
       488290.14   3616198.03        0.30222  (10051222)               488340.14
3616198.03        0.28020  (10051222)
       488390.14   3616198.03        0.25885  (10121005)               488440.14
3616198.03        0.25207  (10121005)
       488490.14   3616198.03        0.23514  (10121005)               488540.14
3616198.03        0.23111  (10120220)
       488590.14   3616198.03        0.24352  (10120220)               487690.14
3616248.03        0.37104  (10051223)
       487740.14   3616248.03        0.33997  (10051223)               487790.14
3616248.03        0.29418  (10051223)
       487840.14   3616248.03        0.29360  (10012722)               487940.14
3616248.03        0.35193  (10051222)
       487990.14   3616248.03        0.36910  (10051222)               488040.14
3616248.03        0.37341  (10051222)
       488090.14   3616248.03        0.36600  (10051222)               488140.14
3616248.03        0.34874  (10051222)
       488190.14   3616248.03        0.32514  (10051222)               488240.14
3616248.03        0.29863  (10051222)
       488290.14   3616248.03        0.27173  (10051222)               488340.14
3616248.03        0.26814  (10121005)
       488390.14   3616248.03        0.26209  (10121005)               488440.14
3616248.03        0.26045  (10120220)
       488490.14   3616248.03        0.27199  (10120220)               488540.14
3616248.03        0.27909  (10120220)
       488590.14   3616248.03        0.28199  (10120220)               487690.14
3616298.03        0.34583  (10051223)
       487740.14   3616298.03        0.29596  (10051222)               487790.14
3616298.03        0.34517  (10051222)
       487840.14   3616298.03        0.38236  (10051222)               487890.14
3616298.03        0.40369  (10051222)
       487940.14   3616298.03        0.40999  (10051222)               487990.14
3616298.03        0.40111  (10051222)
       488040.14   3616298.03        0.38098  (10051222)               488090.14
3616298.03        0.35302  (10051222)
       488140.14   3616298.03        0.32064  (10051222)               488190.14
3616298.03        0.28779  (10051222)
       488240.14   3616298.03        0.27581  (10121005)               488290.14
3616298.03        0.28008  (10121005)
       488340.14   3616298.03        0.29451  (10120220)               488390.14
3616298.03        0.30406  (10120220)
       488440.14   3616298.03        0.30848  (10120220)               488490.14
3616298.03        0.30811  (10120220)
       488540.14   3616298.03        0.30360  (10120220)               488590.14
3616298.03        0.29590  (10120220)
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       487690.14   3616348.03        0.37105  (10051222)               487740.14
 3616348.03        0.41708  (10051222)
       487790.14   3616348.03        0.44477  (10051222)               487840.14
 3616348.03        0.45272  (10051222)
       487890.14   3616348.03        0.44269  (10051222)               487940.14
 3616348.03        0.41843  (10051222)
       487990.14   3616348.03        0.38463  (10051222)               488040.14
 3616348.03        0.34604  (10051222)
       488090.14   3616348.03        0.30693  (10051222)               488140.14
 3616348.03        0.29787  (10120220)
       488190.14   3616348.03        0.31816  (10120220)               488240.14
 3616348.03        0.33216  (10120220)
       488290.14   3616348.03        0.33971  (10120220)               488340.14
 3616348.03        0.34040  (10120220)
       488390.14   3616348.03        0.33555  (10120220)               488440.14
 3616348.03        0.32630  (10120220)
       488490.14   3616348.03        0.31393  (10120220)               488540.14
 3616348.03        0.29975  (10120220)
       488590.14   3616348.03        0.28495  (10120220)               487640.14
 3616398.03        0.45755  (10051222)
       487690.14   3616398.03        0.49310  (10051222)               487740.14
 3616398.03        0.50419  (10051222)
       487790.14   3616398.03        0.49252  (10051222)               487840.14
 3616398.03        0.46301  (10051222)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 161
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  HAUL     ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)        CONC     (YYMMDDHH)
 - - -
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 3616498.03        0.41830  (10120220)
       488140.14   3616498.03        0.38616  (10120220)                488190.14
 3616498.03        0.35524  (10120220)
       488240.14   3616498.03        0.32379  (10120220)                488290.14
 3616498.03        0.29664  (10120220)
       488340.14   3616498.03        0.27492  (10120220)                488390.14
 3616498.03        0.25821  (10120220)
       488440.14   3616498.03        0.24679  (10120220)                488490.14
 3616498.03        0.24000  (10120220)
       488540.14   3616498.03        0.23689  (10120220)                488590.14
 3616498.03        0.23617  (10120220)
       484613.02   3614429.89        0.13315  (10111408)                484663.02
 3614429.89        0.13622  (10111408)
       484713.02   3614429.89        0.13666  (10111408)                484763.02
 3614429.89        0.13487  (10111408)
       484813.02   3614429.89        0.13096  (10111408)                484863.02
 3614429.89        0.12520  (10111408)
       484913.02   3614429.89        0.11662  (10032907)                484963.02
 3614429.89        0.13196  (10032907)
       484563.02   3614479.89        0.12530  (10111408)                484613.02
 3614479.89        0.13163  (10111408)
       484663.02   3614479.89        0.13591  (10111408)                484713.02
 3614479.89        0.13806  (10111408)
       484763.02   3614479.89        0.13790  (10111408)                484813.02
 3614479.89        0.13544  (10111408)
       484863.02   3614479.89        0.13084  (10111408)                484913.02
 3614479.89        0.12268  (10111408)
       484963.02   3614479.89        0.12348  (10032907)                484513.02
 3614529.89        0.11223  (10111408)
       484563.02   3614529.89        0.12095  (10111408)                484613.02
 3614529.89        0.12842  (10111408)
       484663.02   3614529.89        0.13430  (10111408)                484713.02
 3614529.89        0.13819  (10111408)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 162
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  HAUL     ***
                                 INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
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, HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484763.02	3614529.89	0.13980	(10111408)	484813.02	3614529.89	0.13900	(10111408)
484863.02	3614529.89	0.13582	(10111408)	484913.02	3614529.89	0.12842	(10111408)
484963.02	3614529.89	0.12101	(10111408)	484463.02	3614579.89	0.10010	(10102808)
484513.02	3614579.89	0.10599	(10111408)	484563.02	3614579.89	0.11537	(10111408)
484613.02	3614579.89	0.12399	(10111408)	484663.02	3614579.89	0.13136	(10111408)
484713.02	3614579.89	0.13697	(10111408)	484763.02	3614579.89	0.14042	(10111408)
484813.02	3614579.89	0.14143	(10111408)	484863.02	3614579.89	0.13993	(10111408)
484913.02	3614579.89	0.13421	(10111408)	484963.02	3614579.89	0.12712	(10111408)
484413.02	3614629.89	0.11081	(10102808)	484463.02	3614629.89	0.10648	(10102808)
484513.02	3614629.89	0.10097	(10102808)	484563.02	3614629.89	0.10893	(10111408)
484613.02	3614629.89	0.11846	(10111408)	484663.02	3614629.89	0.12711	(10111408)
484713.02	3614629.89	0.13433	(10111408)	484763.02	3614629.89	0.13962	(10111408)
484813.02	3614629.89	0.14257	(10111408)	484863.02	3614629.89	0.14293	(10111408)
484913.02	3614629.89	0.14009	(10111408)	484963.02	3614629.89	0.13294	(10111408)
484413.02	3614679.89	0.11553	(10102808)	484463.02	3614679.89	0.11211	(10102808)
484513.02	3614679.89	0.10742	(10102808)	484563.02	3614679.89	0.10183	(10111408)
484613.02	3614679.89	0.11199	(10111408)	484663.02	3614679.89	0.12167	(10111408)
484713.02	3614679.89	0.13031	(10111408)	484763.02	3614679.89	0.13734	(10111408)
484813.02	3614679.89	0.14225	(10111408)	484863.02	3614679.89	0.14463	(10111408)

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       484913.02   3614679.89        0.14428  (10111408)               484963.02
 3614679.89        0.13922  (10111408)
       484363.02   3614729.89        0.11976  (10102808)               484413.02
 3614729.89        0.11908  (10102808)
       484463.02   3614729.89        0.11689  (10102808)               484513.02
 3614729.89        0.11326  (10102808)
       484563.02   3614729.89        0.10836  (10102808)               484613.02
 3614729.89        0.10476  (10111408)
       484663.02   3614729.89        0.11517  (10111408)               484713.02
 3614729.89        0.12498  (10111408)
       484763.02   3614729.89        0.13359  (10111408)               484813.02
 3614729.89        0.14038  (10111408)
       484863.02   3614729.89        0.14483  (10111408)               484913.02
 3614729.89        0.14658  (10111408)
       484963.02   3614729.89        0.14325  (10111408)               484313.02
 3614779.89        0.11813  (10102808)
       484363.02   3614779.89        0.12046  (10102808)               484413.02
 3614779.89        0.12129  (10102808)
       484463.02   3614779.89        0.12056  (10102808)               484513.02
 3614779.89        0.11825  (10102808)
       484563.02   3614779.89        0.11444  (10102808)               484613.02
 3614779.89        0.10931  (10102808)
       484663.02   3614779.89        0.10784  (10111408)               484713.02
 3614779.89        0.11850  (10111408)
       484763.02   3614779.89        0.12841  (10111408)               484813.02
 3614779.89        0.13693  (10111408)
       484863.02   3614779.89        0.14342  (10111408)               484913.02
 3614779.89        0.14736  (10111408)
       484963.02   3614779.89        0.14605  (10111408)               484263.02
 3614829.89        0.11083  (10102808)
       484313.02   3614829.89        0.11582  (10102808)               484363.02
 3614829.89        0.11962  (10102808)
       484413.02   3614829.89        0.12203  (10102808)               484463.02
 3614829.89        0.12288  (10102808)
       484513.02   3614829.89        0.12208  (10102808)               484563.02
 3614829.89        0.11964  (10102808)
       484613.02   3614829.89        0.11564  (10102808)               484663.02
 3614829.89        0.11027  (10102808)
       484713.02   3614829.89        0.11106  (10111408)               484763.02
 3614829.89        0.12196  (10111408)
       484813.02   3614829.89        0.13194  (10111408)               484863.02
 3614829.89        0.14033  (10111408)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 163
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HAUL ***

INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484913.02	3614829.89	0.14646	(10111408)	484963.02	3614829.89	0.14592	(10111408)
484213.02	3614879.89	0.09924	(10102808)	484263.02	3614879.89	0.10596	(10102808)
484313.02	3614879.89	0.11205	(10102808)	484363.02	3614879.89	0.11721	(10102808)
484413.02	3614879.89	0.12116	(10102808)	484463.02	3614879.89	0.12366	(10102808)
484513.02	3614879.89	0.12452	(10102808)	484563.02	3614879.89	0.12366	(10102808)
484613.02	3614879.89	0.12106	(10102808)	484663.02	3614879.89	0.11685	(10102808)
484713.02	3614879.89	0.11123	(10102808)	484763.02	3614879.89	0.11444	(10111408)
484813.02	3614879.89	0.12556	(10111408)	484863.02	3614879.89	0.13558	(10111408)
484913.02	3614879.89	0.14378	(10111408)	484963.02	3614879.89	0.14707	(10111408)
484163.02	3614929.89	0.09019	(10020808)	484213.02	3614929.89	0.09264	(10102808)
484263.02	3614929.89	0.09996	(10102808)	484313.02	3614929.89	0.10694	(10102808)
484363.02	3614929.89	0.11327	(10102808)	484413.02	3614929.89	0.11864	(10102808)
484463.02	3614929.89	0.12275	(10102808)	484513.02	3614929.89	0.12534	(10102808)
484563.02	3614929.89	0.12622	(10102808)	484613.02	3614929.89	0.12528	(10102808)
484663.02	3614929.89	0.12253	(10102808)	484713.02			

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3614929.89        0.11809  (10102808)
       484763.02   3614929.89        0.11219  (10102808)                484813.02
3614929.89        0.11797  (10111408)
       484863.02   3614929.89        0.12930  (10111408)                484913.02
3614929.89        0.13933  (10111408)
       484963.02   3614929.89        0.14707  (10111408)                485013.02
3614929.89        0.14853  (10111408)
       484113.02   3614979.89        0.08854  (10020808)                484163.02
3614979.89        0.09121  (10020808)
       484213.02   3614979.89        0.09159  (10020808)                484263.02
3614979.89        0.09311  (10102808)
       484313.02   3614979.89        0.10069  (10102808)                484363.02
3614979.89        0.10794  (10102808)
       484413.02   3614979.89        0.11453  (10102808)                484463.02
3614979.89        0.12012  (10102808)
       484513.02   3614979.89        0.12440  (10102808)                484563.02
3614979.89        0.12709  (10102808)
       484613.02   3614979.89        0.12797  (10102808)                484663.02
3614979.89        0.12695  (10102808)
       484713.02   3614979.89        0.12403  (10102808)                484763.02
3614979.89        0.11935  (10102808)
       484813.02   3614979.89        0.11315  (10102808)                484863.02
3614979.89        0.12168  (10111408)
       484913.02   3614979.89        0.13319  (10111408)                484963.02
3614979.89        0.14298  (10111408)
       485013.02   3614979.89        0.14699  (10111408)                484113.02
3615029.89        0.08373  (10020808)
       484163.02   3615029.89        0.08890  (10020808)                484213.02
3615029.89        0.09210  (10020808)
       484263.02   3615029.89        0.09293  (10020808)                484313.02
3615029.89        0.09357  (10102808)
       484363.02   3615029.89        0.10143  (10102808)                484413.02
3615029.89        0.10896  (10102808)
       484463.02   3615029.89        0.11582  (10102808)                484513.02
3615029.89        0.12165  (10102808)
       484563.02   3615029.89        0.12611  (10102808)                484613.02
3615029.89        0.12890  (10102808)
       484663.02   3615029.89        0.12979  (10102808)                484713.02
3615029.89        0.12868  (10102808)
       484763.02   3615029.89        0.12557  (10102808)                484813.02
3615029.89        0.12062  (10102808)
       484863.02   3615029.89        0.11411  (10102808)                484913.02
3615029.89        0.12557  (10111408)
       484963.02   3615029.89        0.13723  (10111408)                485013.02
3615029.89        0.14643  (10111408)
       485063.02   3615029.89        0.15048  (10111408)                484113.02
3615079.89        0.07628  (10020808)
       484163.02   3615079.89        0.08342  (10020808)                484213.02
3615079.89        0.08916  (10020808)
       484263.02   3615079.89        0.09292  (10020808)                484313.02
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HAUL ***
INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 ,
HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 ,
HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 ,
HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484363.02	3615079.89	0.09402	(10102808)	484413.02	3615079.89	0.10216	(10102808)
484463.02	3615079.89	0.10999	(10102808)	484513.02	3615079.89	0.11714	(10102808)
484563.02	3615079.89	0.12323	(10102808)	484613.02	3615079.89	0.12789	(10102808)
484663.02	3615079.89	0.13078	(10102808)	484713.02	3615079.89	0.13168	(10102808)
484763.02	3615079.89	0.13047	(10102808)	484813.02	3615079.89	0.12716	(10102808)
484863.02	3615079.89	0.12192	(10102808)	484913.02	3615079.89	0.11675	(10111408)
484963.02	3615079.89	0.12964	(10111408)	485013.02	3615079.89	0.14142	(10111408)
485063.02	3615079.89	0.15046	(10111408)	485113.02	3615079.89	0.15363	(10111408)
484113.02	3615129.89	0.07278	(10102801)	484163.02	3615129.89	0.07534	(10020808)
484213.02	3615129.89	0.08298	(10020808)	484263.02	3615129.89	0.08930	(10020808)

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       484313.02   3615129.89        0.09366  (10020808)               484363.02
3615129.89        0.09555  (10020808)
       484413.02   3615129.89        0.09468  (10020808)               484463.02
3615129.89        0.10290  (10102808)
       484513.02   3615129.89        0.11105  (10102808)               484563.02
3615129.89        0.11851  (10102808)
       484613.02   3615129.89        0.12487  (10102808)               484663.02
3615129.89        0.12973  (10102808)
       484713.02   3615129.89        0.13274  (10102808)               484763.02
3615129.89        0.13365  (10102808)
       484813.02   3615129.89        0.13232  (10102808)               484863.02
3615129.89        0.12878  (10102808)
       484913.02   3615129.89        0.12323  (10102808)               484963.02
3615129.89        0.12069  (10111408)
       485013.02   3615129.89        0.13391  (10111408)               485063.02
3615129.89        0.14576  (10111408)
       485113.02   3615129.89        0.15458  (10111408)               485163.02
3615129.89        0.15707  (10111408)
       484113.02   3615179.89        0.07317  (10102801)               484163.02
3615179.89        0.07489  (10102801)
       484213.02   3615179.89        0.07600  (10102801)               484263.02
3615179.89        0.08240  (10020808)
       484313.02   3615179.89        0.08932  (10020808)               484363.02
3615179.89        0.09432  (10020808)
       484413.02   3615179.89        0.09680  (10020808)               484463.02
3615179.89        0.09641  (10020808)
       484513.02   3615179.89        0.10364  (10102808)               484563.02
3615179.89        0.11212  (10102808)
       484613.02   3615179.89        0.11991  (10102808)               484663.02
3615179.89        0.12656  (10102808)
       484713.02   3615179.89        0.13164  (10102808)               484763.02
3615179.89        0.13478  (10102808)
       484813.02   3615179.89        0.13569  (10102808)               484863.02
3615179.89        0.13423  (10102808)
       484913.02   3615179.89        0.13045  (10102808)               484963.02
3615179.89        0.12456  (10102808)
       485013.02   3615179.89        0.12485  (10111408)               485063.02
3615179.89        0.13837  (10111408)
       485113.02   3615179.89        0.15024  (10111408)               485163.02
3615179.89        0.15856  (10111408)
       485213.02   3615179.89        0.16202  (10111408)               484113.02
3615229.89        0.07242  (10102801)
       484163.02   3615229.89        0.07500  (10102801)               484213.02
3615229.89        0.07704  (10102801)
       484263.02   3615229.89        0.07843  (10102801)               484313.02
3615229.89        0.08167  (10020808)
       484363.02   3615229.89        0.08925  (10020808)               484413.02
3615229.89        0.09481  (10020808)
       484463.02   3615229.89        0.09788  (10020808)               484513.02
3615229.89        0.09804  (10020808)
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3615279.89        0.11354  (10102808)
       484713.02   3615279.89        0.12184  (10102808)                484763.02
3615279.89        0.12953  (10102808)
       484813.02   3615279.89        0.13572  (10102808)                484863.02
3615279.89        0.13912  (10102808)
       484913.02   3615279.89        0.14002  (10102808)                484963.02
3615279.89        0.13828  (10102808)
       485013.02   3615279.89        0.13393  (10102808)                485063.02
3615279.89        0.12727  (10102808)
       485113.02   3615279.89        0.13387  (10111408)                485163.02
3615279.89        0.14791  (10111408)
       485213.02   3615279.89        0.15959  (10111408)                485263.02
3615279.89        0.16758  (10111408)
       485313.02   3615279.89        0.16855  (10111408)                484113.02
3615329.89        0.08436  (10122309)
       484163.02   3615329.89        0.07742  (10102721)                484213.02
3615329.89        0.07768  (10102721)
       484663.02   3615329.89        0.10457  (10102808)                484713.02
3615329.89        0.11459  (10102808)
       484763.02   3615329.89        0.12337  (10102808)                484813.02
3615329.89        0.13204  (10102808)
       484863.02   3615329.89        0.13789  (10102808)                484913.02
3615329.89        0.14144  (10102808)
       484963.02   3615329.89        0.14234  (10102808)                485013.02
3615329.89        0.14042  (10102808)
       485063.02   3615329.89        0.13575  (10102808)                485113.02
3615329.89        0.12864  (10102808)
       485163.02   3615329.89        0.13877  (10111408)                485213.02
3615329.89        0.15300  (10111408)
       485263.02   3615329.89        0.16444  (10111408)                485313.02
3615329.89        0.17175  (10111408)
       485363.02   3615329.89        0.17289  (10111408)                484113.02
3615379.89        0.09722  (10122309)
       484163.02   3615379.89        0.08980  (10122309)                484713.02
3615379.89        0.10532  (10102808)
       484763.02   3615379.89        0.11577  (10102808)                484813.02
3615379.89        0.12507  (10102808)
       484863.02   3615379.89        0.13397  (10102808)                484913.02
3615379.89        0.14015  (10102808)
       484963.02   3615379.89        0.14386  (10102808)                485013.02
3615379.89        0.14475  (10102808)
       485063.02   3615379.89        0.14264  (10102808)                485113.02
3615379.89        0.13761  (10102808)
       485163.02   3615379.89        0.13002  (10102808)                485213.02
3615379.89        0.14394  (10111408)
       485263.02   3615379.89        0.15830  (10111408)                485313.02
3615379.89        0.16938  (10111408)
       485363.02   3615379.89        0.17578  (10111408)                485413.02
3615379.89        0.17638  (10111408)
       484763.02   3615429.89        0.10605  (10102808)                484813.02
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 3615429.89        0.11701  (10102808)
       484863.02   3615429.89        0.12675  (10102808)                484913.02
 3615429.89        0.13606  (10102808)
       484963.02   3615429.89        0.14253  (10102808)                485013.02
 3615429.89        0.14641  (10102808)
       485063.02   3615429.89        0.14728  (10102808)                485113.02
 3615429.89        0.14495  (10102808)
       485163.02   3615429.89        0.13953  (10102808)                485213.02
 3615429.89        0.13281  (10111408)
       485263.02   3615429.89        0.14939  (10111408)                485313.02
 3615429.89        0.16380  (10111408)
       485363.02   3615429.89        0.17438  (10111408)                485413.02
 3615429.89        0.17968  (10111408)
       485463.02   3615429.89        0.17857  (10111408)                485513.02
 3615429.89        0.16866  (10111408)
       484813.02   3615479.89        0.10673  (10102808)                484863.02
 3615479.89        0.11777  (10102808)
       484913.02   3615479.89        0.12903  (10102808)                484963.02
 3615479.89        0.13819  (10102808)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 166
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  HAUL     ***
                                 INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - -
       485013.02   3615479.89        0.14501  (10102808)                485063.02
 3615479.89        0.14908  (10102808)
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       485113.02   3615479.89        0.14993  (10102808)              485163.02
3615479.89        0.14736  (10102808)
       485213.02   3615479.89        0.14149  (10102808)              485263.02
3615479.89        0.13812  (10111408)
       485313.02   3615479.89        0.15514  (10111408)              485363.02
3615479.89        0.16950  (10111408)
       485413.02   3615479.89        0.17940  (10111408)              485463.02
3615479.89        0.18339  (10111408)
       485513.02   3615479.89        0.17718  (10111408)              485563.02
3615479.89        0.16771  (10111408)
       484863.02   3615529.89        0.10778  (10020808)              484913.02
3615529.89        0.11892  (10102808)
       484963.02   3615529.89        0.13090  (10102808)              485013.02
3615529.89        0.14042  (10102808)
       485063.02   3615529.89        0.14762  (10102808)              485113.02
3615529.89        0.15189  (10102808)
       485163.02   3615529.89        0.15272  (10102808)              485213.02
3615529.89        0.14987  (10102808)
       485263.02   3615529.89        0.14352  (10102808)              485313.02
3615529.89        0.14378  (10111408)
       485363.02   3615529.89        0.16120  (10111408)              485413.02
3615529.89        0.17539  (10111408)
       485463.02   3615529.89        0.18441  (10111408)              485513.02
3615529.89        0.18290  (10111408)
       484913.02   3615579.89        0.11059  (10111005)              484963.02
3615579.89        0.12015  (10102808)
       485013.02   3615579.89        0.13200  (10102808)              485063.02
3615579.89        0.14176  (10102808)
       485113.02   3615579.89        0.15037  (10102808)              485163.02
3615579.89        0.15486  (10102808)
       485213.02   3615579.89        0.15565  (10102808)              485263.02
3615579.89        0.15250  (10102808)
       485313.02   3615579.89        0.14559  (10102808)              485363.02
3615579.89        0.14981  (10111408)
       485413.02   3615579.89        0.16758  (10111408)              485463.02
3615579.89        0.18144  (10111408)
       484963.02   3615629.89        0.11480  (10111005)              485013.02
3615629.89        0.12139  (10102808)
       485063.02   3615629.89        0.13363  (10102808)              485113.02
3615629.89        0.14390  (10102808)
       485163.02   3615629.89        0.15245  (10102808)              485213.02
3615629.89        0.15799  (10102808)
       485263.02   3615629.89        0.15873  (10102808)              485313.02
3615629.89        0.15524  (10102808)
       485363.02   3615629.89        0.14772  (10102808)              485413.02
3615629.89        0.15619  (10111408)
       485013.02   3615679.89        0.11924  (10111005)              485063.02
3615679.89        0.12391  (10111005)
       485113.02   3615679.89        0.13554  (10102808)              485163.02
3615679.89        0.14644  (10102808)
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       485213.02   3615679.89        0.15545  (10102808)               485263.02
 3615679.89        0.16130  (10102808)
       485313.02   3615679.89        0.16199  (10102808)               485363.02
 3615679.89        0.15721  (10102808)
       485413.02   3615679.89        0.15100  (10013022)               485063.02
 3615729.89        0.12398  (10111005)
       485113.02   3615729.89        0.12920  (10111005)               485163.02
 3615729.89        0.13732  (10102808)
       485213.02   3615729.89        0.14910  (10102808)               485263.02
 3615729.89        0.15834  (10102808)
       485313.02   3615729.89        0.16352  (10102808)               485363.02
 3615729.89        0.16187  (10102808)
       485113.02   3615779.89        0.12894  (10111005)               485163.02
 3615779.89        0.13500  (10111005)
       485213.02   3615779.89        0.13888  (10102808)               485263.02
 3615779.89        0.15113  (10102808)
       485313.02   3615779.89        0.15935  (10102808)               485163.02
 3615829.89        0.13422  (10111005)
       485213.02   3615829.89        0.14111  (10111005)               485263.02
 3615829.89        0.14522  (10111005)
       485213.02   3615879.89        0.14039  (10111518)               485552.29
 3616096.26        0.19773  (10111005)
       486018.22   3615677.92        0.31380  (10012402)               486003.19
 3616494.55        0.39834  (10111005)
       486759.70   3615938.44        0.29082  (10051304)               486118.42
 3616108.78        0.38998  (10012402)
       486519.22   3615657.88        0.26555  (10021605)               487082.35
 3618053.22        0.38981  (10093002)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 167
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  HAUL     ***
                                 INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                           *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
487132.24	3618053.22	0.37584	(10041720)	487182.13	3618053.22	0.41085	(10100103)
487232.02	3618053.22	0.37045	(10100103)	487281.91	3618053.22	0.38871	(10041721)
486424.80	3617998.65	0.97990	(10121022)	486474.69	3617998.65	1.05949	(10121022)
486524.58	3617998.65	1.00827	(10111620)	486574.47	3617998.65	1.06461	(10120320)
486624.36	3617998.65	1.02231	(10092904)	486674.25	3617998.65	1.08473	(10121401)
486724.14	3617998.65	1.15303	(10121401)	486774.03	3617998.65	1.28814	(10121401)
486823.92	3617998.65	2.40960	(10120606)	486873.81	3617998.65	1.75246	(10101906)
486923.70	3617998.65	1.21213	(10101906)	486973.59	3617998.65	0.81865	(10101906)
487023.48	3617998.65	0.58414	(10093002)	487082.35	3618103.22	0.32711	(10092724)
487132.24	3618103.22	0.31496	(10121517)	487182.13	3618103.22	0.32604	(10041720)
486374.91	3618048.65	0.83954	(10021621)	486424.80	3618048.65	1.02662	(10121022)
486474.69	3618048.65	1.08567	(10121022)	486524.58	3618048.65	1.07853	(10111620)
486574.47	3618048.65	1.14719	(10120320)	486624.36	3618048.65	1.15684	(10092904)
486674.25	3618048.65	1.29108	(10121401)	486724.14	3618048.65	1.46543	(10121401)
486774.03	3618048.65	2.43135	(10120606)	486823.92	3618048.65	1.79175	(10101906)
486873.81	3618048.65	1.17939	(10101906)	486923.70	3618048.65	0.72444	(10092924)
486973.59	3618048.65	0.55464	(10093002)	487023.48	3618048.65	0.54089	(10093002)
487082.35	3618153.22	0.30232	(10101420)	487132.24	3618153.22	0.27718	(10121517)
486325.02	3618098.65	0.93856	(10021621)	486374.91	3618098.65	0.88566	(10121022)
486424.80	3618098.65	1.08045	(10121022)	486474.69	3618098.65	1.13466	(10121022)
486524.58	3618098.65	1.16207	(10111620)	486574.47	3618098.65	1.25115	(10120320)
486624.36	3618098.65	1.32243	(10092904)	486674.25			

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 3618098.65         1.62731  (10121401)
       486724.14   3618098.65         2.32983  (10051223)                486774.03
 3618098.65         1.72080  (10101906)
       486823.92   3618098.65         1.01367  (10101906)                486873.81
 3618098.65         0.72002  (10092924)
       486923.70   3618098.65         0.64070  (10111520)                486973.59
 3618098.65         0.54435  (10093002)
       487023.48   3618098.65         0.45822  (10093002)                487082.35
 3618203.22         0.31689  (10102817)
       486275.13   3618148.65         0.96945  (10021621)                486325.02
 3618148.65         0.93347  (10021621)
       486374.91   3618148.65         0.96269  (10121022)                486424.80
 3618148.65         1.15438  (10121022)
       486474.69   3618148.65         1.20244  (10121022)                486524.58
 3618148.65         1.27555  (10111620)
       486574.47   3618148.65         1.44228  (10120320)                486624.36
 3618148.65         1.76130  (10092904)
       486674.25   3618148.65         2.03947  (10121401)                486724.14
 3618148.65         1.48550  (10121401)
       486774.03   3618148.65         1.04390  (10121401)                486823.92
 3618148.65         0.75100  (10011620)
       486873.81   3618148.65         0.68621  (10102521)                486923.70
 3618148.65         0.60644  (10111520)
       486973.59   3618148.65         0.52545  (10111520)                487023.48
 3618148.65         0.45643  (10102817)
       486225.24   3618198.65         0.90328  (10021621)                486275.13
 3618198.65         0.97766  (10021621)
       486325.02   3618198.65         0.94772  (10021621)                486374.91
 3618198.65         1.06184  (10121022)
       486424.80   3618198.65         1.22512  (10121022)                486474.69
 3618198.65         1.29736  (10121022)
       486524.58   3618198.65         1.48169  (10111620)                486574.47
 3618198.65         1.95766  (10120320)
       486624.36   3618198.65         1.82626  (10092904)                486674.25
 3618198.65         1.35779  (10121401)
       486724.14   3618198.65         1.33407  (10102818)                486774.03
 3618198.65         0.98702  (10102818)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE 168
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  HAUL     ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
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 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        486823.92   3618198.65        0.77486  (10092521)               486873.81
 3618198.65        0.65948  (10102521)
        486923.70   3618198.65        0.55572  (10121318)               486973.59
 3618198.65        0.58707  (10111520)
        487023.48   3618198.65        0.45802  (10102817)               486175.35
 3618248.65        0.84221  (10092622)
        486225.24   3618248.65        0.94736  (10021621)               486275.13
 3618248.65        1.00639  (10021621)
        486325.02   3618248.65        0.98253  (10021621)               486374.91
 3618248.65        1.15261  (10121022)
        486424.80   3618248.65        1.32862  (10121022)               486474.69
 3618248.65        1.51441  (10121022)
        486524.58   3618248.65        2.16368  (10111620)               486574.47
 3618248.65        1.75137  (10120320)
        486624.36   3618248.65        1.31828  (10092904)               486674.25
 3618248.65        1.22965  (10102818)
        486724.14   3618248.65        1.16655  (10102818)               486774.03
 3618248.65        0.96582  (10102818)
        486823.92   3618248.65        0.74904  (10092521)               486873.81
 3618248.65        0.64715  (10102521)
        486923.70   3618248.65        0.56459  (10121318)               486973.59
 3618248.65        0.61422  (10111520)
        487023.48   3618248.65        0.47195  (10102817)               486125.46
 3618298.65        0.73468  (10092622)
        486175.35   3618298.65        0.83937  (10021621)               486225.24
 3618298.65        0.99006  (10021621)
        486275.13   3618298.65        1.04213  (10021621)               486325.02
 3618298.65        1.02768  (10021621)
        486374.91   3618298.65        1.28305  (10121022)               486424.80
 3618298.65        1.60516  (10121022)
        486474.69   3618298.65        2.13834  (10121005)               486524.58
 3618298.65        1.64385  (10111620)
        486574.47   3618298.65        1.34066  (10120320)               486624.36
 3618298.65        1.11344  (10092904)
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       486674.25   3618298.65        1.19047  (10102818)               486724.14
 3618298.65        1.10095  (10102818)
       486774.03   3618298.65        0.93773  (10102818)               486823.92
 3618298.65        0.75487  (10102818)
       486873.81   3618298.65        0.62114  (10011720)               486923.70
 3618298.65        0.56544  (10102521)
       486125.46   3618348.65        0.72374  (10092622)               486175.35
 3618348.65        0.87567  (10021621)
       486225.24   3618348.65        1.03922  (10021621)               486275.13
 3618348.65        1.08431  (10021621)
       486325.02   3618348.65        1.17112  (10121022)               486374.91
 3618348.65        1.61250  (10121022)
       486424.80   3618348.65        1.89966  (10051223)               486474.69
 3618348.65        1.52003  (10121022)
       486524.58   3618348.65        1.28918  (10111620)               486574.47
 3618348.65        1.13465  (10120320)
       486624.36   3618348.65        1.06716  (10092521)               486674.25
 3618348.65        1.09329  (10102818)
       486724.14   3618348.65        1.07159  (10102818)               486774.03
 3618348.65        0.92077  (10102818)
       486823.92   3618348.65        0.79768  (10102818)               486873.81
 3618348.65        0.59850  (10011720)
       486125.46   3618398.65        0.70359  (10092622)               486175.35
 3618398.65        0.87767  (10021621)
       486225.24   3618398.65        1.04623  (10021621)               486275.13
 3618398.65        1.17219  (10021621)
       486325.02   3618398.65        1.55529  (10121022)               486374.91
 3618398.65        2.07069  (10121022)
       486424.80   3618398.65        1.48325  (10121022)               486474.69
 3618398.65        1.19478  (10121022)
       486524.58   3618398.65        1.09651  (10111620)               486574.47
 3618398.65        0.99536  (10120320)
       486624.36   3618398.65        1.02213  (10092521)               486674.25
 3618398.65        1.10032  (10102818)
       486724.14   3618398.65        1.12046  (10102818)               486774.03
 3618398.65        0.90595  (10102818)
       486823.92   3618398.65        0.78390  (10102818)               486125.46
 3618448.65        0.63988  (10021621)
       486175.35   3618448.65        0.91310  (10021621)               486225.24
 3618448.65        1.09489  (10021621)
       486275.13   3618448.65        1.53392  (10021621)               486325.02
 3618448.65        1.71237  (10121022)
       486374.91   3618448.65        1.40345  (10121022)               486424.80
 3618448.65        1.22925  (10121022)
       486474.69   3618448.65        1.02691  (10121022)               486524.58
 3618448.65        0.96326  (10111620)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***       11:59:01
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HAUL ***
INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 ,
HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 ,
HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 ,
HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
486574.47	3618448.65	0.92210	(10092521)	486624.36	3618448.65	0.98502	(10092521)
486674.25	3618448.65	1.08405	(10102818)	486724.14	3618448.65	1.10663	(10102818)
486774.03	3618448.65	0.96498	(10102818)	486125.46	3618498.65	0.69353	(10021621)
486175.35	3618498.65	0.85777	(10021621)	486225.24	3618498.65	1.41895	(10120219)
486275.13	3618498.65	1.20006	(10021621)	486325.02	3618498.65	1.09150	(10121022)
486374.91	3618498.65	1.13788	(10121022)	486424.80	3618498.65	1.04703	(10121022)
486474.69	3618498.65	0.89165	(10111620)	486524.58	3618498.65	0.87522	(10111620)
486574.47	3618498.65	0.89366	(10092521)	486624.36	3618498.65	0.95341	(10092521)
486674.25	3618498.65	1.04000	(10102818)	486125.46	3618548.65	0.66885	(10021621)
486175.35	3618548.65	0.89003	(10120219)	486225.24	3618548.65	0.86924	(10021621)
486275.13	3618548.65	0.73156	(10021621)	486325.02	3618548.65	0.87146	(10021622)
486374.91	3618548.65	0.96877	(10021622)	486424.80	3618548.65	0.91215	(10121022)
486474.69	3618548.65	0.79594	(10111620)	486524.58			

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 3618548.65         0.83838  (10092521)
       486574.47   3618548.65         0.88950  (10092521)                486624.36
 3618548.65         0.92584  (10092521)
       485782.13   3617697.10         0.35630  (10111518)                486117.99
 3618113.14         0.55400  (10102819)
       487046.44   3616930.35         1.23805  (10051221)                487001.92
 3616865.64         2.28048  (10120220)
       487027.85   3616812.50         1.73406  (10120220)                487059.32
 3616825.09         1.94384  (10120220)
       487097.29   3616749.11         1.48352  (10051222)                487391.33
 3616829.05         0.74419  (10111518)
       487479.92   3616731.27         0.75156  (10120220)                487502.82
 3616688.63         0.82159  (10120220)
       487412.35   3616681.88         0.89260  (10120220)                487364.99
 3616592.30         0.83374  (10051222)
       487332.84   3616532.76         0.57424  (10051223)                487293.41
 3616472.19         0.58259  (10051223)
       487247.98   3616421.76         0.45404  (10120606)                487197.40
 3616436.07         0.54082  (10120606)
       487083.85   3616471.34         0.94806  (10121005)                487021.64
 3616518.54         1.14246  (10121005)
       486926.81   3616571.99         1.23110  (10121005)                486895.57
 3616630.03         1.59705  (10121005)
       486821.36   3616675.48         1.88476  (10092522)                486753.38
 3616756.79         2.90205  (10012722)
       486732.11   3616765.07         3.22775  (10012722)                486714.34
 3616771.99         3.22129  (10012722)
       486614.05   3616565.34         0.79717  (10021605)                486419.27
 3616678.32         1.46073  (10012402)
       486594.81   3616964.16        14.23424  (10092406)                486605.37
 3616981.34        26.27592  (10092522)
       486707.77   3616937.26         8.88375  (10051222)                486905.55
 3617015.39         1.52346  (10111518)
       487046.44   3616930.34         1.22594  (10051221)

 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 170
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  CONSTRUC ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
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 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
        487520.59   3616550.48      225.10184  (10120220)                487570.59
 3616550.48      213.05217  (10120220)
        487620.59   3616550.48      201.55952  (10120220)                487670.59
 3616550.48      193.35856  (10120220)
        487720.59   3616550.48      185.02838  (10120220)                487770.59
 3616550.48      174.60999  (10120220)
        487820.59   3616550.48      161.11023  (10120220)                487870.59
 3616550.48      145.03533  (10120220)
        487920.59   3616550.48      127.66750  (10120220)                487970.59
 3616550.48      110.31672  (10120220)
        488020.59   3616550.48       93.95644  (10120220)                488070.59
 3616550.48       81.26793  (10051221)
        488120.59   3616550.48       77.33484  (10051221)                488170.59
 3616550.48       72.43909  (10051221)
        488220.59   3616550.48       67.77555  (10051221)                488270.59
 3616550.48       63.55617  (10051221)
        488320.59   3616550.48       58.42974  (10051221)                488370.59
 3616550.48       55.63880  (10082402)
        488420.59   3616550.48       53.56172  (10082402)                488470.59
 3616550.48       51.62279  (10082402)
        488520.59   3616550.48       49.80787  (10082402)                488570.59
 3616550.48       48.10478  (10082402)
        488620.59   3616550.48       46.50294  (10082402)                487520.59
 3616600.48      236.27440  (10120220)
        487570.59   3616600.48      225.56142  (10120220)                487620.59
 3616600.48      215.31070  (10120220)
        487670.59   3616600.48      202.78981  (10120220)                487720.59
 3616600.48      184.30075  (10120220)
        487770.59   3616600.48      161.38930  (10120220)                487820.59
 3616600.48      137.22263  (10120220)
        487870.59   3616600.48      114.25799  (10120220)                487920.59
 3616600.48       95.59356  (10051221)
        487970.59   3616600.48       88.38834  (10051221)                488020.59
 3616600.48       81.18361  (10051221)
        488070.59   3616600.48       74.36767  (10051221)                488120.59
 3616600.48       67.89993  (10051221)
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       488170.59   3616600.48       62.27128  (10091620)               488220.59
 3616600.48       68.66193  (10122505)
       488270.59   3616600.48       54.16025  (10091620)               488320.59
 3616600.48       62.20168  (10122505)
       488370.59   3616600.48       59.35363  (10122505)               488420.59
 3616600.48       56.72316  (10122505)
       488470.59   3616600.48       54.28719  (10122505)               488520.59
 3616600.48       52.02573  (10122505)
       488570.59   3616600.48       49.92137  (10122505)               488620.59
 3616600.48       47.95890  (10122505)
       487970.59   3616650.48       72.29860  (10051221)               488020.59
 3616650.48       64.06662  (10051221)
       488070.59   3616650.48       56.96235  (10051221)               488120.59
 3616650.48       50.71151  (10051221)
       488170.59   3616650.48       62.17247  (10011218)               488220.59
 3616650.48       61.38217  (10011218)
       488270.59   3616650.48       42.20363  (10011218)               488320.59
 3616650.48       56.87192  (10011218)
       488370.59   3616650.48       65.17676  (10122505)               488420.59
 3616650.48       69.08095  (10122505)
       488470.59   3616650.48       59.83884  (10122505)               488520.59
 3616650.48       57.43630  (10122505)
       488570.59   3616650.48       55.18936  (10122505)               488620.59
 3616650.48       53.08402  (10122505)
       487520.59   3616700.48      230.13220  (10120220)               487570.59
 3616700.48      183.74880  (10120220)
       487620.59   3616700.48      141.80839  (10120220)               487670.59
 3616700.48      117.38890  (10051221)
       487720.59   3616700.48       99.96579  (10051221)               487770.59
 3616700.48       89.31552  (10011218)
       487820.59   3616700.48       81.25793  (10011218)               487870.59
 3616700.48       74.48854  (10011218)
       487920.59   3616700.48       68.71523  (10011218)               487970.59
 3616700.48       63.81142  (10011218)
       488020.59   3616700.48       59.21417  (10011218)               488070.59
 3616700.48       55.40495  (10011218)
       488120.59   3616700.48       52.02781  (10011218)               488170.59
 3616700.48       49.01483  (10011218)
       488220.59   3616700.48       46.31191  (10011218)               488270.59
 3616700.48       43.87543  (10011218)
       488320.59   3616700.48       56.42298  (10011218)               488370.59
 3616700.48       65.48831  (10122505)
       488420.59   3616700.48       63.34071  (10122505)               488470.59
 3616700.48       61.19732  (10122505)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                      ***        11:59:01
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  CONSTRUC ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        488520.59   3616700.48       62.02202  (10122505)               488570.59
 3616700.48       59.82296  (10122505)
        488620.59   3616700.48       54.71941  (10122505)               487470.59
 3616750.48      297.26235  (10022022)
        487520.59   3616750.48      267.36669  (10101723)               487570.59
 3616750.48      157.60997  (10101723)
        487620.59   3616750.48      118.65547  (10101723)               487670.59
 3616750.48      104.38473  (10011218)
        487720.59   3616750.48       93.32530  (10011218)               487770.59
 3616750.48       84.36547  (10011218)
        487820.59   3616750.48       76.96870  (10011218)               487870.59
 3616750.48       70.75479  (10011218)
        487920.59   3616750.48       65.45471  (10011218)               487970.59
 3616750.48       60.86226  (10011218)
        488020.59   3616750.48       56.84573  (10011218)               488070.59
 3616750.48       53.32333  (10011218)
        488120.59   3616750.48       50.19378  (10011218)               488170.59
 3616750.48       47.39500  (10011218)
        488220.59   3616750.48       44.87776  (10011218)               488270.59
 3616750.48       42.60243  (10011218)
        488320.59   3616750.48       52.92657  (10011218)               488370.59
 3616750.48       61.87477  (10122505)
        488420.59   3616750.48       60.17751  (10122505)               488470.59
 3616750.48       58.52213  (10122505)
        488520.59   3616750.48       60.02696  (10122505)               488570.59
 3616750.48       58.18712  (10122505)
        488620.59   3616750.48       53.03889  (10122505)               487120.59
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3616800.48 215.70049 (10060706)
487170.59 3616800.48 218.57406 (10041721) 487220.59
3616800.48 257.56286 (10031321)
487270.59 3616800.48 247.43598 (10022021) 487420.59
3616800.48 274.71238 (10022021)
487470.59 3616800.48 293.98445 (10022022) 487520.59
3616800.48 301.62846 (10022022)
487570.59 3616800.48 277.92381 (10022022) 487620.59
3616800.48 169.92934 (10101723)
487670.59 3616800.48 130.91014 (10101723) 487720.59
3616800.48 98.89592 (10101723)
487770.59 3616800.48 75.97952 (10021518) 487820.59
3616800.48 69.72092 (10021518)
487870.59 3616800.48 64.25297 (10021518) 487920.59
3616800.48 59.44781 (10021518)
487970.59 3616800.48 55.16475 (10021518) 488020.59
3616800.48 63.13136 (10021518)
488070.59 3616800.48 61.71706 (10021518) 488120.59
3616800.48 56.82924 (10021518)
488170.59 3616800.48 54.10061 (10021518) 488220.59
3616800.48 51.57691 (10021518)
488270.59 3616800.48 38.71859 (10011218) 488320.59
3616800.48 57.59297 (10122505)
488370.59 3616800.48 65.49310 (10122505) 488420.59
3616800.48 63.74927 (10122505)
488470.59 3616800.48 62.07055 (10122505) 488520.59
3616800.48 60.45281 (10122505)
488570.59 3616800.48 53.32690 (10122505) 488620.59
3616800.48 57.26903 (10122505)
486470.59 3616850.48 90.91000 (10020323) 486520.59
3616850.48 100.81844 (10020323)
487020.59 3616850.48 224.97759 (10031922) 487070.59
3616850.48 251.22735 (10092521)
487120.59 3616850.48 251.13611 (10071501) 487170.59
3616850.48 244.86315 (10093005)
487220.59 3616850.48 243.11569 (10100223) 487270.59
3616850.48 235.77857 (10031321)
487320.59 3616850.48 230.06424 (10022021) 487370.59
3616850.48 251.48727 (10022021)
487420.59 3616850.48 289.73977 (10100223) 487470.59
3616850.48 293.94285 (10031321)
487520.59 3616850.48 289.00955 (10031321) 487570.59
3616850.48 289.10219 (10022022)
487620.59 3616850.48 259.85065 (10022022) 487670.59
3616850.48 173.51677 (10022022)
487720.59 3616850.48 140.44145 (10101723) 487770.59
3616850.48 108.99145 (10101723)
487820.59 3616850.48 83.26915 (10101723) 487870.59
3616850.48 64.40693 (10101723)
487920.59 3616850.48 70.86880 (10122221) 487970.59

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONSTRUC ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL5 , VOL6 ,
VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 ,
VOL15 , VOL16 , VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 ,
VOL23 , VOL24 , VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
488120.59	3616850.48	55.00811	(10122221)	488170.59	3616850.48	53.90364	(10021518)
488220.59	3616850.48	63.12682	(10122222)	488270.59	3616850.48	47.42176	(10021518)
488320.59	3616850.48	72.56830	(10082401)	488370.59	3616850.48	73.56925	(10082401)
488420.59	3616850.48	71.50968	(10082401)	488470.59	3616850.48	69.22355	(10082401)
488520.59	3616850.48	64.48541	(10082401)	488570.59	3616850.48	64.06746	(10082401)
488620.59	3616850.48	46.04633	(10082401)	486370.59	3616900.48	76.70122	(10020323)
486420.59	3616900.48	83.04036	(10020323)	486470.59	3616900.48	90.53319	(10020323)
486520.59	3616900.48	99.66880	(10020323)	487070.59	3616900.48	229.12389	(10092521)
487120.59	3616900.48	233.73172	(10071503)	487170.59	3616900.48	246.19363	(10092521)

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       487220.59   3616900.48      249.86788  (10071504)                487270.59
3616900.48      253.92300  (10071501)
       487320.59   3616900.48      218.75718  (10031321)                487370.59
3616900.48      264.30610  (10093003)
       487420.59   3616900.48      280.78220  (10071502)                487470.59
3616900.48      288.55257  (10100223)
       487520.59   3616900.48      292.97504  (10031321)                487570.59
3616900.48      287.33529  (10031321)
       487620.59   3616900.48      258.43164  (10022022)                487670.59
3616900.48      209.73958  (10022022)
       487720.59   3616900.48      179.26142  (10022022)                487770.59
3616900.48      148.22069  (10101723)
       487820.59   3616900.48      161.69912  (10101723)                487870.59
3616900.48      119.79932  (10101723)
       487920.59   3616900.48       91.32470  (10080805)                487970.59
3616900.48       68.18434  (10080805)
       488020.59   3616900.48       65.41342  (10122221)                488070.59
3616900.48       62.62562  (10122221)
       488120.59   3616900.48       64.10191  (10122221)                488170.59
3616900.48       66.32338  (10122221)
       488220.59   3616900.48       81.34299  (10122222)                488270.59
3616900.48       55.81822  (10122222)
       488320.59   3616900.48       42.18406  (10021518)                488370.59
3616900.48       70.03303  (10082401)
       488420.59   3616900.48       68.70091  (10082401)                488470.59
3616900.48       66.58792  (10082401)
       488520.59   3616900.48       58.19826  (10082401)                488570.59
3616900.48       48.90062  (10082401)
       488620.59   3616900.48       37.35704  (10021518)                486170.59
3616950.48       57.85250  (10020323)
       486220.59   3616950.48       61.34300  (10020323)                486370.59
3616950.48       74.87728  (10020323)
       486420.59   3616950.48       81.23488  (10020323)                486470.59
3616950.48       89.31204  (10020323)
       486520.59   3616950.48      100.10083  (10020323)                486570.59
3616950.48      115.90357  (10020323)
       486720.59   3616950.48      141.46105  (10120219)                487020.59
3616950.48      268.44283  (10100223)
       487070.59   3616950.48      238.87102  (10031321)                487120.59
3616950.48      233.30661  (10021620)
       487170.59   3616950.48      241.29151  (10092521)                487220.59
3616950.48      244.73076  (10071504)
       487270.59   3616950.48      244.35197  (10071503)                487320.59
3616950.48      236.25442  (10100223)
       487370.59   3616950.48      264.40420  (10093005)                487420.59
3616950.48      266.02948  (10093003)
       487470.59   3616950.48      289.16008  (10071502)                487520.59
3616950.48      285.35281  (10100223)
       487570.59   3616950.48      287.91674  (10031321)                487620.59
3616950.48      237.55697  (10031321)
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3617000.48 57.14935 (10020323)
486270.59 3617000.48 60.23416 (10020323) 486320.59
3617000.48 63.77725 (10020323)
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3617000.48 73.03490 (10020323)
486470.59 3617000.48 78.99695 (10020323) 486520.59
3617000.48 96.72138 (10120219)
486570.59 3617000.48 137.09099 (10120219) 486620.59
3617000.48 141.39577 (10120219)
486670.59 3617000.48 137.64290 (10120219) 486720.59
3617000.48 147.43905 (10121318)
486770.59 3617000.48 163.65702 (10121318) 486820.59
3617000.48 182.05159 (10121401)
486970.59 3617000.48 350.65666 (10093005) 487020.59
3617000.48 291.51804 (10071502)
487070.59 3617000.48 243.86107 (10100223) 487120.59
3617000.48 223.35193 (10031321)
487170.59 3617000.48 233.85038 (10092521) 487220.59
3617000.48 236.31434 (10102919)
487270.59 3617000.48 236.57182 (10071503) 487320.59
3617000.48 243.47049 (10071501)
487370.59 3617000.48 252.12777 (10093005) 487420.59
3617000.48 262.55191 (10071501)
487470.59 3617000.48 273.81222 (10071502) 487520.59
3617000.48 272.17066 (10071502)
487570.59 3617000.48 234.36341 (10100223) 487620.59
3617000.48 245.84172 (10031321)
487670.59 3617000.48 278.20803 (10031321) 487720.59
3617000.48 257.62200 (10022022)
487770.59 3617000.48 258.81418 (10022022) 487820.59
3617000.48 236.51194 (10022022)
487870.59 3617000.48 214.98892 (10101723) 487920.59
3617000.48 186.26826 (10101723)
487970.59 3617000.48 149.67085 (10101723) 488020.59
3617000.48 112.81910 (10101723)
488070.59 3617000.48 87.09490 (10080805) 488120.59
3617000.48 66.59728 (10122221)
488170.59 3617000.48 66.41603 (10122221) 488220.59
3617000.48 87.52773 (10122221)
488270.59 3617000.48 107.04824 (10122221) 488320.59
3617000.48 75.45431 (10122221)
488370.59 3617000.48 48.43369 (10122221) 488420.59
3617000.48 65.91391 (10122222)
488470.59 3617000.48 53.51677 (10122222) 488520.59
3617000.48 42.14667 (10122221)
488570.59 3617000.48 36.20150 (10122221) 488620.59
3617000.48 33.71171 (10020421)
486170.59 3617050.48 47.56811 (10020323) 486220.59
3617050.48 49.19159 (10020323)
486270.59 3617050.48 50.85614 (10020323) 486320.59

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONSTRUC ***
INCLUDING SOURCE(S): VOL1 , VOL2
 , VOL3 , VOL5 , VOL6 ,
  VOL7 , VOL8 , VOL9 , VOL10 , VOL11
 , VOL12 , VOL13 , VOL14 ,
  VOL15 , VOL16 , VOL17 , VOL18 , VOL19
 , VOL20 , VOL21 , VOL22 ,
  VOL23 , VOL24 , VOL25 , VOL26 , VOL27
 , VOL28 , VOL29 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)

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       487370.59   3617050.48      241.37089  (10021620)                487420.59
3617050.48      244.24144  (10093005)
       487470.59   3617050.48      250.39645  (10093005)                487520.59
3617050.48      271.83804  (10071502)
       487570.59   3617050.48      277.26356  (10071502)                487620.59
3617050.48      285.24878  (10100223)
       487670.59   3617050.48      284.56101  (10031321)                487720.59
3617050.48      263.68481  (10031321)
       487770.59   3617050.48      259.55017  (10022022)                487820.59
3617050.48      253.77742  (10022022)
       487870.59   3617050.48      235.66949  (10022022)                487920.59
3617050.48      220.50187  (10101723)
       487970.59   3617050.48      196.58212  (10101723)                488020.59
3617050.48      162.99071  (10101723)
       488070.59   3617050.48      126.26329  (10101723)                488120.59
3617050.48       98.36918  (10080805)
       488170.59   3617050.48       76.52593  (10080805)                488220.59
3617050.48      110.93161  (10122221)
       488270.59   3617050.48      110.19124  (10122222)                488320.59
3617050.48      103.60829  (10122221)
       488370.59   3617050.48       51.13428  (10122221)                488420.59
3617050.48       46.86305  (10122221)
       488470.59   3617050.48       68.39788  (10122221)                488520.59
3617050.48       47.47772  (10122221)
       488570.59   3617050.48       39.39512  (10122221)                488620.59
3617050.48       37.13520  (10122221)
       486220.59   3617100.48       46.92362  (10121401)                486270.59
3617100.48       49.54979  (10101023)
       486320.59   3617100.48       58.10353  (10120219)                486370.59
3617100.48       71.91052  (10120219)
       486420.59   3617100.48       85.89665  (10120219)                486470.59
3617100.48       96.23217  (10120219)
       486520.59   3617100.48       99.15361  (10120219)                486570.59
3617100.48       99.08655  (10120219)
       486620.59   3617100.48      103.57416  (10120219)                486670.59
3617100.48      115.80198  (10121318)
       486720.59   3617100.48      139.27814  (10121318)                486770.59
3617100.48      149.21976  (10121318)
       486820.59   3617100.48      154.93387  (10121318)                486870.59
3617100.48      173.72434  (10092521)
       486920.59   3617100.48      204.47803  (10102919)                486970.59
3617100.48      224.25400  (10011720)
       487020.59   3617100.48      212.31938  (10093005)                487070.59
3617100.48      211.89930  (10093003)
       487120.59   3617100.48      185.19427  (10071502)                487170.59
3617100.48      183.73684  (10092521)
       487220.59   3617100.48      193.50699  (10092521)                487270.59
3617100.48      202.74232  (10092521)
       487320.59   3617100.48      214.06099  (10093004)                487370.59
3617100.48      222.94697  (10021620)
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       487420.59   3617100.48      231.68688  (10071503)                487470.59
 3617100.48      239.61049  (10093005)
       487520.59   3617100.48      244.52447  (10093005)                487570.59
 3617100.48      261.31681  (10071502)
       487620.59   3617100.48      267.97439  (10100223)                487670.59
 3617100.48      271.50024  (10031321)
       487720.59   3617100.48      264.31686  (10031321)                487770.59
 3617100.48      267.16527  (10022022)
       487820.59   3617100.48      275.56769  (10022022)                487870.59
 3617100.48      265.69494  (10022022)
       487920.59   3617100.48      249.31964  (10101723)                487970.59
 3617100.48      214.65288  (10101723)
       488020.59   3617100.48      160.16748  (10101723)                488070.59
 3617100.48      119.51586  (10121522)
       488120.59   3617100.48      119.14188  (10121522)                488170.59
 3617100.48      125.65739  (10121522)
       488220.59   3617100.48      110.65800  (10101702)                488270.59
 3617100.48      110.87182  (10101702)
       488320.59   3617100.48      101.83713  (10101702)                488370.59
 3617100.48       72.82293  (10122221)
       488420.59   3617100.48       48.23320  (10122221)                488470.59
 3617100.48       53.89729  (10122221)
       488520.59   3617100.48       47.52574  (10122221)                488570.59
 3617100.48       83.57452  (10122221)
       488620.59   3617100.48       99.41017  (10122222)                486270.59
 3617150.48       58.08937  (10120219)
       486320.59   3617150.48       69.13633  (10120219)                486370.59
 3617150.48       79.06601  (10120219)
       486420.59   3617150.48       85.62321  (10120219)                486470.59
 3617150.48       87.92977  (10120219)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 175
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  CONSTRUC ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
486520.59	3617150.48	87.57388	(10120219)	486570.59	3617150.48	88.37837	(10120219)
486620.59	3617150.48	108.28366	(10011620)	486670.59	3617150.48	121.62962	(10121318)
486720.59	3617150.48	142.86769	(10121318)	486770.59	3617150.48	154.59604	(10121318)
486820.59	3617150.48	156.66124	(10121318)	486870.59	3617150.48	150.53239	(10121318)
486920.59	3617150.48	171.74633	(10102919)	486970.59	3617150.48	196.45704	(10011720)
487020.59	3617150.48	171.06514	(10092521)	487070.59	3617150.48	179.06648	(10093003)
487120.59	3617150.48	167.71525	(10093003)	487170.59	3617150.48	151.00972	(10092521)
487220.59	3617150.48	186.27117	(10092521)	487270.59	3617150.48	196.17105	(10092521)
487320.59	3617150.48	179.25928	(10092521)	487370.59	3617150.48	187.78204	(10011720)
487420.59	3617150.48	198.48083	(10011720)	487470.59	3617150.48	200.60182	(10071501)
487520.59	3617150.48	179.75351	(10093003)	487570.59	3617150.48	187.93396	(10093003)
487620.59	3617150.48	151.19696	(10093003)	487670.59	3617150.48	156.76617	(10032602)
487720.59	3617150.48	170.89802	(10031321)	487770.59	3617150.48	143.08027	(10022021)
487820.59	3617150.48	155.85484	(10022022)	487870.59	3617150.48	144.85950	(10022022)
487920.59	3617150.48	130.74443	(10022022)	487970.59	3617150.48	121.37264	(10101723)
488020.59	3617150.48	114.41723	(10101707)	488070.59	3617150.48	104.53815	(10101707)
488120.59	3617150.48	97.25129	(10101707)	488170.59	3617150.48	89.85714	(10121522)
488220.59	3617150.48	88.91909	(10101702)	488270.59	3617150.48	99.62277	(10101702)
488320.59	3617150.48	113.78597	(10121522)	488370.59	3617150.48	108.41452	(10101702)
488420.59	3617150.48	66.58700	(10122221)	488470.59	3617150.48	41.20156	(10122221)
488520.59	3617150.48	57.07615	(10122221)	488570.59			

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       488620.59   3617150.48       99.70884  (10122222)                485970.59
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       486020.59   3617200.48       36.78115  (10111518)                486220.59
 3617200.48       57.12235  (10120219)
       486270.59   3617200.48       65.80098  (10120219)                486320.59
 3617200.48       72.92272  (10120219)
       486370.59   3617200.48       77.26681  (10120219)                486420.59
 3617200.48       78.66740  (10120219)
       486470.59   3617200.48       77.79273  (10120219)                486520.59
 3617200.48       74.82210  (10120219)
       486570.59   3617200.48       93.91297  (10011620)                486620.59
 3617200.48      109.98680  (10011620)
       486670.59   3617200.48      130.58010  (10121318)                486720.59
 3617200.48      139.14568  (10121318)
       486770.59   3617200.48      156.76452  (10121318)                486820.59
 3617200.48      156.30449  (10121318)
       486870.59   3617200.48      149.77378  (10040823)                486920.59
 3617200.48      148.26784  (10040823)
       486970.59   3617200.48      143.33570  (10021621)                487020.59
 3617200.48      134.62613  (10021621)
       487070.59   3617200.48      125.81465  (10121022)                487120.59
 3617200.48      122.40217  (10093003)
       487170.59   3617200.48      124.42729  (10121401)                487220.59
 3617200.48      111.15115  (10121401)
       487270.59   3617200.48      118.54780  (10121401)                487320.59
 3617200.48      105.98407  (10121401)
       487370.59   3617200.48      106.53735  (10011720)                487420.59
 3617200.48      113.07443  (10011720)
       487470.59   3617200.48      116.34870  (10093003)                487520.59
 3617200.48      113.03413  (10093003)
       487570.59   3617200.48       98.53650  (10093003)                487620.59
 3617200.48      106.63369  (10041721)
       487670.59   3617200.48      108.41593  (10041721)                487720.59
 3617200.48      104.06843  (10032602)
       487770.59   3617200.48       95.35772  (10022020)                487820.59
 3617200.48       99.88116  (10022021)
       487870.59   3617200.48      104.94506  (10022021)                487920.59
 3617200.48       97.52851  (10022022)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                  PAGE 176
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  CONSTRUC ***
                                   INCLUDING SOURCE(S):     VOL1        , VOL2
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 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        487970.59   3617200.48       97.06306  (10022022)               488020.59
 3617200.48       89.11739  (10101707)
        488070.59   3617200.48       94.18674  (10101707)               488120.59
 3617200.48       95.26012  (10101707)
        488170.59   3617200.48       85.18284  (10101707)               488220.59
 3617200.48       74.11565  (10101707)
        488270.59   3617200.48       79.44920  (10121522)               488320.59
 3617200.48      111.97740  (10121522)
        488370.59   3617200.48      108.92484  (10121522)               488420.59
 3617200.48       98.53957  (10121522)
        488470.59   3617200.48       55.90122  (10080805)               488520.59
 3617200.48       48.46833  (10122221)
        488570.59   3617200.48       86.24705  (10101702)               488620.59
 3617200.48       85.60236  (10101106)
        485920.59   3617250.48       32.88955  (10111518)               485970.59
 3617250.48       34.39891  (10111518)
        486020.59   3617250.48       36.00097  (10111518)               486070.59
 3617250.48       40.45842  (10120219)
        486170.59   3617250.48       55.54061  (10120219)               486220.59
 3617250.48       62.28955  (10120219)
        486270.59   3617250.48       67.40941  (10120219)               486320.59
 3617250.48       70.23539  (10120219)
        486370.59   3617250.48       76.26246  (10120219)               486420.59
 3617250.48       68.84400  (10120219)
        486470.59   3617250.48       63.99478  (10120219)               486520.59
 3617250.48       84.88694  (10011620)
        486570.59   3617250.48      100.36439  (10011620)               486620.59
 3617250.48      119.33653  (10011620)
        486670.59   3617250.48      134.15402  (10121318)               486720.59
 3617250.48      147.00214  (10121318)
        486770.59   3617250.48      154.69152  (10121318)               486820.59
 3617250.48      149.00707  (10121318)
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 3617250.48      136.46630  (10021621)
       486970.59   3617250.48      130.03701  (10021621)                487020.59
 3617250.48      121.09669  (10021621)
       487070.59   3617250.48      114.97610  (10121022)                487120.59
 3617250.48      107.16201  (10121022)
       487170.59   3617250.48       99.99949  (10121022)                487220.59
 3617250.48       94.26514  (10121022)
       487270.59   3617250.48       87.64934  (10120320)                487320.59
 3617250.48       72.33781  (10120320)
       487370.59   3617250.48       71.73297  (10011720)                487420.59
 3617250.48       78.42919  (10011720)
       487470.59   3617250.48       75.55341  (10093003)                487520.59
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       487570.59   3617250.48       80.98399  (10093003)                487620.59
 3617250.48       83.71530  (10041721)
       487670.59   3617250.48       89.55550  (10041721)                487720.59
 3617250.48       84.65051  (10041721)
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 3617250.48       73.66037  (10022021)
       487970.59   3617250.48       76.57144  (10022022)                488020.59
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       488070.59   3617250.48       73.51257  (10022022)                488120.59
 3617250.48       79.75586  (10101707)
       488170.59   3617250.48       81.22046  (10101707)                488220.59
 3617250.48       80.67045  (10101707)
       488270.59   3617250.48       97.04618  (10101707)                488320.59
 3617250.48       95.07880  (10121522)
       488370.59   3617250.48       91.99341  (10121522)                488420.59
 3617250.48      105.43522  (10121522)
       488470.59   3617250.48       77.59575  (10080805)                488520.59
 3617250.48       94.82461  (10101702)
       488570.59   3617250.48       72.89634  (10122221)                488620.59
 3617250.48       95.30202  (10101702)
       485870.59   3617300.48       30.86958  (10111518)                485920.59
 3617300.48       32.22581  (10111518)
       485970.59   3617300.48       34.49529  (10120219)                486020.59
 3617300.48       40.89791  (10120219)
       486070.59   3617300.48       47.41856  (10120219)                486120.59
 3617300.48       53.57176  (10120219)
       486170.59   3617300.48       58.75165  (10120219)                486220.59
 3617300.48       62.36031  (10120219)
       486270.59   3617300.48       63.81451  (10120219)                486320.59
 3617300.48       67.57139  (10120219)
       486370.59   3617300.48       62.55091  (10120219)                486420.59
 3617300.48       64.66478  (10011120)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONSTRUC ***
                                  INCLUDING SOURCE(S):   VOL1   , VOL2
 , VOL3   , VOL5   , VOL6   ,
                 VOL7   , VOL8   , VOL9   , VOL10   , VOL11
 , VOL12   , VOL13   , VOL14   ,
                 VOL15   , VOL16   , VOL17   , VOL18   , VOL19
 , VOL20   , VOL21   , VOL22   ,
                 VOL23   , VOL24   , VOL25   , VOL26   , VOL27
 , VOL28   , VOL29   , . . .   ,

                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

3617300.48 81.08190 (10093003)
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3617300.48 79.10740 (10041721)
487770.59 3617300.48 65.93103 (10041721) 487820.59
3617300.48 64.89292 (10093001)
487870.59 3617300.48 60.76481 (10093001) 487920.59
3617300.48 56.22967 (10110804)
487970.59 3617300.48 55.34531 (10022021) 488020.59
3617300.48 57.06328 (10022022)
488070.59 3617300.48 61.53138 (10022022) 488120.59
3617300.48 61.73534 (10022022)
488170.59 3617300.48 67.95492 (10101707) 488220.59
3617300.48 75.72671 (10101707)
488270.59 3617300.48 92.32926 (10101707) 488320.59
3617300.48 94.15701 (10101707)
488370.59 3617300.48 82.25867 (10101707) 488420.59
3617300.48 95.66790 (10101707)
488470.59 3617300.48 108.09693 (10101723) 488520.59
3617300.48 77.18068 (10121522)
488570.59 3617300.48 93.37056 (10121522) 488620.59
3617300.48 55.50632 (10080805)
485870.59 3617350.48 31.92194 (10111508) 485920.59
3617350.48 35.20967 (10120219)
485970.59 3617350.48 40.87917 (10120219) 486020.59
3617350.48 46.40842 (10120219)
486070.59 3617350.48 51.36168 (10120219) 486120.59
3617350.48 55.25388 (10120219)
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486270.59 3617350.48 60.56908 (10120219) 486320.59
3617350.48 54.49532 (10120219)
486370.59 3617350.48 62.56454 (10021720) 486420.59
3617350.48 68.78105 (10011620)
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3617350.48 126.76844 (10102819)
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3617350.48 108.50196 (10092724)
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3617350.48 80.95463 (10121022)
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3617350.48 70.55912 (10111620)
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONSTRUC ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL5 , VOL6 ,
VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 ,
VOL15 , VOL16 , VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 ,
VOL23 , VOL24 , VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
487670.59	3617350.48	76.01377	(10093003)	487720.59	3617350.48	68.86978	(10041721)
487770.59	3617350.48	62.71849	(10041721)	487820.59	3617350.48	51.40474	(10111521)
487870.59	3617350.48	48.04215	(10111521)	487920.59	3617350.48	48.71374	(10110804)
487970.59	3617350.48	51.41297	(10110804)	488020.59	3617350.48	50.43930	(10110804)
488070.59	3617350.48	50.34311	(10022021)	488120.59	3617350.48	49.77709	(10022022)
488170.59	3617350.48	52.59557	(10100507)	488220.59	3617350.48	63.65697	(10101707)
488270.59	3617350.48	76.79803	(10101707)	488320.59	3617350.48	82.14821	(10101707)

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       488370.59   3617350.48       90.44304  (10101707)               488420.59
3617350.48      105.53241  (10101723)
       488470.59   3617350.48      136.53851  (10101723)               488520.59
3617350.48      101.27161  (10080805)
       488570.59   3617350.48      102.23048  (10080805)               488620.59
3617350.48       75.96425  (10080805)
       485870.59   3617400.48       35.54656  (10120219)               485920.59
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       485970.59   3617400.48       45.10183  (10120219)               486020.59
3617400.48       49.01375  (10120219)
       486070.59   3617400.48       51.83576  (10120219)               486120.59
3617400.48       53.28070  (10120219)
       486170.59   3617400.48       53.09673  (10120219)               486220.59
3617400.48       53.73591  (10120219)
       486270.59   3617400.48       47.55507  (10120219)               486320.59
3617400.48       56.79528  (10021720)
       486370.59   3617400.48       72.31454  (10011620)               486420.59
3617400.48       88.18659  (10011620)
       486470.59   3617400.48      100.53301  (10011620)               486520.59
3617400.48      118.65634  (10011620)
       486570.59   3617400.48      128.30402  (10011620)               486620.59
3617400.48      133.76989  (10121318)
       486670.59   3617400.48      139.28178  (10121318)               486720.59
3617400.48      136.12135  (10121318)
       486770.59   3617400.48      124.07368  (10102819)               486820.59
3617400.48      117.17350  (10092724)
       486870.59   3617400.48      108.18744  (10092724)               486920.59
3617400.48       96.97203  (10092724)
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       487370.59   3617400.48       64.73027  (10011720)               487420.59
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3617400.48       62.67539  (10111520)
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       487670.59   3617400.48       75.83650  (10093003)               487720.59
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       487770.59   3617400.48       51.83181  (10041721)               487820.59
3617400.48       51.47196  (10041721)
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3617400.48       51.32345  (10110804)
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       486170.59   3617500.48       47.74687  (10021720)                486220.59
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       486270.59   3617500.48       66.11673  (10020321)                486320.59
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 3617500.48       55.01529  (10092724)
       487070.59   3617500.48       46.09874  (10111620)                487120.59
 3617500.48       47.90056  (10111620)
       487170.59   3617500.48       48.72818  (10111620)                487220.59
 3617500.48       52.09907  (10111620)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE 180
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  CONSTRUC ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_2.5   IN MICROGRAMS/M**3
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
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487370.59	3617500.48	64.14738	(10011720)	487420.59	3617500.48	63.73216	(10011720)
487470.59	3617500.48	52.95850	(10102521)	487520.59	3617500.48	48.35859	(10111520)
487570.59	3617500.48	38.15237	(10111520)	487620.59	3617500.48	31.83192	(10121820)
487670.59	3617500.48	34.52941	(10121820)	487720.59	3617500.48	34.80622	(10100103)
487770.59	3617500.48	35.32705	(10100103)	487820.59	3617500.48	39.12770	(10041721)
487870.59	3617500.48	40.39767	(10041721)	487920.59	3617500.48	37.48802	(10111521)
487970.59	3617500.48	38.21408	(10111521)	488020.59	3617500.48	35.20973	(10090723)
488070.59	3617500.48	36.46532	(10110804)	488120.59	3617500.48	38.52368	(10110804)
488170.59	3617500.48	38.35839	(10110804)	488220.59	3617500.48	40.73205	(10022021)
488270.59	3617500.48	41.54674	(10022021)	488320.59	3617500.48	38.14841	(10101720)
488370.59	3617500.48	60.19174	(10101720)	488420.59	3617500.48	182.69207	(10022022)
488470.59	3617500.48	171.64709	(10022022)	488520.59	3617500.48	157.44271	(10022022)
488570.59	3617500.48	149.96520	(10101723)	488620.59	3617500.48	146.84420	(10101723)
485870.59	3617550.48	41.71243	(10120219)	485920.59	3617550.48	42.30279	(10120219)
485970.59	3617550.48	45.48752	(10120219)	486020.59	3617550.48	42.17160	(10120219)
486070.59	3617550.48	37.33524	(10120219)	486120.59	3617550.48	43.28029	(10021720)
486170.59	3617550.48	44.99504	(10011120)	486220.59	3617550.48	57.32038	(10020321)
486270.59	3617550.48	72.73134	(10011620)	486320.59	3617550.48	92.94353	(10011620)
486370.59	3617550.48	102.94712	(10011620)	486420.59	3617550.48	115.95334	(10011620)
486470.59	3617550.48	120.22786	(10011620)	486520.59	3617550.48	119.98252	(10121318)
486570.59	3617550.48	124.35541	(10121318)	486620.59	3617550.48	119.71829	(10121318)
486670.59	3617550.48	106.30669	(10121318)	486720.59	3617550.48	96.09852	(10092724)

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       487070.59   3617550.48       38.09605  (10092923)                487120.59
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 3617550.48       30.24804  (10110804)
       488170.59   3617550.48       33.07257  (10110804)                488220.59
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 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE 181
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  CONSTRUC ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
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                VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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        486270.59   3617600.48       73.99148  (10011620)               486320.59
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        486370.59   3617600.48      113.99697  (10011620)               486420.59
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 3617600.48      118.43888  (10121318)
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3617650.48 110.19522 (10011620)
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3617650.48 114.08175 (10121318)
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3617650.48 96.28392 (10121318)
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3617650.48 81.74781 (10092724)
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3617650.48 59.58788 (10092724)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONSTRUC ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL5 , VOL6 ,
VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 ,
VOL15 , VOL16 , VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 ,
VOL23 , VOL24 , VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
486870.59	3617650.48	50.76544	(10092724)	486920.59	3617650.48	43.44850	(10092724)
486970.59	3617650.48	37.71024	(10011717)	487020.59	3617650.48	36.26753	(10011717)
487070.59	3617650.48	36.82200	(10092923)	487120.59	3617650.48	38.00923	(10111620)
487170.59	3617650.48	44.69341	(10111620)	487220.59	3617650.48	58.88916	(10111620)
487270.59	3617650.48	44.12610	(10111620)	487320.59	3617650.48	31.28421	(10010909)
487370.59	3617650.48	33.08056	(10010909)	487420.59	3617650.48	34.79579	(10010909)
487470.59	3617650.48	35.63956	(10010909)	487520.59	3617650.48	34.90490	(10010909)
487570.59	3617650.48	32.17618	(10010909)	487620.59	3617650.48	29.93691	(10120809)
487670.59	3617650.48	26.76794	(10102817)	487720.59	3617650.48	25.62371	(10121820)
487770.59	3617650.48	27.20590	(10100103)	487820.59	3617650.48	26.95851	(10100103)
487870.59	3617650.48	26.37595	(10060106)	487920.59	3617650.48	26.44340	(10060106)
487970.59	3617650.48	26.80792	(10041721)	488020.59	3617650.48	25.23763	(10101507)
488070.59	3617650.48	24.29160	(10060306)	488120.59	3617650.48	27.71498	(10073106)
488170.59	3617650.48	31.15133	(10090723)	488220.59	3617650.48	34.46257	(10110804)

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       488370.59   3617650.48       94.66672  (10022021)                488420.59
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       488470.59   3617650.48      154.08393  (10022022)                488520.59
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       488570.59   3617650.48      165.87765  (10022022)                488620.59
3617650.48      168.78391  (10022022)
       485870.59   3617700.48       30.45473  (10120219)                485920.59
3617700.48       29.06407  (10021720)
       485970.59   3617700.48       34.58144  (10021720)                486020.59
3617700.48       36.78884  (10011120)
       486070.59   3617700.48       46.24133  (10020321)                486120.59
3617700.48       56.52433  (10020321)
       486170.59   3617700.48       64.87309  (10011620)                486220.59
3617700.48       79.28470  (10011620)
       486270.59   3617700.48       96.54993  (10011620)                486320.59
3617700.48      106.99378  (10011620)
       486370.59   3617700.48      109.10384  (10011620)                486420.59
3617700.48      107.35470  (10121318)
       486470.59   3617700.48      112.96132  (10121318)                486520.59
3617700.48      108.21527  (10121318)
       486570.59   3617700.48       98.14076  (10121318)                486620.59
3617700.48       84.32165  (10102819)
       486670.59   3617700.48       80.58861  (10092724)                486720.59
3617700.48       70.62538  (10092724)
       486770.59   3617700.48       60.03687  (10092724)                486820.59
3617700.48       50.67144  (10092724)
       486870.59   3617700.48       42.60326  (10092724)                486920.59
3617700.48       39.20940  (10092724)
       486970.59   3617700.48       37.00112  (10011717)                487020.59
3617700.48       36.44925  (10111620)
       487070.59   3617700.48       37.52865  (10111620)                487120.59
3617700.48       38.82087  (10111620)
       487170.59   3617700.48       41.65574  (10111620)                487220.59
3617700.48       38.64625  (10111620)
       487270.59   3617700.48       32.89842  (10120309)                487320.59
3617700.48       30.88003  (10010909)
       487370.59   3617700.48       32.47468  (10010909)                487420.59
3617700.48       34.12100  (10010909)
       487470.59   3617700.48       35.10273  (10010909)                487520.59
3617700.48       34.70488  (10010909)
       487570.59   3617700.48       32.47585  (10010909)                487620.59
3617700.48       30.08082  (10120809)
       487670.59   3617700.48       27.41856  (10120809)                487720.59
3617700.48       23.71995  (10121820)
       487770.59   3617700.48       23.72505  (10121820)                487820.59
3617700.48       25.47240  (10100103)
       487870.59   3617700.48       24.40137  (10100103)                487920.59
3617700.48       25.13080  (10060106)
```

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                 INCLUDING SOURCE(S):   VOL1   , VOL2
 , VOL3   , VOL5   , VOL6   ,
                 VOL7   , VOL8   , VOL9   , VOL10   , VOL11
 , VOL12   , VOL13   , VOL14   ,
                 VOL15   , VOL16   , VOL17   , VOL18   , VOL19
 , VOL20   , VOL21   , VOL22   ,
                 VOL23   , VOL24   , VOL25   , VOL26   , VOL27
 , VOL28   , VOL29   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        488070.59   3617700.48   26.74013 (10050823)   488120.59
 3617700.48   34.70024 (10111521)
        488170.59   3617700.48   37.63026 (10111521)   488220.59
 3617700.48   45.75656 (10090723)
        488270.59   3617700.48   50.62337 (10022020)   488320.59
 3617700.48   56.20505 (10022020)
        488370.59   3617700.48   76.87982 (10022021)   488420.59
 3617700.48   168.45246 (10031321)
        488470.59   3617700.48   148.11421 (10031321)   488520.59
 3617700.48   148.28176 (10022022)
        488570.59   3617700.48   156.06536 (10022022)   488620.59
 3617700.48   163.72294 (10022022)
        485870.59   3617750.48   27.13805 (10021720)   485920.59
 3617750.48   34.49606 (10021720)
        485970.59   3617750.48   35.91924 (10011120)   486020.59
 3617750.48   52.10709 (10020321)
        486070.59   3617750.48   56.12400 (10020321)   486120.59
 3617750.48   62.70508 (10011620)
        486170.59   3617750.48   74.53070 (10011620)   486220.59

3617750.48 89.94181 (10011620)
486270.59 3617750.48 101.77485 (10011620) 486320.59
3617750.48 102.96427 (10011620)
486370.59 3617750.48 101.16326 (10121318) 486420.59
3617750.48 109.12071 (10121318)
486470.59 3617750.48 109.44461 (10121318) 486520.59
3617750.48 102.12408 (10121318)
486570.59 3617750.48 90.65143 (10121318) 486620.59
3617750.48 77.84067 (10092724)
486670.59 3617750.48 72.54862 (10092724) 486720.59
3617750.48 63.09604 (10092724)
486770.59 3617750.48 53.32109 (10092724) 486820.59
3617750.48 44.19373 (10092724)
486870.59 3617750.48 41.62098 (10092724) 486920.59
3617750.48 38.79278 (10092724)
486970.59 3617750.48 36.65283 (10011717) 487020.59
3617750.48 37.30165 (10111620)
487070.59 3617750.48 38.34999 (10111620) 487120.59
3617750.48 38.82781 (10111620)
487170.59 3617750.48 36.09247 (10092923) 487220.59
3617750.48 33.73322 (10120309)
487270.59 3617750.48 32.47082 (10120309) 487320.59
3617750.48 30.54659 (10010909)
487370.59 3617750.48 31.94684 (10010909) 487420.59
3617750.48 33.49896 (10010909)
487470.59 3617750.48 34.56381 (10010909) 487520.59
3617750.48 34.44987 (10010909)
487570.59 3617750.48 32.67003 (10010909) 487620.59
3617750.48 30.08975 (10120809)
487670.59 3617750.48 27.95464 (10120809) 487720.59
3617750.48 24.45401 (10120809)
487770.59 3617750.48 21.38769 (10121820) 487820.59
3617750.48 22.76780 (10100103)
487870.59 3617750.48 24.20397 (10100103) 487920.59
3617750.48 23.95145 (10060106)
487970.59 3617750.48 25.97554 (10041721) 488020.59
3617750.48 27.69199 (10041721)
488070.59 3617750.48 34.67193 (10041721) 488120.59
3617750.48 45.67141 (10111521)
488170.59 3617750.48 46.19342 (10111521) 488220.59
3617750.48 62.79159 (10093001)
488270.59 3617750.48 76.83119 (10093001) 488320.59
3617750.48 90.56893 (10031321)
488370.59 3617750.48 173.27579 (10031321) 488420.59
3617750.48 182.88541 (10031321)
488470.59 3617750.48 171.02718 (10031321) 488520.59
3617750.48 146.34334 (10031321)
488570.59 3617750.48 142.32577 (10022022) 488620.59
3617750.48 153.29188 (10022022)
485870.59 3617800.48 32.25823 (10021720) 485920.59

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONSTRUC ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL5 , VOL6 ,
  VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 ,
  VOL15 , VOL16 , VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 ,
  VOL23 , VOL24 , VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
486520.59	3617800.48	98.62853	(10121318)	486570.59	3617800.48	80.08661	(10102819)
486620.59	3617800.48	72.77268	(10092724)	486670.59	3617800.48	66.37897	(10092724)
486720.59	3617800.48	56.70257	(10092724)	486770.59	3617800.48	47.56641	(10092724)
486820.59	3617800.48	44.09376	(10092724)	486870.59	3617800.48	41.33494	(10092724)
486920.59	3617800.48	38.05621	(10092724)	486970.59	3617800.48	37.42687	(10111620)

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       487020.59   3617800.48       35.28330  (10111620)               487070.59
3617800.48       33.82687  (10120309)
       487120.59   3617800.48       33.93589  (10120309)               487170.59
3617800.48       33.90578  (10120309)
       487220.59   3617800.48       33.40463  (10120309)               487270.59
3617800.48       32.04342  (10120309)
       487320.59   3617800.48       30.25480  (10010909)               487370.59
3617800.48       31.48446  (10010909)
       487420.59   3617800.48       32.92737  (10010909)               487470.59
3617800.48       34.02699  (10010909)
       487520.59   3617800.48       34.14034  (10010909)               487570.59
3617800.48       32.75302  (10010909)
       487620.59   3617800.48       29.96528  (10120809)               487670.59
3617800.48       28.32235  (10120809)
       487720.59   3617800.48       25.32349  (10120809)               487770.59
3617800.48       21.30654  (10120809)
       487820.59   3617800.48       20.10012  (10100103)               487870.59
3617800.48       23.68951  (10100103)
       487920.59   3617800.48       27.69315  (10100103)               487970.59
3617800.48       30.53181  (10041721)
       488020.59   3617800.48       44.79424  (10041721)               488070.59
3617800.48       56.59997  (10041721)
       488120.59   3617800.48       74.04666  (10041721)               488170.59
3617800.48       74.06327  (10032602)
       488220.59   3617800.48      119.09815  (10100223)               488270.59
3617800.48      127.92137  (10100223)
       488320.59   3617800.48      193.37133  (10100223)               488370.59
3617800.48      182.61797  (10031321)
       488420.59   3617800.48      187.53914  (10031321)               488470.59
3617800.48      183.12901  (10031321)
       488520.59   3617800.48      167.77508  (10031321)               488570.59
3617800.48      144.47054  (10031321)
       488620.59   3617800.48      139.52416  (10022022)               485870.59
3617850.48       30.79560  (10011120)
       485920.59   3617850.48       38.88870  (10020321)               485970.59
3617850.48       50.17979  (10020321)
       486020.59   3617850.48       56.20687  (10011620)               486070.59
3617850.48       75.10359  (10011620)
       486120.59   3617850.48       85.03108  (10011620)               486170.59
3617850.48       95.65678  (10011620)
       486220.59   3617850.48       99.34851  (10011620)               486420.59
3617850.48      104.74420  (10121318)
       486470.59   3617850.48       98.51038  (10121318)               486520.59
3617850.48       87.13606  (10121318)
       486570.59   3617850.48       75.34875  (10102819)               486620.59
3617850.48       66.32479  (10092724)
       486670.59   3617850.48       58.04234  (10092724)               486720.59
3617850.48       50.38303  (10092724)
       486770.59   3617850.48       43.68956  (10092724)               486820.59
3617850.48       41.18893  (10092724)
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       486870.59   3617850.48       40.79089  (10092724)                486920.59
 3617850.48       37.41129  (10111620)
       486970.59   3617850.48       35.71817  (10111620)                487020.59
 3617850.48       33.35528  (10120309)
       487070.59   3617850.48       33.70357  (10120309)                487120.59
 3617850.48       33.81495  (10120309)
       487170.59   3617850.48       33.67418  (10120309)                487220.59
 3617850.48       33.07861  (10120309)
       487270.59   3617850.48       31.65662  (10120309)                487320.59
 3617850.48       29.98946  (10010909)
       487370.59   3617850.48       31.08308  (10010909)                487420.59
 3617850.48       32.40984  (10010909)
       487470.59   3617850.48       33.50740  (10010909)                487520.59
 3617850.48       33.79119  (10010909)
       487570.59   3617850.48       32.74611  (10010909)                487620.59
 3617850.48       30.12822  (10010909)
       487670.59   3617850.48       28.53984  (10120809)                487720.59
 3617850.48       26.02140  (10120809)
       487770.59   3617850.48       22.41323  (10120809)                487820.59
 3617850.48       19.56743  (10121820)
↟ *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                   PAGE 185
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  CONSTRUC ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       487870.59   3617850.48       24.59730  (10100103)                487920.59
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3617850.48 29.11419 (10100103)
487970.59 3617850.48 33.71243 (10100103) 488020.59
3617850.48 44.94955 (10041721)
488070.59 3617850.48 72.71545 (10041721) 488120.59
3617850.48 122.88711 (10071502)
488170.59 3617850.48 117.08660 (10071502) 488220.59
3617850.48 114.71229 (10100223)
488270.59 3617850.48 124.66081 (10100223) 488320.59
3617850.48 134.19858 (10100223)
488370.59 3617850.48 180.56047 (10100223) 488420.59
3617850.48 181.23919 (10031321)
488470.59 3617850.48 184.56620 (10031321) 488520.59
3617850.48 179.13571 (10031321)
488570.59 3617850.48 164.61860 (10031321) 488620.59
3617850.48 142.54006 (10031321)
485870.59 3617900.48 36.25869 (10020321) 485920.59
3617900.48 47.53393 (10020321)
485970.59 3617900.48 50.04158 (10011620) 486020.59
3617900.48 71.06391 (10011620)
486070.59 3617900.48 78.74267 (10011620) 486120.59
3617900.48 92.47387 (10011620)
486170.59 3617900.48 96.82289 (10011620) 486470.59
3617900.48 88.84865 (10121318)
486520.59 3617900.48 75.46759 (10102819) 486570.59
3617900.48 65.85639 (10092724)
486620.59 3617900.48 62.27761 (10092724) 486670.59
3617900.48 51.04862 (10092724)
486720.59 3617900.48 42.90020 (10092724) 486770.59
3617900.48 40.52258 (10092724)
486820.59 3617900.48 38.04799 (10092724) 486870.59
3617900.48 38.23318 (10092724)
486920.59 3617900.48 34.61794 (10011717) 486970.59
3617900.48 32.25654 (10120309)
487020.59 3617900.48 33.17806 (10120309) 487070.59
3617900.48 33.52996 (10120309)
487120.59 3617900.48 33.61308 (10120309) 487170.59
3617900.48 33.41540 (10120309)
487220.59 3617900.48 32.76092 (10120309) 487270.59
3617900.48 31.26697 (10120309)
487320.59 3617900.48 29.72510 (10010909) 487370.59
3617900.48 30.72629 (10010909)
487420.59 3617900.48 31.94145 (10010909) 487470.59
3617900.48 33.02085 (10010909)
487520.59 3617900.48 33.43524 (10010909) 487570.59
3617900.48 32.68158 (10010909)
487620.59 3617900.48 30.47204 (10010909) 487670.59
3617900.48 28.64452 (10120809)
487720.59 3617900.48 26.56316 (10120809) 487770.59
3617900.48 23.36371 (10120809)
487820.59 3617900.48 19.43804 (10120809) 487870.59

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 3617900.48       23.77937  (10121820)
       487920.59   3617900.48       32.90024  (10100103)                487970.59
 3617900.48       42.36048  (10100103)
       488020.59   3617900.48       51.50276  (10093003)                488070.59
 3617900.48       81.01230  (10093003)
       488120.59   3617900.48      101.26718  (10071502)                488170.59
 3617900.48      101.56374  (10071502)
       488220.59   3617900.48       68.97745  (10081623)                488270.59
 3617900.48       91.51453  (10100223)
       488320.59   3617900.48       96.79025  (10100223)                488370.59
 3617900.48      198.93608  (10100223)
       488420.59   3617900.48      179.14092  (10100223)                488470.59
 3617900.48      178.75984  (10031321)
       488520.59   3617900.48      180.50418  (10031321)                488570.59
 3617900.48      175.29371  (10031321)
       488620.59   3617900.48      161.43091  (10031321)                485870.59
 3617950.48       45.07985  (10020321)
       485920.59   3617950.48       47.36585  (10020321)                485970.59
 3617950.48       61.07376  (10011620)
       486020.59   3617950.48       72.05424  (10011620)                486070.59
 3617950.48       89.23567  (10011620)
       487077.48   3618005.05       33.14198  (10120309)                487127.48
 3618005.05       33.17627  (10120309)
       487177.48   3618005.05       32.82977  (10120309)                487227.48
 3618005.05       31.93498  (10120309)
       487277.48   3618005.05       30.25275  (10120309)                487327.48
 3618005.05       29.25257  (10010909)
       486470.59   3617950.48       83.07798  (10121318)                486520.59
 3617950.48       69.75412  (10102819)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 186
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  CONSTRUC ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                               *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
486570.59	3617950.48	61.61796	(10092724)	486620.59	3617950.48	56.90851	(10092724)
486670.59	3617950.48	46.03110	(10092724)	486720.59	3617950.48	39.52015	(10092724)
486770.59	3617950.48	36.01411	(10092724)	486820.59	3617950.48	41.59875	(10092724)
486870.59	3617950.48	34.60790	(10011717)	486920.59	3617950.48	30.13690	(10120309)
486970.59	3617950.48	32.00544	(10120309)	487020.59	3617950.48	32.94406	(10120309)
487070.59	3617950.48	33.32955	(10120309)	487120.59	3617950.48	33.41443	(10120309)
487170.59	3617950.48	33.17700	(10120309)	487220.59	3617950.48	32.43933	(10120309)
487270.59	3617950.48	30.92096	(10120309)	487320.59	3617950.48	29.45672	(10010909)
487370.59	3617950.48	30.39535	(10010909)	487420.59	3617950.48	31.51620	(10010909)
487470.59	3617950.48	32.56119	(10010909)	487520.59	3617950.48	33.06974	(10010909)
487570.59	3617950.48	32.56045	(10010909)	487620.59	3617950.48	30.71333	(10010909)
487670.59	3617950.48	28.64011	(10120809)	487720.59	3617950.48	26.96034	(10120809)
487770.59	3617950.48	24.16914	(10120809)	487820.59	3617950.48	20.55982	(10120809)
487870.59	3617950.48	23.74762	(10121820)	487920.59	3617950.48	36.19813	(10100103)
487970.59	3617950.48	49.28146	(10093003)	488020.59	3617950.48	70.18667	(10093003)
488070.59	3617950.48	87.87734	(10093003)	488120.59	3617950.48	82.06446	(10041721)
488170.59	3617950.48	65.68256	(10041721)	488220.59	3617950.48	51.37495	(10041721)
488270.59	3617950.48	55.89117	(10032602)	488320.59	3617950.48	99.55776	(10100223)
488370.59	3617950.48	181.23033	(10100223)	488420.59	3617950.48	184.28421	(10100223)
488470.59	3617950.48	174.14863	(10100223)	488520.59	3617950.48	173.89158	(10031321)
488570.59	3617950.48	176.59740	(10031321)	488620.59	3617950.48	171.59812	(10031321)

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       487840.14   3615798.03       81.27348  (10121005)               487890.14
 3615798.03       81.39426  (10121005)
       487940.14   3615798.03       78.18534  (10121005)               487990.14
 3615798.03       72.48735  (10121005)
       488240.14   3615798.03       50.61735  (10051223)               488290.14
 3615798.03       53.27858  (10051223)
       488340.14   3615798.03       54.71046  (10051223)               488390.14
 3615798.03       54.85349  (10051223)
       488440.14   3615798.03       53.73598  (10051223)               488490.14
 3615798.03       51.65249  (10051223)
       488540.14   3615798.03       48.69076  (10051223)               488590.14
 3615798.03       50.21859  (10051222)
       487940.14   3615848.03       76.84017  (10121005)               487990.14
 3615848.03       69.11379  (10121005)
       488040.14   3615848.03       60.54682  (10121005)               488190.14
 3615848.03       55.06110  (10051223)
       488240.14   3615848.03       57.35139  (10051223)               488290.14
 3615848.03       58.23343  (10051223)
       488340.14   3615848.03       57.78233  (10051223)               488390.14
 3615848.03       56.07309  (10051223)
       488440.14   3615848.03       53.28715  (10051223)               488490.14
 3615848.03       52.96108  (10051222)
       488540.14   3615848.03       56.51899  (10051222)               488590.14
 3615848.03       59.30896  (10051222)
       487740.14   3615898.03       90.24501  (10121005)               487990.14
 3615898.03       64.24318  (10121005)
       488040.14   3615898.03       55.35216  (10120606)               488090.14
 3615898.03       56.35741  (10051223)
       488140.14   3615898.03       59.81780  (10051223)               488190.14
 3615898.03       61.65339  (10051223)
       488240.14   3615898.03       61.90013  (10051223)               488290.14
 3615898.03       60.69834  (10051223)
       488340.14   3615898.03       58.30374  (10051223)               488390.14
 3615898.03       56.04511  (10051222)
       488440.14   3615898.03       59.99497  (10051222)               488490.14
 3615898.03       63.15205  (10051222)
       488540.14   3615898.03       65.39069  (10051222)               488590.14
 3615898.03       66.68375  (10051222)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 187
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  CONSTRUC ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
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                VOL7       , VOL8       , VOL9       , VOL10      , VOL11
 , VOL12      , VOL13      , VOL14      ,
                VOL15      , VOL16      , VOL17      , VOL18      , VOL19
 , VOL20      , VOL21      , VOL22      ,
                VOL23      , VOL24      , VOL25      , VOL26      , VOL27
 , VOL28      , VOL29      ,  . . .     ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        487690.14   3615948.03       95.39502  (10121005)               487740.14
 3615948.03       96.98222  (10121005)
        487790.14   3615948.03       93.90458  (10121005)               488090.14
 3615948.03       64.93206  (10051223)
        488140.14   3615948.03       66.10521  (10051223)               488190.14
 3615948.03       65.60596  (10051223)
        488240.14   3615948.03       63.44650  (10051223)               488290.14
 3615948.03       60.29695  (10051223)
        488340.14   3615948.03       63.90227  (10051222)               488390.14
 3615948.03       67.43556  (10051222)
        488440.14   3615948.03       69.99077  (10051222)               488490.14
 3615948.03       71.48145  (10051222)
        488540.14   3615948.03       71.92362  (10051222)               488590.14
 3615948.03       71.35854  (10051222)
        487690.14   3615998.03      103.59919  (10121005)               487740.14
 3615998.03      100.56292  (10121005)
        487790.14   3615998.03       93.31961  (10121005)               487840.14
 3615998.03       83.54568  (10121005)
        487890.14   3615998.03       73.05679  (10121005)               488090.14
 3615998.03       70.72293  (10051223)
        488140.14   3615998.03       69.33342  (10051223)               488190.14
 3615998.03      104.86050  (10101906)
        488240.14   3615998.03      112.32863  (10101906)               488290.14
 3615998.03       90.49136  (10051222)
        488340.14   3615998.03       75.11747  (10051222)               488390.14
 3615998.03       76.84617  (10051222)
        488440.14   3615998.03       77.40333  (10051222)               488490.14
 3615998.03       76.82106  (10051222)
        488540.14   3615998.03       75.18913  (10051222)               488590.14
 3615998.03       72.61692  (10051222)
        487540.14   3616048.03      122.19114  (10012722)               487790.14
 3616048.03       89.57556  (10121005)
        487840.14   3616048.03       78.04050  (10121005)               487890.14
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 3616048.03       70.81430  (10051223)
       487940.14   3616048.03       74.70375  (10051223)                488090.14
 3616048.03       73.05846  (10051223)
       488140.14   3616048.03       73.03487  (10051222)                488190.14
 3616048.03      105.66846  (10101906)
       488240.14   3616048.03      104.97692  (10051222)                488290.14
 3616048.03      103.53590  (10051222)
       488340.14   3616048.03       83.51798  (10051222)                488390.14
 3616048.03       82.92989  (10051222)
       488440.14   3616048.03       81.17441  (10051222)                488490.14
 3616048.03       78.35415  (10051222)
       488540.14   3616048.03       74.61377  (10051222)                488590.14
 3616048.03       70.12954  (10051222)
       487540.14   3616098.03      123.96867  (10012722)                487590.14
 3616098.03      117.88238  (10121005)
       487640.14   3616098.03      116.27177  (10121005)                487890.14
 3616098.03       81.87065  (10051223)
       487940.14   3616098.03       82.17407  (10051223)                487990.14
 3616098.03       80.19271  (10051223)
       488040.14   3616098.03       79.32115  (10051222)                488090.14
 3616098.03       84.00667  (10051222)
       488140.14   3616098.03      108.35188  (10051222)                488190.14
 3616098.03      113.41086  (10051222)
       488240.14   3616098.03      113.53294  (10051222)                488290.14
 3616098.03      108.25062  (10051222)
       488340.14   3616098.03       87.86725  (10051222)                488390.14
 3616098.03       84.77618  (10051222)
       488440.14   3616098.03       80.65630  (10051222)                488490.14
 3616098.03       75.68937  (10051222)
       488540.14   3616098.03       83.14742  (10120220)                488590.14
 3616098.03       86.56384  (10120220)
       487540.14   3616148.03      128.37209  (10121005)                487590.14
 3616148.03      126.29726  (10121005)
       487640.14   3616148.03      116.70043  (10121005)                487690.14
 3616148.03      104.29746  (10121005)
       487940.14   3616148.03       86.22033  (10051222)                487990.14
 3616148.03       91.96604  (10051222)
       488040.14   3616148.03       95.56169  (10051222)                488090.14
 3616148.03       97.55366  (10051222)
       488140.14   3616148.03      119.54569  (10051222)                488190.14
 3616148.03      119.37117  (10051222)
       488240.14   3616148.03      114.01366  (10051222)                488290.14
 3616148.03      104.46675  (10051222)
       488340.14   3616148.03       87.45658  (10051222)                488390.14
 3616148.03       81.93741  (10051222)
       488440.14   3616148.03       78.47390  (10120220)                488490.14
 3616148.03       93.41966  (10120220)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONSTRUC ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL5 , VOL6 ,
VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 ,
VOL15 , VOL16 , VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 ,
VOL23 , VOL24 , VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
488540.14	3616148.03	94.65588	(10120220)	488590.14	3616148.03	93.48918	(10120220)
487590.14	3616198.03	128.01081	(10121005)	487640.14	3616198.03	113.48480	(10121005)
487690.14	3616198.03	97.75369	(10121005)	487740.14	3616198.03	97.00570	(10051223)
487990.14	3616198.03	107.76087	(10051222)	488040.14	3616198.03	107.64102	(10051222)
488090.14	3616198.03	106.59389	(10051222)	488140.14	3616198.03	120.66959	(10051222)
488190.14	3616198.03	115.24399	(10051222)	488240.14	3616198.03	105.70106	(10051222)
488290.14	3616198.03	101.00394	(10120220)	488340.14	3616198.03	87.33932	(10120220)
488390.14	3616198.03	88.01096	(10120220)	488440.14	3616198.03	100.59812	(10120220)
488490.14	3616198.03	100.24836	(10120220)	488540.14	3616198.03	97.07976	(10120220)
488590.14	3616198.03	93.02806	(10120220)	487690.14	3616248.03	108.13611	(10051223)
487740.14	3616248.03	106.10470	(10051223)	487790.14	3616248.03	110.93147	(10051222)
487840.14	3616248.03	116.92098	(10051222)	487940.14	3616248.03	119.49040	(10051222)

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       487990.14   3616248.03      117.12064  (10051222)                488040.14
3616248.03      114.25419  (10051222)
       488090.14   3616248.03      109.91947  (10051222)                488140.14
3616248.03      112.85201  (10051222)
       488190.14   3616248.03      113.27427  (10120220)                488240.14
3616248.03      114.63852  (10120220)
       488290.14   3616248.03      112.22415  (10120220)                488340.14
3616248.03       96.49298  (10120220)
       488390.14   3616248.03       94.74581  (10120220)                488440.14
3616248.03      102.98664  (10120220)
       488490.14   3616248.03       97.87471  (10120220)                488540.14
3616248.03       92.10140  (10120220)
       488590.14   3616248.03       85.86908  (10120220)                487690.14
3616298.03      126.43893  (10051222)
       487740.14   3616298.03      129.79272  (10051222)                487790.14
3616298.03      131.42490  (10051222)
       487840.14   3616298.03      131.74937  (10051222)                487890.14
3616298.03      130.85964  (10051222)
       487940.14   3616298.03      126.49068  (10051222)                487990.14
3616298.03      121.10045  (10051222)
       488040.14   3616298.03      114.75475  (10051222)                488090.14
3616298.03      108.36610  (10120220)
       488140.14   3616298.03      123.67252  (10120220)                488190.14
3616298.03      123.83911  (10120220)
       488240.14   3616298.03      120.78950  (10120220)                488290.14
3616298.03      114.27575  (10120220)
       488340.14   3616298.03       99.79116  (10120220)                488390.14
3616298.03      102.02825  (10120220)
       488440.14   3616298.03       95.89462  (10120220)                488490.14
3616298.03       88.60631  (10120220)
       488540.14   3616298.03       81.14164  (10120220)                488590.14
3616298.03       73.68928  (10120220)
       487690.14   3616348.03      148.95812  (10051222)                487740.14
3616348.03      147.47215  (10051222)
       487790.14   3616348.03      144.65259  (10051222)                487840.14
3616348.03      140.14080  (10051222)
       487890.14   3616348.03      134.26299  (10051222)                487940.14
3616348.03      127.09215  (10051222)
       487990.14   3616348.03      122.10772  (10120220)                488040.14
3616348.03      121.30471  (10120220)
       488090.14   3616348.03      119.53956  (10120220)                488140.14
3616348.03      127.98033  (10120220)
       488190.14   3616348.03      123.92236  (10120220)                488240.14
3616348.03      116.81937  (10120220)
       488290.14   3616348.03      107.94064  (10120220)                488340.14
3616348.03       99.76285  (10120220)
       488390.14   3616348.03       91.26776  (10120220)                488440.14
3616348.03       82.70458  (10120220)
       488490.14   3616348.03       74.29083  (10120220)                488540.14
3616348.03       66.20344  (10120220)
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                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONSTRUC ***
                                 INCLUDING SOURCE(S):   VOL1   , VOL2
 , VOL3   , VOL5   , VOL6   ,
                 VOL7   , VOL8   , VOL9   , VOL10   , VOL11
 , VOL12   , VOL13   , VOL14   ,
                 VOL15   , VOL16   , VOL17   , VOL18   , VOL19
 , VOL20   , VOL21   , VOL22   ,
                 VOL23   , VOL24   , VOL25   , VOL26   , VOL27
 , VOL28   , VOL29   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
       487890.14   3616398.03   137.90944 (10120220)   487940.14
 3616398.03   135.85705 (10120220)
       487990.14   3616398.03   132.90450 (10120220)   488040.14
 3616398.03   128.90196 (10120220)
       488090.14   3616398.03   123.72819 (10120220)   488140.14
 3616398.03   122.69213 (10120220)
       488190.14   3616398.03   114.15687 (10120220)   488240.14
 3616398.03   103.96123 (10120220)
       488290.14   3616398.03   93.95453 (10120220)   488340.14
 3616398.03   84.08325 (10120220)
       488390.14   3616398.03   74.54263 (10120220)   488440.14
 3616398.03   65.53425 (10120220)
       488490.14   3616398.03   58.46595 (10051221)   488540.14
 3616398.03   57.13984 (10051221)
       488590.14   3616398.03   55.60948 (10051221)   487590.14

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3616448.03      190.69136  (10051222)
       487640.14   3616448.03      179.75191  (10051222)                487690.14
3616448.03      169.77185  (10051222)
       487740.14   3616448.03      159.56025  (10051222)                487790.14
3616448.03      156.37782  (10120220)
       487840.14   3616448.03      152.75590  (10120220)                487890.14
3616448.03      148.40182  (10120220)
       487940.14   3616448.03      142.96785  (10120220)                487990.14
3616448.03      136.16533  (10120220)
       488040.14   3616448.03      127.94721  (10120220)                488090.14
3616448.03      118.52141  (10120220)
       488140.14   3616448.03      108.49051  (10120220)                488190.14
3616448.03       95.95937  (10120220)
       488240.14   3616448.03       84.72466  (10120220)                488290.14
3616448.03       73.08507  (10120220)
       488340.14   3616448.03       66.13076  (10051221)                488390.14
3616448.03       63.48462  (10051221)
       488440.14   3616448.03       61.29709  (10051221)                488490.14
3616448.03       58.93042  (10051221)
       488540.14   3616448.03       56.42477  (10051221)                488590.14
3616448.03       54.16541  (10051221)
       487540.14   3616498.03      213.07861  (10051222)                487590.14
3616498.03      198.48347  (10051222)
       487640.14   3616498.03      184.18437  (10120220)                487690.14
3616498.03      178.59325  (10120220)
       487740.14   3616498.03      172.90061  (10120220)                487790.14
3616498.03      166.90251  (10120220)
       487840.14   3616498.03      159.85827  (10120220)                487890.14
3616498.03      151.07904  (10120220)
       487940.14   3616498.03      140.39014  (10120220)                487990.14
3616498.03      128.15002  (10120220)
       488040.14   3616498.03      115.01118  (10120220)                488090.14
3616498.03      100.30821  (10120220)
       488140.14   3616498.03       85.99116  (10120220)                488190.14
3616498.03       76.48050  (10082222)
       488240.14   3616498.03       71.32445  (10051221)                488290.14
3616498.03       68.16038  (10051221)
       488340.14   3616498.03       64.88221  (10051221)                488390.14
3616498.03       61.43505  (10051221)
       488440.14   3616498.03       57.88241  (10051221)                488490.14
3616498.03       54.25683  (10051221)
       488540.14   3616498.03       50.91728  (10051221)                488590.14
3616498.03       47.50959  (10051221)
       484613.02   3614429.89       12.64865  (10102808)                484663.02
3614429.89       13.10297  (10102808)
       484713.02   3614429.89       13.46375  (10102808)                484763.02
3614429.89       13.73557  (10102808)
       484813.02   3614429.89       13.90880  (10102808)                484863.02
3614429.89       13.97525  (10102808)
       484913.02   3614429.89       13.71783  (10102808)                484963.02
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 3614429.89       13.50851  (10102808)
        484563.02   3614479.89       11.68796  (10102808)                484613.02
 3614479.89       12.27053  (10102808)
        484663.02   3614479.89       12.79073  (10102808)                484713.02
 3614479.89       13.24290  (10102808)
        484763.02   3614479.89       13.61521  (10102808)                484813.02
 3614479.89       13.89649  (10102808)
        484863.02   3614479.89       14.07665  (10102808)                484913.02
 3614479.89       13.98251  (10102808)
        484963.02   3614479.89       13.83626  (10102808)                484513.02
 3614529.89       10.48689  (10102808)
        484563.02   3614529.89       11.15733  (10102808)                484613.02
 3614529.89       11.79273  (10102808)
        484663.02   3614529.89       12.38419  (10102808)                484713.02
 3614529.89       12.91912  (10102808)
🡅 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE 190
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  CONSTRUC ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        484763.02   3614529.89       13.38491  (10102808)                484813.02
 3614529.89       13.76924  (10102808)
        484863.02   3614529.89       14.06047  (10102808)                484913.02
 3614529.89       14.08788  (10102808)
        484963.02   3614529.89       14.05623  (10102808)                484463.02
 3614579.89        9.75233  (10101107)
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       484513.02   3614579.89        9.85462  (10102808)               484563.02
3614579.89       10.55707  (10102808)
       484613.02   3614579.89       11.24008  (10102808)               484663.02
3614579.89       11.89159  (10102808)
       484713.02   3614579.89       12.49891  (10102808)               484763.02
3614579.89       13.04905  (10102808)
       484813.02   3614579.89       13.52896  (10102808)               484863.02
3614579.89       13.92584  (10102808)
       484913.02   3614579.89       14.12801  (10102808)               484963.02
3614579.89       14.16134  (10102808)
       484413.02   3614629.89        9.71041  (10101107)               484463.02
3614629.89        9.82143  (10101107)
       484513.02   3614629.89        9.96782  (10101107)               484563.02
3614629.89       10.11674  (10101107)
       484613.02   3614629.89       10.62364  (10102808)               484663.02
3614629.89       11.32299  (10102808)
       484713.02   3614629.89       11.99099  (10102808)               484763.02
3614629.89       12.61463  (10102808)
       484813.02   3614629.89       13.18047  (10102808)               484863.02
3614629.89       13.67502  (10102808)
       484913.02   3614629.89       14.05999  (10102808)               484963.02
3614629.89       14.17012  (10102808)
       484413.02   3614679.89        9.79699  (10101107)               484463.02
3614679.89        9.93808  (10101107)
       484513.02   3614679.89       10.08883  (10101107)               484563.02
3614679.89       10.24229  (10101107)
       484613.02   3614679.89       10.39847  (10101107)               484663.02
3614679.89       10.68996  (10102808)
       484713.02   3614679.89       11.40598  (10102808)               484763.02
3614679.89       12.09088  (10102808)
       484813.02   3614679.89       12.73127  (10102808)               484863.02
3614679.89       13.31330  (10102808)
       484913.02   3614679.89       13.82303  (10102808)               484963.02
3614679.89       14.15700  (10102808)
       484363.02   3614729.89        9.75347  (10101107)               484413.02
3614729.89        9.90296  (10101107)
       484463.02   3614729.89       10.05530  (10101107)               484513.02
3614729.89       10.21052  (10101107)
       484563.02   3614729.89       10.36864  (10101107)               484613.02
3614729.89       10.52966  (10101107)
       484663.02   3614729.89       10.69360  (10101107)               484713.02
3614729.89       10.86047  (10101107)
       484763.02   3614729.89       11.48899  (10102808)               484813.02
3614729.89       12.19118  (10102808)
       484863.02   3614729.89       12.84875  (10102808)               484913.02
3614729.89       13.44748  (10102808)
       484963.02   3614729.89       13.89513  (10102808)               484313.02
3614779.89        9.88709  (10122309)
       484363.02   3614779.89        9.86260  (10101107)               484413.02
3614779.89       10.01629  (10101107)
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       484463.02   3614779.89       10.17301  (10101107)               484513.02
 3614779.89       10.33280  (10101107)
       484563.02   3614779.89       10.49568  (10101107)               484613.02
 3614779.89       10.66167  (10101107)
       484663.02   3614779.89       10.83079  (10101107)               484713.02
 3614779.89       11.00306  (10101107)
       484763.02   3614779.89       11.17847  (10101107)               484813.02
 3614779.89       11.57197  (10102808)
       484863.02   3614779.89       12.29181  (10102808)               484913.02
 3614779.89       12.96699  (10102808)
       484963.02   3614779.89       13.51835  (10102808)               484263.02
 3614829.89       11.84005  (10122309)
       484313.02   3614829.89       11.18849  (10122309)               484363.02
 3614829.89       10.51012  (10122309)
       484413.02   3614829.89       10.12992  (10101107)               484463.02
 3614829.89       10.29111  (10101107)
       484513.02   3614829.89       10.45556  (10101107)               484563.02
 3614829.89       10.62331  (10101107)
       484613.02   3614829.89       10.79439  (10101107)               484663.02
 3614829.89       10.96883  (10101107)
       484713.02   3614829.89       11.14664  (10101107)               484763.02
 3614829.89       11.32784  (10101107)
       484813.02   3614829.89       11.51244  (10101107)               484863.02
 3614829.89       11.70043  (10101107)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 191
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  CONSTRUC ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                           *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)        CONC     (YYMMDDHH)
 - - -
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 3614979.89       11.38683  (10101107)
       484713.02   3614979.89       11.58211  (10101107)               484763.02
 3614979.89       11.78158  (10101107)
       484813.02   3614979.89       11.98530  (10101107)               484863.02
 3614979.89       12.19329  (10101107)
       484913.02   3614979.89       12.40558  (10101107)               484963.02
 3614979.89       12.65259  (10101107)
       485013.02   3614979.89       13.09857  (10101107)               484113.02
 3615029.89       17.09172  (10122309)
       484163.02   3615029.89       16.93997  (10122309)               484213.02
 3615029.89       16.71777  (10122309)
       484263.02   3615029.89       16.42476  (10122309)               484313.02
 3615029.89       16.06144  (10122309)
       484363.02   3615029.89       15.62929  (10122309)               484413.02
 3615029.89       15.13075  (10122309)
       484463.02   3615029.89       14.56929  (10122309)               484513.02
 3615029.89       13.94945  (10122309)
       484563.02   3615029.89       13.27680  (10122309)               484613.02
 3615029.89       12.55793  (10122309)
       484663.02   3615029.89       11.80040  (10122309)               484713.02
 3615029.89       11.72839  (10101107)
       484763.02   3615029.89       11.93426  (10101107)               484813.02
 3615029.89       12.14468  (10101107)
       484863.02   3615029.89       12.35969  (10101107)               484913.02
 3615029.89       12.57935  (10101107)
       484963.02   3615029.89       12.80368  (10101107)               485013.02
 3615029.89       13.13020  (10101107)
       485063.02   3615029.89       13.54175  (10101107)               484113.02
 3615079.89       17.50856  (10122309)
       484163.02   3615079.89       17.48463  (10122309)               484213.02
 3615079.89       17.38978  (10122309)
       484263.02   3615079.89       17.22205  (10122309)               484313.02
 3615079.89       16.98028  (10122309)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 192
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  CONSTRUC ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
```

, VOL28 , VOL29 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484363.02	3615079.89	16.66415	(10122309)	484413.02	3615079.89	16.27432	(10122309)
484463.02	3615079.89	15.81246	(10122309)	484513.02	3615079.89	15.28131	(10122309)
484563.02	3615079.89	14.68475	(10122309)	484613.02	3615079.89	14.02779	(10122309)
484663.02	3615079.89	13.31663	(10122309)	484713.02	3615079.89	12.55853	(10122309)
484763.02	3615079.89	12.08738	(10101107)	484813.02	3615079.89	12.30466	(10101107)
484863.02	3615079.89	12.52689	(10101107)	484913.02	3615079.89	12.75411	(10101107)
484963.02	3615079.89	12.98639	(10101107)	485013.02	3615079.89	13.22376	(10101107)
485063.02	3615079.89	13.56079	(10101107)	485113.02	3615079.89	13.95253	(10101107)
484113.02	3615129.89	17.69319	(10122309)	484163.02	3615129.89	17.80006	(10122309)
484213.02	3615129.89	17.83845	(10122309)	484263.02	3615129.89	17.80496	(10122309)
484313.02	3615129.89	17.69681	(10122309)	484363.02	3615129.89	17.51197	(10122309)
484413.02	3615129.89	17.24925	(10122309)	484463.02	3615129.89	16.90840	(10122309)
484513.02	3615129.89	16.49019	(10122309)	484563.02	3615129.89	15.99652	(10122309)
484613.02	3615129.89	15.43047	(10122309)	484663.02	3615129.89	14.79635	(10122309)
484713.02	3615129.89	14.09973	(10122309)	484763.02	3615129.89	13.34748	(10122309)
484813.02	3615129.89	12.54767	(10122309)	484863.02	3615129.89	12.69468	(10101107)
484913.02	3615129.89	12.92966	(10101107)	484963.02	3615129.89	13.17010	(10101107)
485013.02	3615129.89	13.41605	(10101107)	485063.02	3615129.89	13.66755	(10101107)
485113.02	3615129.89	14.01353	(10101107)	485163.02	3615129.89	14.44682	(10101107)

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       484113.02   3615179.89       17.63607  (10122309)                484163.02
 3615179.89       17.87132  (10122309)
       484213.02   3615179.89       18.04332  (10122309)                484263.02
 3615179.89       18.14741  (10122309)
       484313.02   3615179.89       18.17941  (10122309)                484363.02
 3615179.89       18.13568  (10122309)
       484413.02   3615179.89       18.01332  (10122309)                484463.02
 3615179.89       17.81018  (10122309)
       484513.02   3615179.89       17.52506  (10122309)                484563.02
 3615179.89       17.15774  (10122309)
       484613.02   3615179.89       16.70913  (10122309)                484663.02
 3615179.89       16.18138  (10122309)
       484713.02   3615179.89       15.57791  (10122309)                484763.02
 3615179.89       14.90353  (10122309)
       484813.02   3615179.89       14.16445  (10122309)                484863.02
 3615179.89       13.36828  (10122309)
       484913.02   3615179.89       13.10580  (10101107)                484963.02
 3615179.89       13.35461  (10101107)
       485013.02   3615179.89       13.60937  (10101107)                485063.02
 3615179.89       13.87015  (10101107)
       485113.02   3615179.89       14.13701  (10101107)                485163.02
 3615179.89       14.51876  (10101107)
       485213.02   3615179.89       14.96805  (10101107)                484113.02
 3615229.89       17.33750  (10122309)
       484163.02   3615229.89       17.69353  (10122309)                484213.02
 3615229.89       17.99395  (10122309)
       484263.02   3615229.89       18.21830  (10122309)                484313.02
 3615229.89       18.38789  (10122309)
       484363.02   3615229.89       18.29384  (10122309)                484413.02
 3615229.89       18.31923  (10122309)
       484463.02   3615229.89       18.26715  (10122309)                484513.02
 3615229.89       18.13462  (10122309)
       484563.02   3615229.89       17.91952  (10122309)                484613.02
 3615229.89       17.65470  (10122309)
       484663.02   3615229.89       17.28093  (10122309)                484713.02
 3615229.89       16.89905  (10122309)
       484763.02   3615229.89       16.36082  (10122309)                484813.02
 3615229.89       15.72329  (10122309)
       484863.02   3615229.89       15.00565  (10122309)                484913.02
 3615229.89       14.22097  (10122309)
       484963.02   3615229.89       13.53967  (10101107)                485013.02
 3615229.89       13.80348  (10101107)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 193
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONSTRUC ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL5 , VOL6 ,
VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 ,
VOL15 , VOL16 , VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 ,
VOL23 , VOL24 , VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
485063.02	3615229.89	14.07380	(10101107)	485113.02	3615229.89	14.35072	(10101107)
485163.02	3615229.89	14.63430	(10101107)	485213.02	3615229.89	14.92458	(10101107)
485263.02	3615229.89	15.48541	(10101107)	484113.02	3615279.89	16.80770	(10122309)
484163.02	3615279.89	17.27216	(10122309)	484213.02	3615279.89	17.58187	(10122309)
484263.02	3615279.89	17.72026	(10122309)	484313.02	3615279.89	17.95506	(10122309)
484613.02	3615279.89	18.31161	(10122309)	484663.02	3615279.89	18.28443	(10122309)
484713.02	3615279.89	17.95794	(10122309)	484763.02	3615279.89	17.60870	(10122309)
484813.02	3615279.89	17.15685	(10122309)	484863.02	3615279.89	16.55315	(10122309)
484913.02	3615279.89	15.86620	(10122309)	484963.02	3615279.89	15.10196	(10122309)
485013.02	3615279.89	14.26819	(10122309)	485063.02	3615279.89	14.27821	(10101107)
485113.02	3615279.89	14.56547	(10101107)	485163.02	3615279.89	14.85998	(10101107)
485213.02	3615279.89	15.16181	(10101107)	485263.02	3615279.89	15.48000	(10101107)
485313.02	3615279.89	16.06995	(10101107)	484113.02	3615329.89	16.03049	(10122309)
484163.02	3615329.89	16.39447	(10122309)	484213.02	3615329.89	16.74502	(10122309)
484663.02	3615329.89	18.82024	(10122309)	484713.02			

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3615329.89       18.85311  (10122309)
       484763.02   3615329.89       18.61099  (10122309)                484813.02
3615329.89       18.39847  (10122309)
       484863.02   3615329.89       17.93989  (10122309)                484913.02
3615329.89       17.38606  (10122309)
       484963.02   3615329.89       16.73991  (10122309)                485013.02
3615329.89       16.00619  (10122309)
       485063.02   3615329.89       15.19158  (10122309)                485113.02
3615329.89       14.78097  (10101107)
       485163.02   3615329.89       15.08672  (10101107)                485213.02
3615329.89       15.40044  (10101107)
       485263.02   3615329.89       15.72224  (10101107)                485313.02
3615329.89       16.05219  (10101107)
       485363.02   3615329.89       16.53983  (10101107)                484113.02
3615379.89       14.89692  (10122309)
       484163.02   3615379.89       15.45652  (10122309)                484713.02
3615379.89       19.28735  (10122309)
       484763.02   3615379.89       19.40199  (10122309)                484813.02
3615379.89       19.25143  (10122309)
       484863.02   3615379.89       19.09472  (10122309)                484913.02
3615379.89       18.70721  (10122309)
       484963.02   3615379.89       18.21368  (10122309)                485013.02
3615379.89       17.61925  (10122309)
       485063.02   3615379.89       16.92718  (10122309)                485113.02
3615379.89       16.14273  (10122309)
       485163.02   3615379.89       15.33997  (10012006)                485213.02
3615379.89       15.64012  (10101107)
       485263.02   3615379.89       15.97489  (10101107)                485313.02
3615379.89       16.31859  (10101107)
       485363.02   3615379.89       16.67131  (10101107)                485413.02
3615379.89       17.06859  (10101107)
       484763.02   3615429.89       19.69446  (10122309)                484813.02
3615429.89       19.91160  (10122309)
       484863.02   3615429.89       19.83924  (10122309)                484913.02
3615429.89       19.76295  (10122309)
       484963.02   3615429.89       19.44878  (10122309)                485013.02
3615429.89       19.02631  (10122309)
       485063.02   3615429.89       18.49517  (10122309)                485113.02
3615429.89       17.85683  (10122309)
       485163.02   3615429.89       17.11485  (10122309)                485213.02
3615429.89       16.30746  (10012006)
       485263.02   3615429.89       16.22855  (10101107)                485313.02
3615429.89       16.58644  (10101107)
       485363.02   3615429.89       16.95423  (10101107)                485413.02
3615429.89       17.33204  (10101107)
       485463.02   3615429.89       17.77215  (10101107)                485513.02
3615429.89       18.50230  (10101107)
       484813.02   3615479.89       20.03123  (10122309)                484863.02
3615479.89       20.25054  (10122309)
       484913.02   3615479.89       20.46368  (10122309)                484963.02
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONSTRUC ***
                                    INCLUDING SOURCE(S):   VOL1   , VOL2
 , VOL3   , VOL5   , VOL6   ,
               VOL7   , VOL8   , VOL9   , VOL10   , VOL11
 , VOL12   , VOL13   , VOL14   ,
               VOL15   , VOL16   , VOL17   , VOL18   , VOL19
 , VOL20   , VOL21   , VOL22   ,
               VOL23   , VOL24   , VOL25   , VOL26   , VOL27
 , VOL28   , VOL29   , . . .   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                    ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

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       485263.02   3615529.89       19.08536  (10122309)               485313.02
3615529.89       18.35611  (10012006)
       485363.02   3615529.89       18.21074  (10012006)               485413.02
3615529.89       17.94684  (10012006)
       485463.02   3615529.89       18.35910  (10101107)               485513.02
3615529.89       19.21118  (10101107)
       484913.02   3615579.89       20.42511  (10122309)               484963.02
3615579.89       20.89889  (10122309)
       485013.02   3615579.89       21.22553  (10122309)               485063.02
3615579.89       21.30491  (10122309)
       485113.02   3615579.89       21.40368  (10122309)               485163.02
3615579.89       21.25782  (10122309)
       485213.02   3615579.89       20.98840  (10122309)               485263.02
3615579.89       20.59034  (10122309)
       485313.02   3615579.89       20.06019  (10122309)               485363.02
3615579.89       19.42826  (10012006)
       485413.02   3615579.89       19.37238  (10012006)               485463.02
3615579.89       19.19015  (10012006)
       484963.02   3615629.89       20.54122  (10122309)               485013.02
3615629.89       21.10835  (10122309)
       485063.02   3615629.89       21.49483  (10122309)               485113.02
3615629.89       21.67861  (10122309)
       485163.02   3615629.89       21.83615  (10122309)               485213.02
3615629.89       21.88835  (10122309)
       485263.02   3615629.89       21.72905  (10122309)               485313.02
3615629.89       21.43788  (10122309)
       485363.02   3615629.89       21.00865  (10122309)               485413.02
3615629.89       20.52521  (10012006)
       485013.02   3615679.89       20.55919  (10122309)               485063.02
3615679.89       21.22592  (10122309)
       485113.02   3615679.89       21.70939  (10122309)               485163.02
3615679.89       22.00110  (10122309)
       485213.02   3615679.89       22.26438  (10122309)               485263.02
3615679.89       22.43803  (10122309)
       485313.02   3615679.89       22.39850  (10122309)               485363.02
3615679.89       22.12344  (10122309)
       485413.02   3615679.89       21.66516  (10122309)               485063.02
3615729.89       20.51054  (10122309)
       485113.02   3615729.89       21.12456  (10122309)               485163.02
3615729.89       21.79533  (10122309)
       485213.02   3615729.89       22.22385  (10122309)               485263.02
3615729.89       22.56541  (10122309)
       485313.02   3615729.89       22.76631  (10122309)               485363.02
3615729.89       22.51210  (10122309)
       485113.02   3615779.89       20.33497  (10122309)               485163.02
3615779.89       21.03754  (10122309)
       485213.02   3615779.89       21.73630  (10122309)               485263.02
3615779.89       22.25043  (10122309)
       485313.02   3615779.89       22.46115  (10122309)               485163.02
3615829.89       20.07622  (10122309)
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONSTRUC ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL5 , VOL6 ,
VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 ,
VOL15 , VOL16 , VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 ,
VOL23 , VOL24 , VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
487132.24	3618053.22	32.95350	(10120309)	487182.13	3618053.22	32.52323	(10120309)
487232.02	3618053.22	31.53448	(10120309)	487281.91	3618053.22	29.75125	(10120309)
486424.80	3617998.65	85.47268	(10121318)	486474.69	3617998.65	73.70246	(10102819)
486524.58	3617998.65	68.90023	(10092724)	486574.47	3617998.65	60.67131	(10092724)
486624.36	3617998.65	52.93076	(10092724)	486674.25	3617998.65	47.01431	(10092724)
486724.14	3617998.65	37.96365	(10092724)	486774.03			

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3617998.65       31.31561  (10011717)
       486823.92   3617998.65       29.57133  (10011717)                 486873.81
3617998.65       27.25083  (10120309)
       486923.70   3617998.65       30.01167  (10120309)                 486973.59
3617998.65       31.78572  (10120309)
       487023.48   3617998.65       32.74413  (10120309)                 487082.35
3618103.22       32.77247  (10120309)
       487132.24   3618103.22       32.75975  (10120309)                 487182.13
3618103.22       32.28866  (10120309)
       486374.91   3618048.65       86.81202  (10121318)                 486424.80
3618048.65       76.56535  (10121318)
       486474.69   3618048.65       68.44243  (10102819)                 486524.58
3618048.65       64.86646  (10092724)
       486574.47   3618048.65       61.14243  (10092724)                 486624.36
3618048.65       55.92994  (10092724)
       486674.25   3618048.65       49.69509  (10092724)                 486724.14
3618048.65       37.82229  (10092724)
       486774.03   3618048.65       30.08110  (10011717)                 486823.92
3618048.65       25.53484  (10011717)
       486873.81   3618048.65       26.96220  (10120309)                 486923.70
3618048.65       29.68234  (10120309)
       486973.59   3618048.65       31.49755  (10120309)                 487023.48
3618048.65       32.50236  (10120309)
       487082.35   3618153.22       32.57664  (10120309)                 487132.24
3618153.22       32.54559  (10120309)
       486325.02   3618098.65       86.21236  (10121318)                 486374.91
3618098.65       78.04184  (10121318)
       486424.80   3618098.65       67.54587  (10102819)                 486474.69
3618098.65       63.02414  (10092724)
       486524.58   3618098.65       60.98374  (10092724)                 486574.47
3618098.65       56.46365  (10092724)
       486624.36   3618098.65       50.44807  (10092724)                 486674.25
3618098.65       45.59839  (10092724)
       486724.14   3618098.65       40.68234  (10092724)                 486774.03
3618098.65       29.91671  (10011717)
       486823.92   3618098.65       25.46323  (10011717)                 486873.81
3618098.65       26.68626  (10120309)
       486923.70   3618098.65       29.36193  (10120309)                 486973.59
3618098.65       31.19786  (10120309)
       487023.48   3618098.65       32.26341  (10120309)                 487082.35
3618203.22       32.35737  (10120309)
       486275.13   3618148.65       82.57899  (10121318)                 486325.02
3618148.65       78.83949  (10121318)
       486374.91   3618148.65       68.84820  (10121318)                 486424.80
3618148.65       62.05089  (10102819)
       486474.69   3618148.65       59.69176  (10092724)                 486524.58
3618148.65       57.28381  (10092724)
       486574.47   3618148.65       54.24646  (10092724)                 486624.36
3618148.65       52.40595  (10092724)
       486674.25   3618148.65       49.49880  (10092724)                 486724.14
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 3618148.65       43.62168  (10092724)
       486774.03   3618148.65       31.45522  (10011717)                486823.92
 3618148.65       27.05250  (10011717)
       486873.81   3618148.65       26.39379  (10120309)                486923.70
 3618148.65       29.05512  (10120309)
       486973.59   3618148.65       30.90594  (10120309)                487023.48
 3618148.65       32.00899  (10120309)
       486225.24   3618198.65       85.27633  (10121318)                486275.13
 3618198.65       80.35530  (10121318)
       486325.02   3618198.65       67.33358  (10121318)                486374.91
 3618198.65       58.13248  (10121318)
       486424.80   3618198.65       54.76625  (10092724)                486474.69
 3618198.65       56.11994  (10092724)
       486524.58   3618198.65       54.84488  (10092724)                486574.47
 3618198.65       54.11183  (10092724)
       486624.36   3618198.65       51.54379  (10092724)                486674.25
 3618198.65       43.47886  (10092724)
       486724.14   3618198.65       43.78747  (10092724)                486774.03
 3618198.65       31.94013  (10011717)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 196
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  CONSTRUC ***
                                    INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
       486823.92   3618198.65       28.58775  (10011717)                486873.81
 3618198.65       26.12774  (10120309)
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       486923.70   3618198.65       28.74854  (10120309)                 486973.59
3618198.65       30.60118  (10120309)
       487023.48   3618198.65       31.75456  (10120309)                 486175.35
3618248.65       82.51234  (10121318)
       486225.24   3618248.65       79.69694  (10121318)                 486275.13
3618248.65       68.34549  (10121318)
       486325.02   3618248.65       59.42112  (10121318)                 486374.91
3618248.65       53.29131  (10102819)
       486424.80   3618248.65       51.72955  (10092724)                 486474.69
3618248.65       54.45832  (10092724)
       486524.58   3618248.65       55.08379  (10092724)                 486574.47
3618248.65       53.74646  (10092724)
       486624.36   3618248.65       48.34042  (10092724)                 486674.25
3618248.65       42.75068  (10092724)
       486724.14   3618248.65       36.53626  (10092724)                 486774.03
3618248.65       31.91470  (10011717)
       486823.92   3618248.65       28.63566  (10011717)                 486873.81
3618248.65       26.46054  (10011717)
       486923.70   3618248.65       28.44683  (10120309)                 486973.59
3618248.65       30.30166  (10120309)
       487023.48   3618248.65       31.47936  (10120309)                 486125.46
3618298.65       86.74834  (10121318)
       486175.35   3618298.65       82.43004  (10121318)                 486225.24
3618298.65       71.99917  (10121318)
       486275.13   3618298.65       61.46550  (10121318)                 486325.02
3618298.65       51.95655  (10121318)
       486374.91   3618298.65       48.66667  (10092724)                 486424.80
3618298.65       53.05100  (10092724)
       486474.69   3618298.65       55.15326  (10092724)                 486524.58
3618298.65       55.03863  (10092724)
       486574.47   3618298.65       53.17884  (10092724)                 486624.36
3618298.65       48.69956  (10092724)
       486674.25   3618298.65       43.46551  (10092724)                 486724.14
3618298.65       34.71947  (10092724)
       486774.03   3618298.65       31.49606  (10011717)                 486823.92
3618298.65       29.10991  (10011717)
       486873.81   3618298.65       26.29913  (10011717)                 486923.70
3618298.65       28.17062  (10120309)
       486125.46   3618348.65       87.74327  (10121318)                 486175.35
3618348.65       81.76585  (10121318)
       486225.24   3618348.65       63.85444  (10121318)                 486275.13
3618348.65       54.88533  (10121318)
       486325.02   3618348.65       47.91946  (10102819)                 486374.91
3618348.65       50.68340  (10092724)
       486424.80   3618348.65       54.23905  (10092724)                 486474.69
3618348.65       55.52070  (10092724)
       486524.58   3618348.65       54.74352  (10092724)                 486574.47
3618348.65       52.42978  (10092724)
       486624.36   3618348.65       49.12348  (10092724)                 486674.25
3618348.65       40.80844  (10092724)
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       486724.14   3618348.65       33.83374  (10092724)               486774.03
 3618348.65       31.27466  (10011717)
       486823.92   3618348.65       29.63413  (10011717)               486873.81
 3618348.65       26.02137  (10011717)
       486125.46   3618398.65       87.59680  (10121318)               486175.35
 3618398.65       75.06480  (10121318)
       486225.24   3618398.65       53.40720  (10093002)               486275.13
 3618398.65       47.44235  (10121318)
       486325.02   3618398.65       49.10651  (10102819)               486374.91
 3618398.65       52.35330  (10092724)
       486424.80   3618398.65       55.07663  (10092724)               486474.69
 3618398.65       55.59218  (10092724)
       486524.58   3618398.65       54.22763  (10092724)               486574.47
 3618398.65       51.51345  (10092724)
       486624.36   3618398.65       47.91222  (10092724)               486674.25
 3618398.65       42.14080  (10092724)
       486724.14   3618398.65       35.28355  (10043023)               486774.03
 3618398.65       31.02385  (10011717)
       486823.92   3618398.65       29.32411  (10011717)               486125.46
 3618448.65       83.45028  (10121318)
       486175.35   3618448.65       67.09345  (10121318)               486225.24
 3618448.65       47.24864  (10093002)
       486275.13   3618448.65       45.58615  (10102819)               486325.02
 3618448.65       53.94080  (10102819)
       486374.91   3618448.65       58.79443  (10092724)               486424.80
 3618448.65       60.81692  (10092724)
       486474.69   3618448.65       59.04632  (10092724)               486524.58
 3618448.65       53.51447  (10092724)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 197
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  CONSTRUC ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2
 , VOL3        , VOL5        , VOL6        ,
                 VOL7        , VOL8        , VOL9        , VOL10       , VOL11
 , VOL12       , VOL13       , VOL14       ,
                 VOL15       , VOL16       , VOL17       , VOL18       , VOL19
 , VOL20       , VOL21       , VOL22       ,
                 VOL23       , VOL24       , VOL25       , VOL26       , VOL27
 , VOL28       , VOL29       ,  . . .      ,

                                           *** DISCRETE CARTESIAN RECEPTOR POINTS
***
```

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
486574.47	3618448.65	50.43914	(10092724)	486624.36	3618448.65	46.54895	(10092724)
486674.25	3618448.65	41.98835	(10092724)	486724.14	3618448.65	36.45708	(10121022)
486774.03	3618448.65	35.07119	(10121022)	486125.46	3618498.65	79.40377	(10121318)
486175.35	3618498.65	46.89546	(10093002)	486225.24	3618498.65	35.11702	(10093002)
486275.13	3618498.65	57.51360	(10102819)	486325.02	3618498.65	68.56492	(10102819)
486374.91	3618498.65	64.80337	(10092724)	486424.80	3618498.65	61.93507	(10092724)
486474.69	3618498.65	59.89881	(10092724)	486524.58	3618498.65	56.50821	(10092724)
486574.47	3618498.65	49.61183	(10092724)	486624.36	3618498.65	45.03751	(10092724)
486674.25	3618498.65	41.35264	(10021621)	486125.46	3618548.65	76.96483	(10121318)
486175.35	3618548.65	36.99731	(10093002)	486225.24	3618548.65	55.94048	(10102819)
486275.13	3618548.65	74.12364	(10102819)	486325.02	3618548.65	74.09733	(10102819)
486374.91	3618548.65	68.42695	(10092724)	486424.80	3618548.65	65.23380	(10092724)
486474.69	3618548.65	59.02799	(10092724)	486524.58	3618548.65	55.96193	(10092724)
486574.47	3618548.65	49.33344	(10092724)	486624.36	3618548.65	43.38535	(10092724)
485782.13	3617697.10	34.25418	(10120219)	486117.99	3618113.14	83.82974	(10011620)
487046.44	3616930.35	166.14585	(10022021)	487001.92	3616865.64	181.09201	(10101007)
487027.85	3616812.50	191.45116	(10101007)	487059.32	3616825.09	194.41972	(10101007)
487097.29	3616749.11	204.75369	(10020323)	487391.33	3616829.05	240.16298	(10022021)
487479.92	3616731.27	193.79224	(10120923)	487502.82	3616688.63	216.59046	(10120220)
487412.35	3616681.88	215.94722	(10120923)	487364.99	3616592.30	254.79749	(10051222)
487332.84	3616532.76	231.79944	(10051222)	487293.41	3616472.19	218.67427	(10121005)
487247.98	3616421.76	230.92498	(10012722)	487197.40			

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
487520.59	3616550.48	225.43526	(10120220)	487570.59	3616550.48	213.46579	(10120220)
487620.59	3616550.48	202.03906	(10120220)	487670.59	3616550.48	193.88688	(10120220)

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       487720.59   3616550.48      185.58490  (10120220)                487770.59
3616550.48      175.17428  (10120220)
       487820.59   3616550.48      161.66425  (10120220)                487870.59
3616550.48      145.56477  (10120220)
       487920.59   3616550.48      128.16230  (10120220)                487970.59
3616550.48      110.77099  (10120220)
       488020.59   3616550.48       94.36804  (10120220)                488070.59
3616550.48       81.38052  (10051221)
       488120.59   3616550.48       77.46255  (10051221)                488170.59
3616550.48       72.58076  (10051221)
       488220.59   3616550.48       67.92985  (10051221)                488270.59
3616550.48       63.72205  (10051221)
       488320.59   3616550.48       58.60446  (10051221)                488370.59
3616550.48       55.77187  (10082402)
       488420.59   3616550.48       53.68920  (10082402)                488470.59
3616550.48       51.74503  (10082402)
       488520.59   3616550.48       49.92519  (10082402)                488570.59
3616550.48       48.21747  (10082402)
       488620.59   3616550.48       46.61128  (10082402)                487520.59
3616600.48      236.86696  (10120220)
       487570.59   3616600.48      226.20471  (10120220)                487620.59
3616600.48      215.97320  (10120220)
       487670.59   3616600.48      203.44484  (10120220)                487720.59
3616600.48      184.92692  (10120220)
       487770.59   3616600.48      161.97158  (10120220)                487820.59
3616600.48      137.75226  (10120220)
       487870.59   3616600.48      114.73162  (10120220)                487920.59
3616600.48       95.73972  (10051221)
       487970.59   3616600.48       88.55331  (10051221)                488020.59
3616600.48       81.36534  (10051221)
       488070.59   3616600.48       74.56376  (10051221)                488120.59
3616600.48       68.10763  (10051221)
       488170.59   3616600.48       62.31575  (10091620)                488220.59
3616600.48       68.74076  (10122505)
       488270.59   3616600.48       54.20568  (10091620)                488320.59
3616600.48       62.27319  (10122505)
       488370.59   3616600.48       59.42185  (10122505)                488420.59
3616600.48       56.78830  (10122505)
       488470.59   3616600.48       54.34947  (10122505)                488520.59
3616600.48       52.08534  (10122505)
       488570.59   3616600.48       49.97849  (10122505)                488620.59
3616600.48       48.01367  (10122505)
       487970.59   3616650.48       72.56126  (10051221)                488020.59
3616650.48       64.33568  (10051221)
       488070.59   3616650.48       57.23403  (10051221)                488120.59
3616650.48       50.98237  (10051221)
       488170.59   3616650.48       62.20510  (10011218)                488220.59
3616650.48       61.41450  (10011218)
       488270.59   3616650.48       42.23563  (10011218)                488320.59
3616650.48       56.90374  (10011218)
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       488370.59   3616650.48       65.24662  (10122505)                488420.59
 3616650.48       69.14762  (10122505)
       488470.59   3616650.48       59.90246  (10122505)                488520.59
 3616650.48       57.49712  (10122505)
       488570.59   3616650.48       55.24756  (10122505)                488620.59
 3616650.48       53.13977  (10122505)
       487520.59   3616700.48      230.90125  (10120220)                487570.59
 3616700.48      184.41191  (10120220)
       487620.59   3616700.48      142.37178  (10120220)                487670.59
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       487720.59   3616700.48      100.27953  (10051221)                487770.59
 3616700.48       89.36349  (10011218)
       487820.59   3616700.48       81.30501  (10011218)                487870.59
 3616700.48       74.53486  (10011218)
       487920.59   3616700.48       68.76088  (10011218)                487970.59
 3616700.48       63.85664  (10011218)
       488020.59   3616700.48       59.25914  (10011218)                488070.59
 3616700.48       55.44943  (10011218)
       488120.59   3616700.48       52.07187  (10011218)                488170.59
 3616700.48       49.05850  (10011218)
       488220.59   3616700.48       46.35525  (10011218)                488270.59
 3616700.48       43.91847  (10011218)
       488320.59   3616700.48       56.46580  (10011218)                488370.59
 3616700.48       65.55977  (10122505)
       488420.59   3616700.48       63.40878  (10122505)                488470.59
 3616700.48       61.26224  (10122505)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE 199
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_2.5   IN MICROGRAMS/M**3
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
488520.59	3616700.48	62.08404	(10122505)	488570.59	3616700.48	59.88225	(10122505)
488620.59	3616700.48	54.77612	(10122505)	487470.59	3616750.48	297.61824	(10022022)
487520.59	3616750.48	267.74049	(10101723)	487570.59	3616750.48	157.95947	(10101723)
487620.59	3616750.48	118.98569	(10101723)	487670.59	3616750.48	104.45494	(10011218)
487720.59	3616750.48	93.39418	(10011218)	487770.59	3616750.48	84.43309	(10011218)
487820.59	3616750.48	77.03516	(10011218)	487870.59	3616750.48	70.82016	(10011218)
487920.59	3616750.48	65.51908	(10011218)	487970.59	3616750.48	60.92571	(10011218)
488020.59	3616750.48	56.90835	(10011218)	488070.59	3616750.48	53.38516	(10011218)
488120.59	3616750.48	50.25487	(10011218)	488170.59	3616750.48	47.45543	(10011218)
488220.59	3616750.48	44.93757	(10011218)	488270.59	3616750.48	42.66167	(10011218)
488320.59	3616750.48	52.98533	(10011218)	488370.59	3616750.48	61.94780	(10122505)
488420.59	3616750.48	60.24698	(10122505)	488470.59	3616750.48	58.58830	(10122505)
488520.59	3616750.48	60.09014	(10122505)	488570.59	3616750.48	58.24745	(10122505)
488620.59	3616750.48	53.09653	(10122505)	487120.59	3616800.48	216.14579	(10060706)
487170.59	3616800.48	218.76192	(10041721)	487220.59	3616800.48	257.90166	(10031321)
487270.59	3616800.48	247.60726	(10022021)	487420.59	3616800.48	274.86693	(10022021)
487470.59	3616800.48	294.37520	(10022022)	487520.59	3616800.48	301.99821	(10022022)
487570.59	3616800.48	278.27155	(10022022)	487620.59	3616800.48	170.28412	(10101723)
487670.59	3616800.48	131.24117	(10101723)	487720.59	3616800.48	99.20613	(10101723)
487770.59	3616800.48	76.04008	(10021518)	487820.59	3616800.48	69.77843	(10021518)
487870.59	3616800.48	64.30774	(10021518)	487920.59	3616800.48	59.50012	(10021518)
487970.59	3616800.48	55.21488	(10021518)	488020.59	3616800.48	63.17952	(10021518)
488070.59	3616800.48	61.76346	(10021518)	488120.59			

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 3616800.48       56.87393  (10021518)
       488170.59   3616800.48       54.14379  (10021518)                488220.59
 3616800.48       51.61868  (10021518)
       488270.59   3616800.48       38.79997  (10011218)                488320.59
 3616800.48       57.67161  (10122505)
       488370.59   3616800.48       65.56898  (10122505)                488420.59
 3616800.48       63.82140  (10122505)
       488470.59   3616800.48       62.13924  (10122505)                488520.59
 3616800.48       60.51831  (10122505)
       488570.59   3616800.48       53.38825  (10122505)                488620.59
 3616800.48       57.32877  (10122505)
       486470.59   3616850.48       91.39027  (10020323)                486520.59
 3616850.48      101.40809  (10020323)
       487020.59   3616850.48      225.73671  (10031922)                487070.59
 3616850.48      251.59910  (10092521)
       487120.59   3616850.48      251.47140  (10071501)                487170.59
 3616850.48      245.21298  (10093005)
       487220.59   3616850.48      243.48446  (10100223)                487270.59
 3616850.48      236.13371  (10031321)
       487320.59   3616850.48      230.25182  (10022021)                487370.59
 3616850.48      251.66882  (10022021)
       487420.59   3616850.48      290.07756  (10100223)                487470.59
 3616850.48      294.26106  (10031321)
       487520.59   3616850.48      289.30939  (10031321)                487570.59
 3616850.48      289.47800  (10022022)
       487620.59   3616850.48      260.19150  (10022022)                487670.59
 3616850.48      173.83073  (10022022)
       487720.59   3616850.48      140.76765  (10101723)                487770.59
 3616850.48      109.29561  (10101723)
       487820.59   3616850.48       83.55333  (10101723)                487870.59
 3616850.48       64.67310  (10101723)
       487920.59   3616850.48       70.97262  (10122221)                487970.59
 3616850.48       70.76414  (10122221)
       488020.59   3616850.48       65.89530  (10122221)                488070.59
 3616850.48       60.58605  (10122221)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 200
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
               HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
               HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
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 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        488120.59   3616850.48       55.08637  (10122221)               488170.59
 3616850.48       53.96044  (10021518)
        488220.59   3616850.48       63.31285  (10122222)               488270.59
 3616850.48       47.47479  (10021518)
        488320.59   3616850.48       72.72910  (10082401)               488370.59
 3616850.48       73.72200  (10082401)
        488420.59   3616850.48       71.65495  (10082401)               488470.59
 3616850.48       69.36190  (10082401)
        488520.59   3616850.48       64.61729  (10082401)               488570.59
 3616850.48       64.19348  (10082401)
        488620.59   3616850.48       46.16617  (10082401)               486370.59
 3616900.48       77.05723  (10020323)
        486420.59   3616900.48       83.50771  (10020323)               486470.59
 3616900.48       91.17368  (10020323)
        486520.59   3616900.48      100.55931  (10020323)               487070.59
 3616900.48      229.52032  (10092521)
        487120.59   3616900.48      234.08989  (10071503)               487170.59
 3616900.48      246.57278  (10092521)
        487220.59   3616900.48      250.21853  (10071504)               487270.59
 3616900.48      254.26724  (10071501)
        487320.59   3616900.48      219.13599  (10031321)               487370.59
 3616900.48      264.81546  (10093003)
        487420.59   3616900.48      281.13797  (10071502)               487470.59
 3616900.48      288.90907  (10100223)
        487520.59   3616900.48      293.30386  (10031321)               487570.59
 3616900.48      287.63869  (10031321)
        487620.59   3616900.48      258.79620  (10022022)               487670.59
 3616900.48      210.07176  (10022022)
        487720.59   3616900.48      179.56854  (10022022)               487770.59
 3616900.48      148.53825  (10101723)
        487820.59   3616900.48      161.99679  (10101723)               487870.59
 3616900.48      120.07985  (10101723)
        487920.59   3616900.48       91.63467  (10080805)               487970.59
 3616900.48       68.47443  (10080805)
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 3616900.48       62.71169  (10122221)
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       488120.59   3616900.48       64.18239  (10122221)               488170.59
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       488220.59   3616900.48       81.53359  (10122222)               488270.59
 3616900.48       55.99705  (10122222)
       488320.59   3616900.48       42.25211  (10021518)               488370.59
 3616900.48       70.18827  (10082401)
       488420.59   3616900.48       68.84838  (10082401)               488470.59
 3616900.48       66.72821  (10082401)
       488520.59   3616900.48       58.33166  (10082401)               488570.59
 3616900.48       49.02756  (10082401)
       488620.59   3616900.48       37.41242  (10021518)               486170.59
 3616950.48       58.10928  (10020323)
       486220.59   3616950.48       61.63947  (10020323)               486370.59
 3616950.48       75.38678  (10020323)
       486420.59   3616950.48       81.88870  (10020323)               486470.59
 3616950.48       90.22126  (10020323)
       486520.59   3616950.48      101.54954  (10020323)               486570.59
 3616950.48      118.50711  (10020323)
       486720.59   3616950.48      143.84591  (10072501)               487020.59
 3616950.48      268.92891  (10100223)
       487070.59   3616950.48      239.33726  (10031321)               487120.59
 3616950.48      233.68569  (10021620)
       487170.59   3616950.48      241.70705  (10092521)               487220.59
 3616950.48      245.11778  (10071504)
       487270.59   3616950.48      244.73699  (10071503)               487320.59
 3616950.48      236.70729  (10100223)
       487370.59   3616950.48      264.81436  (10093005)               487420.59
 3616950.48      266.60844  (10093003)
       487470.59   3616950.48      289.54822  (10071502)               487520.59
 3616950.48      285.72306  (10100223)
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 3616950.48      237.84306  (10031321)
       487670.59   3616950.48      221.64406  (10022022)               487720.59
 3616950.48      253.85466  (10022022)
       487770.59   3616950.48      235.32325  (10022022)               487820.59
 3616950.48      211.24694  (10101723)
       487870.59   3616950.48      178.24110  (10101723)               487920.59
 3616950.48      136.74875  (10101723)
       487970.59   3616950.48      101.90303  (10080805)               488020.59
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       488070.59   3616950.48       73.34417  (10122221)               488120.59
 3616950.48       71.36410  (10122221)
       488170.59   3616950.48       68.69418  (10122221)               488220.59
 3616950.48      102.78262  (10122221)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                PAGE 201
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 ,
HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 ,
HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 ,
HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
488270.59	3616950.48	74.67541	(10122221)	488320.59	3616950.48	43.52494	(10122221)
488370.59	3616950.48	59.82482	(10122222)	488420.59	3616950.48	70.02369	(10122222)
488470.59	3616950.48	66.13720	(10122222)	488520.59	3616950.48	48.22585	(10122222)
488570.59	3616950.48	35.95551	(10020421)	488620.59	3616950.48	33.94551	(10021518)
486170.59	3617000.48	54.87348	(10020323)	486220.59	3617000.48	57.77350	(10020323)
486270.59	3617000.48	61.01692	(10020323)	486320.59	3617000.48	64.79251	(10020323)
486370.59	3617000.48	69.32684	(10020323)	486420.59	3617000.48	75.04092	(10020323)
486470.59	3617000.48	82.19680	(10020323)	486520.59	3617000.48	97.08886	(10120219)
486570.59	3617000.48	142.91574	(10120219)	486620.59	3617000.48	142.28157	(10120219)
486670.59	3617000.48	137.86200	(10120219)	486720.59	3617000.48	149.77962	(10121318)
486770.59	3617000.48	165.38982	(10121318)	486820.59	3617000.48	183.77945	(10121401)
486970.59	3617000.48	351.14875	(10093005)	487020.59	3617000.48	292.01219	(10071502)
487070.59	3617000.48	244.37352	(10100223)	487120.59	3617000.48	223.85956	(10031321)
487170.59	3617000.48	234.31417	(10092521)	487220.59			

3617000.48 236.78143 (10102919)
487270.59 3617000.48 237.01513 (10071503) 487320.59
3617000.48 243.92125 (10071501)
487370.59 3617000.48 252.62219 (10093005) 487420.59
3617000.48 263.01075 (10071501)
487470.59 3617000.48 274.29448 (10071502) 487520.59
3617000.48 272.57018 (10071502)
487570.59 3617000.48 234.70805 (10100223) 487620.59
3617000.48 246.14755 (10031321)
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487770.59 3617000.48 259.13170 (10022022) 487820.59
3617000.48 236.80278 (10022022)
487870.59 3617000.48 215.28787 (10101723) 487920.59
3617000.48 186.54534 (10101723)
487970.59 3617000.48 149.92876 (10101723) 488020.59
3617000.48 113.06006 (10101723)
488070.59 3617000.48 87.36137 (10080805) 488120.59
3617000.48 66.68184 (10122221)
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3617000.48 87.59743 (10122221)
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3617000.48 75.51702 (10122221)
488370.59 3617000.48 48.49493 (10122221) 488420.59
3617000.48 66.07119 (10122222)
488470.59 3617000.48 53.66567 (10122222) 488520.59
3617000.48 42.19881 (10122221)
488570.59 3617000.48 36.25102 (10122221) 488620.59
3617000.48 33.75691 (10020421)
486170.59 3617050.48 48.39126 (10020323) 486220.59
3617050.48 50.19314 (10020323)
486270.59 3617050.48 52.09371 (10020323) 486320.59
3617050.48 54.92141 (10022024)
486370.59 3617050.48 58.61938 (10060406) 486420.59
3617050.48 73.71537 (10120219)
486470.59 3617050.48 95.76340 (10120219) 486520.59
3617050.48 120.26502 (10120219)
486570.59 3617050.48 114.96977 (10120219) 486620.59
3617050.48 120.63966 (10120219)
486670.59 3617050.48 121.36878 (10120219) 486720.59
3617050.48 130.07110 (10121318)
486770.59 3617050.48 140.97439 (10121318) 486820.59
3617050.48 160.85808 (10011720)
486870.59 3617050.48 205.94930 (10092521) 486920.59
3617050.48 303.26653 (10071504)
486970.59 3617050.48 350.36300 (10071501) 487020.59
3617050.48 309.78872 (10093005)
487070.59 3617050.48 227.34159 (10071502) 487120.59
3617050.48 208.00038 (10100223)
487170.59 3617050.48 217.82086 (10092521) 487220.59

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   HAUL0001   , HAUL0002
 , HAUL0003   , HAUL0004   , HAUL0005   ,
                 HAUL0006   , HAUL0007   , HAUL0008   , HAUL0009   , HAUL0010
 , HAUL0011   , HAUL0012   , HAUL0013   ,
                 HAUL0014   , HAUL0015   , HAUL0016   , HAUL0017   , HAUL0018
 , HAUL0019   , HAUL0020   , HAUL0021   ,
                 HAUL0022   , HAUL0023   , HAUL0024   , HAUL0025   , HAUL0026
 , HAUL0027   , HAUL0028   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                   ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

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       488370.59   3617050.48       51.19649  (10122221)               488420.59
3617050.48       46.92175  (10122221)
       488470.59   3617050.48       68.45147  (10122221)               488520.59
3617050.48       47.53052  (10122221)
       488570.59   3617050.48       39.44518  (10122221)               488620.59
3617050.48       37.18285  (10122221)
       486220.59   3617100.48       47.78431  (10111518)               486270.59
3617100.48       50.52056  (10121401)
       486320.59   3617100.48       58.48316  (10120219)               486370.59
3617100.48       73.03565  (10120219)
       486420.59   3617100.48       88.65079  (10120219)               486470.59
3617100.48       99.90831  (10120219)
       486520.59   3617100.48      100.12455  (10120219)               486570.59
3617100.48       99.53002  (10120219)
       486620.59   3617100.48      104.16979  (10120219)               486670.59
3617100.48      118.56477  (10121318)
       486720.59   3617100.48      141.32418  (10121318)               486770.59
3617100.48      150.89107  (10121318)
       486820.59   3617100.48      156.37419  (10121318)               486870.59
3617100.48      174.31068  (10092521)
       486920.59   3617100.48      205.00772  (10102919)               486970.59
3617100.48      224.96740  (10011720)
       487020.59   3617100.48      212.85585  (10093005)               487070.59
3617100.48      212.72724  (10093003)
       487120.59   3617100.48      185.81320  (10071502)               487170.59
3617100.48      184.38995  (10092521)
       487220.59   3617100.48      194.18483  (10092521)               487270.59
3617100.48      203.83549  (10092521)
       487320.59   3617100.48      215.09314  (10093004)               487370.59
3617100.48      223.89078  (10021620)
       487420.59   3617100.48      232.64261  (10071503)               487470.59
3617100.48      241.01035  (10093005)
       487520.59   3617100.48      245.00231  (10093005)               487570.59
3617100.48      261.67626  (10071502)
       487620.59   3617100.48      268.29508  (10100223)               487670.59
3617100.48      271.77638  (10031321)
       487720.59   3617100.48      264.56081  (10031321)               487770.59
3617100.48      267.46036  (10022022)
       487820.59   3617100.48      275.83579  (10022022)               487870.59
3617100.48      265.94052  (10022022)
       487920.59   3617100.48      249.56807  (10101723)               487970.59
3617100.48      214.87985  (10101723)
       488020.59   3617100.48      160.36693  (10101723)               488070.59
3617100.48      119.73896  (10121522)
       488120.59   3617100.48      119.34883  (10121522)               488170.59
3617100.48      125.85786  (10121522)
       488220.59   3617100.48      110.82323  (10101702)               488270.59
3617100.48      111.02724  (10101702)
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        488320.59   3617100.48      101.99635  (10101702)                488370.59
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 3617100.48       53.95376  (10122221)
        488520.59   3617100.48       47.57920  (10122221)                488570.59
 3617100.48       83.61905  (10122221)
        488620.59   3617100.48       99.54249  (10122222)                486270.59
 3617150.48       58.73540  (10120219)
        486320.59   3617150.48       70.45824  (10120219)                486370.59
 3617150.48       81.13438  (10120219)
        486420.59   3617150.48       87.47533  (10120219)                486470.59
 3617150.48       88.57900  (10120219)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 203
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        486520.59   3617150.48       87.84029  (10120219)                486570.59
 3617150.48       88.69729  (10120219)
        486620.59   3617150.48      110.49532  (10011620)                486670.59
 3617150.48      123.93432  (10121318)
        486720.59   3617150.48      144.80330  (10121318)                486770.59
 3617150.48      156.20009  (10121318)
        486820.59   3617150.48      158.09858  (10121318)                486870.59
 3617150.48      151.88991  (10121318)
        486920.59   3617150.48      172.27916  (10102919)                486970.59
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3617150.48 197.21429 (10011720)
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3617150.48 152.05770 (10092521)
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487320.59 3617150.48 180.11780 (10092521) 487370.59
3617150.48 188.73961 (10011720)
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3617150.48 104.58241 (10101707)
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3617150.48 90.02653 (10121522)
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3617150.48 99.76961 (10101702)
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3617150.48 108.56482 (10101702)
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3617150.48 41.25887 (10122221)
488520.59 3617150.48 57.12962 (10122221) 488570.59
3617150.48 97.33777 (10122222)
488620.59 3617150.48 99.83489 (10122222) 485970.59
3617200.48 35.61705 (10111518)
486020.59 3617200.48 37.34497 (10111518) 486220.59
3617200.48 57.90001 (10120219)
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3617200.48 74.37148 (10120219)
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3617200.48 79.12718 (10120219)
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3617200.48 75.03562 (10120219)
486570.59 3617200.48 95.43306 (10011620) 486620.59
3617200.48 111.65138 (10011620)
486670.59 3617200.48 132.53158 (10121318) 486720.59
3617200.48 141.32634 (10121318)
486770.59 3617200.48 158.39085 (10121318) 486820.59
3617200.48 157.78703 (10121318)
486870.59 3617200.48 151.23335 (10040823) 486920.59

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   HAUL0001   , HAUL0002
 , HAUL0003   , HAUL0004   , HAUL0005   ,
                 HAUL0006   , HAUL0007   , HAUL0008   , HAUL0009   , HAUL0010
 , HAUL0011   , HAUL0012   , HAUL0013   ,
                 HAUL0014   , HAUL0015   , HAUL0016   , HAUL0017   , HAUL0018
 , HAUL0019   , HAUL0020   , HAUL0021   ,
                 HAUL0022   , HAUL0023   , HAUL0024   , HAUL0025   , HAUL0026
 , HAUL0027   , HAUL0028   , . . .   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                              ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

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       488070.59   3617200.48       94.22960  (10101707)              488120.59
3617200.48       95.30005  (10101707)
       488170.59   3617200.48       85.21849  (10101707)              488220.59
3617200.48       74.14816  (10101707)
       488270.59   3617200.48       79.59683  (10121522)              488320.59
3617200.48      112.14278  (10121522)
       488370.59   3617200.48      109.07991  (10121522)              488420.59
3617200.48       98.69614  (10121522)
       488470.59   3617200.48       56.07848  (10080805)              488520.59
3617200.48       48.52392  (10122221)
       488570.59   3617200.48       86.37032  (10101702)              488620.59
3617200.48       85.71111  (10101106)
       485920.59   3617250.48       33.36545  (10111518)              485970.59
3617250.48       34.91202  (10111518)
       486020.59   3617250.48       36.55614  (10111518)              486070.59
3617250.48       40.75533  (10120219)
       486170.59   3617250.48       56.32892  (10120219)              486220.59
3617250.48       63.31343  (10120219)
       486270.59   3617250.48       68.44238  (10120219)              486320.59
3617250.48       70.96450  (10120219)
       486370.59   3617250.48       76.60322  (10120219)              486420.59
3617250.48       69.01364  (10120219)
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3617250.48       86.00548  (10011620)
       486570.59   3617250.48      101.58915  (10011620)              486620.59
3617250.48      120.65497  (10011620)
       486670.59   3617250.48      135.67589  (10121318)              486720.59
3617250.48      148.93737  (10121318)
       486770.59   3617250.48      156.49256  (10121318)              486820.59
3617250.48      150.60195  (10121318)
       486870.59   3617250.48      148.34212  (10040823)              486920.59
3617250.48      138.21012  (10021621)
       486970.59   3617250.48      131.54695  (10021621)              487020.59
3617250.48      122.39020  (10021621)
       487070.59   3617250.48      116.09773  (10121022)              487120.59
3617250.48      108.14261  (10121022)
       487170.59   3617250.48      100.87986  (10121022)              487220.59
3617250.48       95.11060  (10121022)
       487270.59   3617250.48       88.49579  (10120320)              487320.59
3617250.48       73.15083  (10120320)
       487370.59   3617250.48       72.32469  (10011720)              487420.59
3617250.48       79.14847  (10011720)
       487470.59   3617250.48       77.08456  (10093003)              487520.59
3617250.48       85.95285  (10093003)
       487570.59   3617250.48       81.74203  (10093003)              487620.59
3617250.48       84.02124  (10041721)
       487670.59   3617250.48       89.68668  (10041721)              487720.59
3617250.48       84.74762  (10041721)
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 3617250.48       77.46963  (10093001)
       487870.59   3617250.48       78.02339  (10022020)                487920.59
 3617250.48       73.71256  (10022021)
       487970.59   3617250.48       76.71428  (10022022)                488020.59
 3617250.48       80.28028  (10022022)
       488070.59   3617250.48       73.63504  (10022022)                488120.59
 3617250.48       79.79368  (10101707)
       488170.59   3617250.48       81.25295  (10101707)                488220.59
 3617250.48       80.70100  (10101707)
       488270.59   3617250.48       97.08176  (10101707)                488320.59
 3617250.48       95.23770  (10121522)
       488370.59   3617250.48       92.13725  (10121522)                488420.59
 3617250.48      105.58893  (10121522)
       488470.59   3617250.48       77.77364  (10080805)                488520.59
 3617250.48       94.94701  (10101702)
       488570.59   3617250.48       72.94838  (10122221)                488620.59
 3617250.48       95.41540  (10101702)
       485870.59   3617300.48       31.30788  (10111518)                485920.59
 3617300.48       32.69575  (10111518)
       485970.59   3617300.48       34.71571  (10120219)                486020.59
 3617300.48       41.25926  (10120219)
       486070.59   3617300.48       47.96418  (10120219)                486120.59
 3617300.48       54.30355  (10120219)
       486170.59   3617300.48       59.58379  (10120219)                486220.59
 3617300.48       63.11717  (10120219)
       486270.59   3617300.48       64.32926  (10120219)                486320.59
 3617300.48       67.83542  (10120219)
       486370.59   3617300.48       62.69729  (10120219)                486420.59
 3617300.48       65.00158  (10011120)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 205
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                  HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                  HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                  HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
486470.59	3617300.48	78.55311	(10011620)	486520.59	3617300.48	108.10486	(10011620)
486570.59	3617300.48	114.23989	(10011620)	486620.59	3617300.48	131.96372	(10011620)
486670.59	3617300.48	139.55184	(10121318)	486720.59	3617300.48	150.83610	(10121318)
486770.59	3617300.48	150.83240	(10121318)	486820.59	3617300.48	141.40920	(10102819)
486870.59	3617300.48	134.53830	(10040823)	486920.59	3617300.48	125.90635	(10021621)
486970.59	3617300.48	107.85894	(10092724)	487020.59	3617300.48	101.27948	(10021621)
487070.59	3617300.48	99.58771	(10121022)	487120.59	3617300.48	90.85154	(10121022)
487170.59	3617300.48	82.92513	(10121022)	487220.59	3617300.48	78.33123	(10111620)
487270.59	3617300.48	75.75257	(10111620)	487320.59	3617300.48	65.06182	(10120320)
487370.59	3617300.48	64.72170	(10011720)	487420.59	3617300.48	67.67055	(10011720)
487470.59	3617300.48	67.82579	(10011720)	487520.59	3617300.48	69.21569	(10093003)
487570.59	3617300.48	73.70232	(10093003)	487620.59	3617300.48	81.63959	(10093003)
487670.59	3617300.48	76.54181	(10041721)	487720.59	3617300.48	79.21286	(10041721)
487770.59	3617300.48	66.01024	(10041721)	487820.59	3617300.48	65.11904	(10093001)
487870.59	3617300.48	60.95999	(10093001)	487920.59	3617300.48	56.29996	(10110804)
487970.59	3617300.48	55.38169	(10022021)	488020.59	3617300.48	57.17312	(10022022)
488070.59	3617300.48	61.63507	(10022022)	488120.59	3617300.48	61.83382	(10022022)
488170.59	3617300.48	67.98554	(10101707)	488220.59	3617300.48	75.75644	(10101707)
488270.59	3617300.48	92.36345	(10101707)	488320.59	3617300.48	94.19000	(10101707)
488370.59	3617300.48	82.28864	(10101707)	488420.59	3617300.48	95.70344	(10101707)
488470.59	3617300.48	108.24836	(10101723)	488520.59			

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 3617300.48       77.29998  (10121522)
       488570.59   3617300.48       93.49719  (10121522)                488620.59
 3617300.48       55.65487  (10080805)
       485870.59   3617350.48       32.12301  (10111508)                485920.59
 3617350.48       35.47768  (10120219)
       485970.59   3617350.48       41.27602  (10120219)                486020.59
 3617350.48       46.94656  (10120219)
       486070.59   3617350.48       52.01038  (10120219)                486120.59
 3617350.48       55.92394  (10120219)
       486170.59   3617350.48       58.23139  (10120219)                486220.59
 3617350.48       58.55970  (10120219)
       486270.59   3617350.48       60.78079  (10120219)                486320.59
 3617350.48       54.62407  (10120219)
       486370.59   3617350.48       63.20319  (10021720)                486420.59
 3617350.48       69.48366  (10011620)
       486470.59   3617350.48       97.19080  (10011620)                486520.59
 3617350.48      104.81235  (10011620)
       486570.59   3617350.48      124.01638  (10011620)                486620.59
 3617350.48      130.41966  (10121318)
       486670.59   3617350.48      142.53524  (10121318)                486720.59
 3617350.48      145.91713  (10121318)
       486770.59   3617350.48      139.08797  (10121318)                486820.59
 3617350.48      128.13117  (10102819)
       486870.59   3617350.48      121.63736  (10092724)                486920.59
 3617350.48      109.46243  (10092724)
       486970.59   3617350.48       97.16019  (10092724)                487020.59
 3617350.48       90.95902  (10092724)
       487070.59   3617350.48       80.48484  (10121022)                487120.59
 3617350.48       81.69608  (10121022)
       487170.59   3617350.48       80.01155  (10121022)                487220.59
 3617350.48       71.25642  (10111620)
       487270.59   3617350.48       68.69084  (10111620)                487320.59
 3617350.48       62.75795  (10120320)
       487370.59   3617350.48       65.21450  (10011720)                487420.59
 3617350.48       68.23945  (10011720)
       487470.59   3617350.48       68.70466  (10011720)                487520.59
 3617350.48       64.32205  (10111520)
       487570.59   3617350.48       69.83958  (10093003)                487620.59
 3617350.48       78.79246  (10093003)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE 206
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
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 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        487670.59   3617350.48       76.39749  (10093003)               487720.59
 3617350.48       69.01623  (10041721)
        487770.59   3617350.48       62.79800  (10041721)               487820.59
 3617350.48       51.60293  (10111521)
        487870.59   3617350.48       48.19493  (10111521)               487920.59
 3617350.48       48.78386  (10110804)
        487970.59   3617350.48       51.47406  (10110804)               488020.59
 3617350.48       50.49543  (10110804)
        488070.59   3617350.48       50.37271  (10022021)               488120.59
 3617350.48       49.87065  (10022022)
        488170.59   3617350.48       52.64664  (10100507)               488220.59
 3617350.48       63.68931  (10101707)
        488270.59   3617350.48       76.83125  (10101707)               488320.59
 3617350.48       82.17914  (10101707)
        488370.59   3617350.48       90.47385  (10101707)               488420.59
 3617350.48      105.64680  (10101723)
        488470.59   3617350.48      136.68987  (10101723)               488520.59
 3617350.48      101.41450  (10080805)
        488570.59   3617350.48      102.37315  (10080805)               488620.59
 3617350.48       76.11903  (10080805)
        485870.59   3617400.48       35.84627  (10120219)               485920.59
 3617400.48       40.89280  (10120219)
        485970.59   3617400.48       45.60861  (10120219)               486020.59
 3617400.48       49.57569  (10120219)
        486070.59   3617400.48       52.37631  (10120219)               486120.59
 3617400.48       53.71976  (10120219)
        486170.59   3617400.48       53.39242  (10120219)               486220.59
 3617400.48       53.91095  (10120219)
        486270.59   3617400.48       47.67003  (10120219)               486320.59
 3617400.48       57.33403  (10021720)
        486370.59   3617400.48       72.89691  (10011620)               486420.59
 3617400.48       88.81478  (10011620)
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       486470.59   3617400.48      101.20845  (10011620)                486520.59
 3617400.48      119.36736  (10011620)
       486570.59   3617400.48      129.04516  (10011620)                486620.59
 3617400.48      134.59381  (10121318)
       486670.59   3617400.48      140.12237  (10121318)                486720.59
 3617400.48      137.00533  (10121318)
       486770.59   3617400.48      124.97288  (10102819)                486820.59
 3617400.48      118.05489  (10092724)
       486870.59   3617400.48      109.02024  (10092724)                486920.59
 3617400.48       97.75098  (10092724)
       486970.59   3617400.48       84.48945  (10092724)                487020.59
 3617400.48       76.66321  (10092724)
       487070.59   3617400.48       69.83903  (10121022)                487120.59
 3617400.48       64.98890  (10121022)
       487170.59   3617400.48       66.16326  (10111620)                487220.59
 3617400.48       62.91201  (10111620)
       487270.59   3617400.48       60.98494  (10111620)                487320.59
 3617400.48       55.23376  (10120320)
       487370.59   3617400.48       65.35904  (10011720)                487420.59
 3617400.48       68.91096  (10011720)
       487470.59   3617400.48       70.54192  (10011720)                487520.59
 3617400.48       63.35246  (10111520)
       487570.59   3617400.48       65.69250  (10093003)                487620.59
 3617400.48       70.86487  (10093003)
       487670.59   3617400.48       76.37630  (10093003)                487720.59
 3617400.48       50.43335  (10041721)
       487770.59   3617400.48       51.90826  (10041721)                487820.59
 3617400.48       51.52332  (10041721)
       487870.59   3617400.48       49.12995  (10111521)                487920.59
 3617400.48       47.10956  (10111521)
       487970.59   3617400.48       48.63069  (10110804)                488020.59
 3617400.48       51.38232  (10110804)
       488070.59   3617400.48       50.57358  (10110804)                488120.59
 3617400.48       51.18619  (10022021)
       488170.59   3617400.48       49.35257  (10022021)                488220.59
 3617400.48       62.97458  (10022022)
       488270.59   3617400.48       58.92798  (10022022)                488320.59
 3617400.48       62.34458  (10101707)
       488370.59   3617400.48       72.29029  (10101707)                488420.59
 3617400.48      149.70631  (10101723)
       488470.59   3617400.48      152.62632  (10101723)                488520.59
 3617400.48      141.42887  (10101723)
       488570.59   3617400.48      124.75271  (10101723)                488620.59
 3617400.48      105.24978  (10101723)
       485870.59   3617450.48       40.19247  (10120219)                485920.59
 3617450.48       44.03504  (10120219)
       485970.59   3617450.48       47.06316  (10120219)                486020.59
 3617450.48       48.97006  (10120219)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
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*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
INCLUDING SOURCE(S):   HAUL0001   , HAUL0002 , HAUL0003   , HAUL0004   , HAUL0005   ,
HAUL0006   , HAUL0007   , HAUL0008   , HAUL0009   , HAUL0010 , HAUL0011   , HAUL0012   , HAUL0013   ,
HAUL0014   , HAUL0015   , HAUL0016   , HAUL0017   , HAUL0018 , HAUL0019   , HAUL0020   , HAUL0021   ,
HAUL0022   , HAUL0023   , HAUL0024   , HAUL0025   , HAUL0026 , HAUL0027   , HAUL0028   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5   IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
486070.59	3617450.48	49.50094	(10120219)	486120.59	3617450.48	52.23802	(10120219)
486170.59	3617450.48	47.66073	(10120219)	486220.59	3617450.48	54.78610	(10021720)
486270.59	3617450.48	54.34173	(10011120)	486320.59	3617450.48	66.56070	(10011620)
486370.59	3617450.48	85.44354	(10011620)	486420.59	3617450.48	94.15171	(10011620)
486470.59	3617450.48	114.56776	(10011620)	486520.59	3617450.48	126.70791	(10011620)
486570.59	3617450.48	126.02809	(10121318)	486620.59	3617450.48	134.03781	(10121318)
486670.59	3617450.48	130.87266	(10121318)	486720.59	3617450.48	123.64448	(10121318)
486770.59	3617450.48	111.86076	(10092724)	486820.59	3617450.48	108.97692	(10092724)
486870.59	3617450.48	96.92578	(10092724)	486920.59	3617450.48	87.76483	(10092724)
486970.59	3617450.48	73.37380	(10092724)	487020.59	3617450.48	64.82504	(10092724)
487070.59	3617450.48	58.40660	(10121022)	487120.59	3617450.48	53.25316	(10111620)
487170.59	3617450.48	54.39597	(10111620)	487220.59			

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3617450.48       55.86985  (10111620)
       487270.59   3617450.48       60.83834  (10111620)                487320.59
3617450.48       55.79469  (10120320)
       487370.59   3617450.48       65.23115  (10011720)                487420.59
3617450.48       69.42723  (10011720)
       487470.59   3617450.48       71.95766  (10011720)                487520.59
3617450.48       62.78616  (10011720)
       487570.59   3617450.48       54.66451  (10111520)                487620.59
3617450.48       39.41119  (10121820)
       487670.59   3617450.48       39.82875  (10100103)                487720.59
3617450.48       41.95602  (10100103)
       487770.59   3617450.48       45.84025  (10041721)                487820.59
3617450.48       46.91777  (10041721)
       487870.59   3617450.48       42.07923  (10041721)                487920.59
3617450.48       42.88957  (10111521)
       487970.59   3617450.48       43.67417  (10111521)                488020.59
3617450.48       43.07656  (10110804)
       488070.59   3617450.48       45.75032  (10110804)                488120.59
3617450.48       47.50558  (10110804)
       488170.59   3617450.48       44.41469  (10022021)                488220.59
3617450.48       49.40936  (10022021)
       488270.59   3617450.48       47.89496  (10101720)                488320.59
3617450.48       46.34421  (10100507)
       488370.59   3617450.48       56.54578  (10101707)                488420.59
3617450.48      176.20241  (10022022)
       488470.59   3617450.48      156.57420  (10101723)                488520.59
3617450.48      152.13200  (10101723)
       488570.59   3617450.48      142.48601  (10101723)                488620.59
3617450.48      130.13400  (10101723)
       485870.59   3617500.48       42.32347  (10120219)                485920.59
3617500.48       44.54746  (10120219)
       485970.59   3617500.48       45.71094  (10120219)                486020.59
3617500.48       45.60703  (10120219)
       486070.59   3617500.48       47.28629  (10120219)                486120.59
3617500.48       42.15234  (10120219)
       486170.59   3617500.48       48.12829  (10021720)                486220.59
3617500.48       48.58968  (10011120)
       486270.59   3617500.48       66.52828  (10020321)                486320.59
3617500.48       78.92643  (10011620)
       486370.59   3617500.48      102.04558  (10011620)                486420.59
3617500.48      108.10871  (10011620)
       486470.59   3617500.48      121.05637  (10011620)                486520.59
3617500.48      124.25409  (10011620)
       486570.59   3617500.48      127.78140  (10121318)                486620.59
3617500.48      128.83550  (10121318)
       486670.59   3617500.48      118.98217  (10121318)                486720.59
3617500.48      110.61277  (10102819)
       486770.59   3617500.48      103.27825  (10092724)                486820.59
3617500.48       97.99085  (10092724)
       486870.59   3617500.48       84.53596  (10092724)                486920.59
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
487270.59	3617500.48	60.81045	(10111620)	487320.59	3617500.48	60.45114	(10120320)
487370.59	3617500.48	64.93644	(10011720)	487420.59	3617500.48	64.58208	(10011720)
487470.59	3617500.48	54.11305	(10102521)	487520.59	3617500.48	48.97121	(10111520)
487570.59	3617500.48	38.45775	(10111520)	487620.59	3617500.48	32.15438	(10121820)
487670.59	3617500.48	34.77510	(10100103)	487720.59	3617500.48	34.98820	(10100103)
487770.59	3617500.48	35.44278	(10100103)	487820.59	3617500.48	39.20647	(10041721)
487870.59	3617500.48	40.44047	(10041721)	487920.59	3617500.48	37.64016	(10111521)

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       487970.59   3617500.48       38.33649  (10111521)               488020.59
3617500.48       35.26876  (10090723)
       488070.59   3617500.48       36.51832  (10110804)               488120.59
3617500.48       38.56677  (10110804)
       488170.59   3617500.48       38.39714  (10110804)               488220.59
3617500.48       40.75443  (10022021)
       488270.59   3617500.48       41.56815  (10022021)               488320.59
3617500.48       38.19086  (10101720)
       488370.59   3617500.48       60.25253  (10101720)               488420.59
3617500.48      182.83581  (10022022)
       488470.59   3617500.48      171.78313  (10022022)               488520.59
3617500.48      157.57236  (10022022)
       488570.59   3617500.48      150.10275  (10101723)               488620.59
3617500.48      146.97538  (10101723)
       485870.59   3617550.48       42.06215  (10120219)               485920.59
3617550.48       42.60231  (10120219)
       485970.59   3617550.48       45.71816  (10120219)               486020.59
3617550.48       42.33503  (10120219)
       486070.59   3617550.48       37.45053  (10120219)               486120.59
3617550.48       43.62284  (10021720)
       486170.59   3617550.48       45.14000  (10011120)               486220.59
3617550.48       57.68719  (10020321)
       486270.59   3617550.48       73.14756  (10011620)               486320.59
3617550.48       93.38465  (10011620)
       486370.59   3617550.48      103.41491  (10011620)               486420.59
3617550.48      116.44261  (10011620)
       486470.59   3617550.48      120.73538  (10011620)               486520.59
3617550.48      120.53784  (10121318)
       486570.59   3617550.48      124.90088  (10121318)               486620.59
3617550.48      120.25800  (10121318)
       486670.59   3617550.48      106.84320  (10121318)               486720.59
3617550.48       96.61983  (10092724)
       486770.59   3617550.48       93.95677  (10092724)               486820.59
3617550.48       82.33921  (10092724)
       486870.59   3617550.48       70.68466  (10092724)               486920.59
3617550.48       64.33714  (10092724)
       486970.59   3617550.48       53.54647  (10092724)               487020.59
3617550.48       44.44064  (10092724)
       487070.59   3617550.48       38.39761  (10092923)               487120.59
3617550.48       39.67712  (10092923)
       487170.59   3617550.48       40.97904  (10111620)               487220.59
3617550.48       43.47751  (10111620)
       487270.59   3617550.48       57.56520  (10111620)               487320.59
3617550.48       53.05515  (10120320)
       487370.59   3617550.48       43.42180  (10102521)               487420.59
3617550.48       38.90121  (10102521)
       487470.59   3617550.48       38.49927  (10102521)               487520.59
3617550.48       38.61235  (10111520)
       487570.59   3617550.48       36.07336  (10111520)               487620.59
3617550.48       31.57250  (10102817)
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        487670.59   3617550.48       30.49502  (10121820)                487720.59
 3617550.48       31.62188  (10100103)
        487770.59   3617550.48       33.44386  (10100103)                487820.59
 3617550.48       34.39104  (10041721)
        487870.59   3617550.48       35.38130  (10041721)                487920.59
 3617550.48       33.63160  (10041721)
        487970.59   3617550.48       27.90523  (10111521)                488020.59
 3617550.48       29.27762  (10073106)
        488070.59   3617550.48       30.67687  (10073106)                488120.59
 3617550.48       30.28437  (10110804)
        488170.59   3617550.48       33.10251  (10110804)                488220.59
 3617550.48       35.91041  (10110804)
        488270.59   3617550.48       39.31094  (10022021)                488320.59
 3617550.48       46.31615  (10022021)
        488370.59   3617550.48      123.23097  (10022022)                488420.59
 3617550.48      178.59344  (10022022)
🡅 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE 209
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        488470.59   3617550.48      175.26110  (10022022)                488520.59
 3617550.48      170.50903  (10022022)
        488570.59   3617550.48      158.81581  (10022022)                488620.59
 3617550.48      151.95589  (10101723)
        485870.59   3617600.48       39.70152  (10120219)                485920.59
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3617600.48 42.14914 (10120219)
485970.59 3617600.48 37.92941 (10120219) 486020.59
3617600.48 33.24308 (10120219)
486070.59 3617600.48 43.07961 (10021720) 486120.59
3617600.48 42.07862 (10011120)
486170.59 3617600.48 45.56075 (10011120) 486220.59
3617600.48 67.85300 (10011620)
486270.59 3617600.48 74.39091 (10011620) 486320.59
3617600.48 98.09391 (10011620)
486370.59 3617600.48 114.43640 (10011620) 486420.59
3617600.48 118.40999 (10011620)
486470.59 3617600.48 112.87156 (10121318) 486520.59
3617600.48 118.93188 (10121318)
486570.59 3617600.48 117.94423 (10121318) 486620.59
3617600.48 109.28718 (10121318)
486670.59 3617600.48 95.82221 (10102819) 486720.59
3617600.48 89.90050 (10092724)
486770.59 3617600.48 79.83112 (10092724) 486820.59
3617600.48 67.39090 (10092724)
486870.59 3617600.48 62.13925 (10092724) 486920.59
3617600.48 51.64449 (10092724)
486970.59 3617600.48 43.34467 (10092724) 487020.59
3617600.48 37.50123 (10011717)
487070.59 3617600.48 36.89800 (10092923) 487120.59
3617600.48 38.11925 (10092923)
487170.59 3617600.48 38.81319 (10092923) 487220.59
3617600.48 43.14043 (10092923)
487270.59 3617600.48 65.22558 (10120320) 487320.59
3617600.48 46.05594 (10120320)
487370.59 3617600.48 33.95722 (10010909) 487420.59
3617600.48 35.65245 (10010909)
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3617600.48 35.23515 (10010909)
487570.59 3617600.48 34.08949 (10111520) 487620.59
3617600.48 30.81320 (10102817)
487670.59 3617600.48 27.33034 (10121820) 487720.59
3617600.48 28.37122 (10121820)
487770.59 3617600.48 30.76999 (10100103) 487820.59
3617600.48 29.08942 (10100103)
487870.59 3617600.48 30.11899 (10041721) 487920.59
3617600.48 30.12561 (10041721)
487970.59 3617600.48 26.58241 (10101507) 488020.59
3617600.48 24.68099 (10060306)
488070.59 3617600.48 27.54626 (10073106) 488120.59
3617600.48 28.47504 (10073106)
488170.59 3617600.48 29.54652 (10101421) 488220.59
3617600.48 34.28540 (10110804)
488270.59 3617600.48 41.26968 (10110804) 488320.59
3617600.48 66.20305 (10022021)
488370.59 3617600.48 119.30570 (10102520) 488420.59

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
486870.59	3617650.48	51.37404	(10092724)	486920.59	3617650.48	44.08657	(10092724)
486970.59	3617650.48	38.25356	(10092724)	487020.59	3617650.48	36.62059	(10011717)
487070.59	3617650.48	37.43645	(10111620)	487120.59	3617650.48	38.89402	(10111620)
487170.59	3617650.48	45.79751	(10111620)	487220.59	3617650.48	60.42819	(10111620)
487270.59	3617650.48	45.58201	(10111620)	487320.59	3617650.48	31.47128	(10010909)
487370.59	3617650.48	33.23050	(10010909)	487420.59	3617650.48	34.92935	(10010909)
487470.59	3617650.48	35.80430	(10010909)	487520.59	3617650.48	35.10553	(10010909)
487570.59	3617650.48	32.34575	(10010909)	487620.59	3617650.48	30.06352	(10120809)
487670.59	3617650.48	26.90564	(10102817)	487720.59	3617650.48	25.80614	(10121820)
487770.59	3617650.48	27.37647	(10100103)	487820.59	3617650.48	27.06267	(10100103)
487870.59	3617650.48	26.44268	(10060106)	487920.59	3617650.48	26.48007	(10060106)
487970.59	3617650.48	26.83019	(10041721)	488020.59	3617650.48	25.26081	(10101507)
488070.59	3617650.48	24.35640	(10060306)	488120.59	3617650.48	27.73999	(10073106)
488170.59	3617650.48	31.19519	(10090723)	488220.59	3617650.48	34.51618	(10110804)
488270.59	3617650.48	40.66035	(10110804)	488320.59	3617650.48	42.43472	(10110804)
488370.59	3617650.48	94.71664	(10022021)	488420.59	3617650.48	151.31144	(10022022)
488470.59	3617650.48	154.25931	(10022022)	488520.59	3617650.48	162.29999	(10022022)
488570.59	3617650.48	166.00912	(10022022)	488620.59	3617650.48	168.90466	(10022022)
485870.59	3617700.48	30.56858	(10120219)	485920.59	3617700.48	29.31097	(10021720)
485970.59	3617700.48	34.84343	(10021720)	486020.59	3617700.48	36.89784	(10011120)
486070.59	3617700.48	46.51739	(10020321)	486120.59	3617700.48	56.81751	(10020321)
486170.59	3617700.48	65.20544	(10011620)	486220.59	3617700.48	79.63682	(10011620)
486270.59	3617700.48	96.92081	(10011620)	486320.59	3617700.48	107.38313	(10011620)

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       486370.59   3617700.48      109.50961  (10011620)                486420.59
 3617700.48      107.79738  (10121318)
       486470.59   3617700.48      113.40400  (10121318)                486520.59
 3617700.48      108.65640  (10121318)
       486570.59   3617700.48       98.58948  (10121318)                486620.59
 3617700.48       84.77957  (10102819)
       486670.59   3617700.48       81.04617  (10092724)                486720.59
 3617700.48       71.11850  (10092724)
       486770.59   3617700.48       60.60261  (10092724)                486820.59
 3617700.48       51.27825  (10092724)
       486870.59   3617700.48       43.24083  (10092724)                486920.59
 3617700.48       39.89837  (10092724)
       486970.59   3617700.48       37.36708  (10011717)                487020.59
 3617700.48       37.27220  (10111620)
       487070.59   3617700.48       38.47740  (10111620)                487120.59
 3617700.48       39.97163  (10111620)
       487170.59   3617700.48       43.36936  (10111620)                487220.59
 3617700.48       39.95729  (10111620)
       487270.59   3617700.48       33.10074  (10120309)                487320.59
 3617700.48       31.02832  (10010909)
       487370.59   3617700.48       32.61425  (10010909)                487420.59
 3617700.48       34.25205  (10010909)
       487470.59   3617700.48       35.25502  (10010909)                487520.59
 3617700.48       34.89355  (10010909)
       487570.59   3617700.48       32.65050  (10010909)                487620.59
 3617700.48       30.21494  (10120809)
       487670.59   3617700.48       27.51712  (10120809)                487720.59
 3617700.48       23.91276  (10121820)
       487770.59   3617700.48       23.85215  (10121820)                487820.59
 3617700.48       25.59750  (10100103)
       487870.59   3617700.48       24.47364  (10100103)                487920.59
 3617700.48       25.18306  (10060106)
       487970.59   3617700.48       26.64111  (10041721)                488020.59
 3617700.48       26.62249  (10041721)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE 211
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
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HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026
, HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
488070.59	3617700.48	26.76287	(10050823)	488120.59	3617700.48	34.81758	(10111521)
488170.59	3617700.48	37.73602	(10111521)	488220.59	3617700.48	45.82788	(10090723)
488270.59	3617700.48	50.69498	(10022020)	488320.59	3617700.48	56.25826	(10022020)
488370.59	3617700.48	76.95472	(10022021)	488420.59	3617700.48	168.56020	(10031321)
488470.59	3617700.48	148.21847	(10031321)	488520.59	3617700.48	148.46460	(10022022)
488570.59	3617700.48	156.21671	(10022022)	488620.59	3617700.48	163.85411	(10022022)
485870.59	3617750.48	27.36687	(10021720)	485920.59	3617750.48	34.73849	(10021720)
485970.59	3617750.48	36.02012	(10011120)	486020.59	3617750.48	52.36180	(10020321)
486070.59	3617750.48	56.39433	(10020321)	486120.59	3617750.48	63.01157	(10011620)
486170.59	3617750.48	74.85564	(10011620)	486220.59	3617750.48	90.28497	(10011620)
486270.59	3617750.48	102.13617	(10011620)	486320.59	3617750.48	103.34517	(10011620)
486370.59	3617750.48	101.59357	(10121318)	486420.59	3617750.48	109.54803	(10121318)
486470.59	3617750.48	109.87292	(10121318)	486520.59	3617750.48	102.56055	(10121318)
486570.59	3617750.48	91.10245	(10121318)	486620.59	3617750.48	78.29011	(10092724)
486670.59	3617750.48	73.02693	(10092724)	486720.59	3617750.48	63.65207	(10092724)
486770.59	3617750.48	53.93207	(10092724)	486820.59	3617750.48	44.84093	(10092724)
486870.59	3617750.48	42.32764	(10092724)	486920.59	3617750.48	39.57565	(10092724)
486970.59	3617750.48	37.47929	(10111620)	487020.59	3617750.48	38.30160	(10111620)
487070.59	3617750.48	39.59155	(10111620)	487120.59			

3617750.48 40.33742 (10111620)
  487170.59 3617750.48 37.19671 (10111620) 487220.59
3617750.48 34.19065 (10092923)
  487270.59 3617750.48 32.64221 (10120309) 487320.59
3617750.48 30.68586 (10010909)
  487370.59 3617750.48 32.08241 (10010909) 487420.59
3617750.48 33.62886 (10010909)
  487470.59 3617750.48 34.70740 (10010909) 487520.59
3617750.48 34.62622 (10010909)
  487570.59 3617750.48 32.84571 (10010909) 487620.59
3617750.48 30.22870 (10120809)
  487670.59 3617750.48 28.06295 (10120809) 487720.59
3617750.48 24.52811 (10120809)
  487770.59 3617750.48 21.52019 (10121820) 487820.59
3617750.48 22.90272 (10100103)
  487870.59 3617750.48 24.29827 (10100103) 487920.59
3617750.48 24.02107 (10060106)
  487970.59 3617750.48 26.04084 (10041721) 488020.59
3617750.48 27.72646 (10041721)
  488070.59 3617750.48 34.71000 (10041721) 488120.59
3617750.48 45.85972 (10111521)
  488170.59 3617750.48 46.34056 (10111521) 488220.59
3617750.48 62.98072 (10093001)
  488270.59 3617750.48 76.98699 (10093001) 488320.59
3617750.48 90.68391 (10031321)
  488370.59 3617750.48 173.39808 (10031321) 488420.59
3617750.48 183.00042 (10031321)
  488470.59 3617750.48 171.13320 (10031321) 488520.59
3617750.48 146.44271 (10031321)
  488570.59 3617750.48 142.51754 (10022022) 488620.59
3617750.48 153.44841 (10022022)
  485870.59 3617800.48 32.48345 (10021720) 485920.59
3617800.48 33.04704 (10011120)
  485970.59 3617800.48 48.52092 (10020321) 486020.59
3617800.48 53.28670 (10020321)
  486070.59 3617800.48 57.88033 (10011620) 486120.59
3617800.48 78.78266 (10011620)
  486170.59 3617800.48 88.51373 (10011620) 486220.59
3617800.48 99.09916 (10011620)
  486270.59 3617800.48 102.45941 (10011620) 486370.59
3617800.48 103.91876 (10121318)
  486420.59 3617800.48 107.20402 (10121318) 486470.59
3617800.48 106.78760 (10121318)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
486520.59	3617800.48	99.07387	(10121318)	486570.59	3617800.48	80.54400	(10102819)
486620.59	3617800.48	73.24555	(10092724)	486670.59	3617800.48	66.91818	(10092724)
486720.59	3617800.48	57.31461	(10092724)	486770.59	3617800.48	48.22638	(10092724)
486820.59	3617800.48	44.81372	(10092724)	486870.59	3617800.48	42.13717	(10092724)
486920.59	3617800.48	38.96868	(10092724)	486970.59	3617800.48	38.46990	(10111620)
487020.59	3617800.48	36.59250	(10111620)	487070.59	3617800.48	34.15121	(10120309)
487120.59	3617800.48	34.19737	(10120309)	487170.59	3617800.48	34.09218	(10120309)
487220.59	3617800.48	33.57324	(10120309)	487270.59	3617800.48	32.20673	(10120309)
487320.59	3617800.48	30.39014	(10010909)	487370.59	3617800.48	31.61703	(10010909)
487420.59	3617800.48	33.05635	(10010909)	487470.59	3617800.48	34.16481	(10010909)
487520.59	3617800.48	34.30566	(10010909)	487570.59	3617800.48	32.92644	(10010909)
487620.59	3617800.48	30.10618	(10120809)	487670.59	3617800.48	28.43880	(10120809)
487720.59	3617800.48	25.40745	(10120809)	487770.59	3617800.48	21.36132	(10120809)
487820.59	3617800.48	20.23953	(10100103)	487870.59	3617800.48	23.80781	(10100103)

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       487920.59   3617800.48       27.79005  (10100103)               487970.59
3617800.48       30.66284  (10041721)
       488020.59   3617800.48       44.90274  (10041721)               488070.59
3617800.48       56.68447  (10041721)
       488120.59   3617800.48       74.11003  (10041721)               488170.59
3617800.48       74.35581  (10032602)
       488220.59   3617800.48      119.28523  (10100223)               488270.59
3617800.48      128.04597  (10100223)
       488320.59   3617800.48      193.49322  (10100223)               488370.59
3617800.48      182.79933  (10031321)
       488420.59   3617800.48      187.67962  (10031321)               488470.59
3617800.48      183.24387  (10031321)
       488520.59   3617800.48      167.87699  (10031321)               488570.59
3617800.48      144.56545  (10031321)
       488620.59   3617800.48      139.72594  (10022022)               485870.59
3617850.48       30.88233  (10011120)
       485920.59   3617850.48       39.10833  (10020321)               485970.59
3617850.48       50.41273  (10020321)
       486020.59   3617850.48       56.47116  (10011620)               486070.59
3617850.48       75.38359  (10011620)
       486120.59   3617850.48       85.32793  (10011620)               486170.59
3617850.48       95.97101  (10011620)
       486220.59   3617850.48       99.68128  (10011620)               486420.59
3617850.48      105.15728  (10121318)
       486470.59   3617850.48       98.93956  (10121318)               486520.59
3617850.48       87.58873  (10121318)
       486570.59   3617850.48       75.82736  (10102819)               486620.59
3617850.48       66.85946  (10092724)
       486670.59   3617850.48       58.65432  (10092724)               486720.59
3617850.48       51.05157  (10092724)
       486770.59   3617850.48       44.41372  (10092724)               486820.59
3617850.48       41.99684  (10092724)
       486870.59   3617850.48       41.72523  (10092724)               486920.59
3617850.48       38.49075  (10111620)
       486970.59   3617850.48       37.11970  (10111620)               487020.59
3617850.48       33.82371  (10120309)
       487070.59   3617850.48       33.93869  (10120309)               487120.59
3617850.48       33.99548  (10120309)
       487170.59   3617850.48       33.84052  (10120309)               487220.59
3617850.48       33.23950  (10120309)
       487270.59   3617850.48       31.81562  (10120309)               487320.59
3617850.48       30.12200  (10010909)
       487370.59   3617850.48       31.21336  (10010909)               487420.59
3617850.48       32.53761  (10010909)
       487470.59   3617850.48       33.64128  (10010909)               487520.59
3617850.48       33.94729  (10010909)
       487570.59   3617850.48       32.91507  (10010909)               487620.59
3617850.48       30.27746  (10010909)
       487670.59   3617850.48       28.66243  (10120809)               487720.59
3617850.48       26.11459  (10120809)
```

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   HAUL0001   , HAUL0002
 , HAUL0003   , HAUL0004   , HAUL0005   ,
                 HAUL0006   , HAUL0007   , HAUL0008   , HAUL0009   , HAUL0010
 , HAUL0011   , HAUL0012   , HAUL0013   ,
                 HAUL0014   , HAUL0015   , HAUL0016   , HAUL0017   , HAUL0018
 , HAUL0019   , HAUL0020   , HAUL0021   ,
                 HAUL0022   , HAUL0023   , HAUL0024   , HAUL0025   , HAUL0026
 , HAUL0027   , HAUL0028   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        487870.59   3617850.48   24.75353 (10100103)   487920.59
 3617850.48   29.24796 (10100103)
        487970.59   3617850.48   33.82366 (10100103)   488020.59
 3617850.48   45.11708 (10041721)
        488070.59   3617850.48   72.86379 (10041721)   488120.59
 3617850.48   123.08060 (10071502)
        488170.59   3617850.48   117.20789 (10071502)   488220.59
 3617850.48   115.01278 (10100223)
        488270.59   3617850.48   124.84472 (10100223)   488320.59
 3617850.48   134.32091 (10100223)
        488370.59   3617850.48   180.68623 (10100223)   488420.59
 3617850.48   181.42869 (10031321)
        488470.59   3617850.48   184.70587 (10031321)   488520.59
 3617850.48   179.24807 (10031321)
        488570.59   3617850.48   164.71696 (10031321)   488620.59
 3617850.48   142.63102 (10031321)
        485870.59   3617900.48   36.46331 (10020321)   485920.59
 3617900.48   47.75095 (10020321)
        485970.59   3617900.48   50.28782 (10011620)   486020.59

3617900.48 71.32519 (10011620)
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3617900.48 92.76804 (10011620)
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486520.59 3617900.48 75.94380 (10102819) 486570.59
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3617900.48 51.72386 (10092724)
486720.59 3617900.48 43.63192 (10092724) 486770.59
3617900.48 41.33680 (10092724)
486820.59 3617900.48 38.98311 (10092724) 486870.59
3617900.48 39.37060 (10092724)
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3617900.48 32.75294 (10120309)
487020.59 3617900.48 33.39649 (10120309) 487070.59
3617900.48 33.70676 (10120309)
487120.59 3617900.48 33.77792 (10120309) 487170.59
3617900.48 33.57522 (10120309)
487220.59 3617900.48 32.91740 (10120309) 487270.59
3617900.48 31.42302 (10120309)
487320.59 3617900.48 29.85531 (10010909) 487370.59
3617900.48 30.85467 (10010909)
487420.59 3617900.48 32.06795 (10010909) 487470.59
3617900.48 33.15164 (10010909)
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3617900.48 32.84493 (10010909)
487620.59 3617900.48 30.62407 (10010909) 487670.59
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3617900.48 23.43601 (10120809)
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3617900.48 101.71902 (10071502)
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3617900.48 91.75691 (10100223)
488320.59 3617900.48 96.94339 (10100223) 488370.59
3617900.48 199.08650 (10100223)
488420.59 3617900.48 179.26662 (10100223) 488470.59
3617900.48 178.94931 (10031321)
488520.59 3617900.48 180.64309 (10031321) 488570.59
3617900.48 175.40409 (10031321)
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3617950.48 45.28225 (10020321)
485920.59 3617950.48 47.58051 (10020321) 485970.59

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
486570.59	3617950.48	62.22072	(10092724)	486620.59	3617950.48	57.58637	(10092724)
486670.59	3617950.48	46.78007	(10092724)	486720.59	3617950.48	40.34544	(10092724)
486770.59	3617950.48	36.95714	(10092724)	486820.59	3617950.48	42.73874	(10092724)
486870.59	3617950.48	35.65543	(10011717)	486920.59	3617950.48	30.62122	(10011717)
486970.59	3617950.48	32.21194	(10120309)	487020.59	3617950.48	33.11806	(10120309)

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       487070.59   3617950.48       33.49346  (10120309)               487120.59
3617950.48       33.57341  (10120309)
       487170.59   3617950.48       33.33248  (10120309)               487220.59
3617950.48       32.59251  (10120309)
       487270.59   3617950.48       31.07443  (10120309)               487320.59
3617950.48       29.58488  (10010909)
       487370.59   3617950.48       30.52199  (10010909)               487420.59
3617950.48       31.64143  (10010909)
       487470.59   3617950.48       32.68959  (10010909)               487520.59
3617950.48       33.21209  (10010909)
       487570.59   3617950.48       32.71787  (10010909)               487620.59
3617950.48       30.86606  (10010909)
       487670.59   3617950.48       28.76834  (10120809)               487720.59
3617950.48       27.06840  (10120809)
       487770.59   3617950.48       24.24998  (10120809)               487820.59
3617950.48       20.61517  (10120809)
       487870.59   3617950.48       23.89573  (10121820)               487920.59
3617950.48       36.43410  (10100103)
       487970.59   3617950.48       49.64493  (10093003)               488020.59
3617950.48       70.48480  (10093003)
       488070.59   3617950.48       88.09464  (10093003)               488120.59
3617950.48       82.25863  (10041721)
       488170.59   3617950.48       65.78577  (10041721)               488220.59
3617950.48       51.41904  (10041721)
       488270.59   3617950.48       56.16400  (10032602)               488320.59
3617950.48       99.81443  (10100223)
       488370.59   3617950.48      181.44778  (10100223)               488420.59
3617950.48      184.44167  (10100223)
       488470.59   3617950.48      174.26916  (10100223)               488520.59
3617950.48      174.08021  (10031321)
       488570.59   3617950.48      176.73580  (10031321)               488620.59
3617950.48      171.70699  (10031321)
       487840.14   3615798.03       81.46097  (10121005)               487890.14
3615798.03       81.54075  (10121005)
       487940.14   3615798.03       78.30410  (10121005)               487990.14
3615798.03       72.59108  (10121005)
       488240.14   3615798.03       50.81536  (10051223)               488290.14
3615798.03       53.48177  (10051223)
       488340.14   3615798.03       54.91103  (10051223)               488390.14
3615798.03       55.04513  (10051223)
       488440.14   3615798.03       53.91420  (10051223)               488490.14
3615798.03       51.81496  (10051223)
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3615798.03       50.34911  (10051222)
       487940.14   3615848.03       76.94441  (10121005)               487990.14
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       488040.14   3615848.03       60.64740  (10121005)               488190.14
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       488240.14   3615848.03       57.56607  (10051223)               488290.14
3615848.03       58.44170  (10051223)
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       488340.14   3615848.03       57.97794  (10051223)               488390.14
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 3615898.03       61.87888  (10051223)
       488240.14   3615898.03       62.11489  (10051223)               488290.14
 3615898.03       60.89644  (10051223)
       488340.14   3615898.03       58.48205  (10051223)               488390.14
 3615898.03       56.18151  (10051222)
       488440.14   3615898.03       60.15297  (10051222)               488490.14
 3615898.03       63.32994  (10051222)
       488540.14   3615898.03       65.58571  (10051222)               488590.14
 3615898.03       66.89231  (10051222)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE 215
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       487690.14   3615948.03       95.61486  (10121005)               487740.14
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3615948.03 97.14697 (10121005)
487790.14 3615948.03 94.03177 (10121005) 488090.14
3615948.03 65.17460 (10051223)
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3615948.03 65.82563 (10051223)
488240.14 3615948.03 63.64528 (10051223) 488290.14
3615948.03 60.47289 (10051223)
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3615948.03 67.62103 (10051222)
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3616048.03 103.78342 (10051222)
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3616048.03 83.20041 (10051222)
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487940.14 3616098.03 82.45436 (10051223) 487990.14

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       488140.14   3616098.03      108.59102  (10051222)               488190.14
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       488240.14   3616098.03      113.81314  (10051222)               488290.14
 3616098.03      108.54073  (10051222)
       488340.14   3616098.03       88.15979  (10051222)               488390.14
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       488440.14   3616098.03       80.93434  (10051222)               488490.14
 3616098.03       75.95375  (10051222)
       488540.14   3616098.03       83.26429  (10120220)               488590.14
 3616098.03       86.69856  (10120220)
       487540.14   3616148.03      128.56866  (10121005)               487590.14
 3616148.03      126.43743  (10121005)
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       487940.14   3616148.03       86.40004  (10051222)               487990.14
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 3616148.03       97.83478  (10051222)
       488140.14   3616148.03      119.84691  (10051222)               488190.14
 3616148.03      119.68349  (10051222)
       488240.14   3616148.03      114.32861  (10051222)               488290.14
 3616148.03      104.77670  (10051222)
       488340.14   3616148.03       87.75505  (10051222)               488390.14
 3616148.03       82.21959  (10051222)
       488440.14   3616148.03       78.60718  (10120220)               488490.14
 3616148.03       93.57303  (10120220)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                         ***        11:59:01

                                    PAGE 216
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
488540.14	3616148.03	94.82840	(10120220)	488590.14	3616148.03	93.67933	(10120220)
487590.14	3616198.03	128.12229	(10121005)	487640.14	3616198.03	113.58564	(10121005)
487690.14	3616198.03	97.85857	(10121005)	487740.14	3616198.03	97.35324	(10051223)
487990.14	3616198.03	108.06141	(10051222)	488040.14	3616198.03	107.96619	(10051222)
488090.14	3616198.03	106.93301	(10051222)	488140.14	3616198.03	121.01152	(10051222)
488190.14	3616198.03	115.57917	(10051222)	488240.14	3616198.03	106.02229	(10051222)
488290.14	3616198.03	101.13346	(10120220)	488340.14	3616198.03	87.49212	(10120220)
488390.14	3616198.03	88.18642	(10120220)	488440.14	3616198.03	100.79470	(10120220)
488490.14	3616198.03	100.46363	(10120220)	488540.14	3616198.03	97.31087	(10120220)
488590.14	3616198.03	93.27158	(10120220)	487690.14	3616248.03	108.50715	(10051223)
487740.14	3616248.03	106.44467	(10051223)	487790.14	3616248.03	111.16474	(10051222)
487840.14	3616248.03	117.20144	(10051222)	487940.14	3616248.03	119.84233	(10051222)
487990.14	3616248.03	117.48974	(10051222)	488040.14	3616248.03	114.62760	(10051222)
488090.14	3616248.03	110.28547	(10051222)	488140.14	3616248.03	113.20075	(10051222)
488190.14	3616248.03	113.42355	(10120220)	488240.14	3616248.03	114.81429	(10120220)
488290.14	3616248.03	112.42559	(10120220)	488340.14	3616248.03	96.71790	(10120220)
488390.14	3616248.03	94.99066	(10120220)	488440.14	3616248.03	103.24709	(10120220)
488490.14	3616248.03	98.14670	(10120220)	488540.14	3616248.03	92.38049	(10120220)
488590.14	3616248.03	86.15107	(10120220)	487690.14	3616298.03	126.67739	(10051222)
487740.14	3616298.03	130.08869	(10051222)	487790.14	3616298.03	131.77007	(10051222)
487840.14	3616298.03	132.13173	(10051222)	487890.14	3616298.03	131.26334	(10051222)

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 3616298.03      108.54020  (10120220)
       488140.14   3616298.03      123.87683  (10120220)                488190.14
 3616298.03      124.07163  (10120220)
       488240.14   3616298.03      121.04720  (10120220)                488290.14
 3616298.03      114.55445  (10120220)
       488340.14   3616298.03      100.08566  (10120220)                488390.14
 3616298.03      102.33231  (10120220)
       488440.14   3616298.03       96.20310  (10120220)                488490.14
 3616298.03       88.91442  (10120220)
       488540.14   3616298.03       81.44525  (10120220)                488590.14
 3616298.03       73.98518  (10120220)
       487690.14   3616348.03      149.32916  (10051222)                487740.14
 3616348.03      147.88923  (10051222)
       487790.14   3616348.03      145.09736  (10051222)                487840.14
 3616348.03      140.59352  (10051222)
       487890.14   3616348.03      134.70568  (10051222)                487940.14
 3616348.03      127.51058  (10051222)
       487990.14   3616348.03      122.31188  (10120220)                488040.14
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 3616348.03      128.27820  (10120220)
       488190.14   3616348.03      124.24052  (10120220)                488240.14
 3616348.03      117.15153  (10120220)
       488290.14   3616348.03      108.28036  (10120220)                488340.14
 3616348.03      100.10325  (10120220)
       488390.14   3616348.03       91.60331  (10120220)                488440.14
 3616348.03       83.03089  (10120220)
       488490.14   3616348.03       74.60476  (10120220)                488540.14
 3616348.03       66.50319  (10120220)
       488590.14   3616348.03       58.85919  (10120220)                487640.14
 3616398.03      169.06431  (10051222)
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       487790.14   3616398.03      150.57985  (10051222)                487840.14
 3616398.03      142.23161  (10051222)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE 217
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
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                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        487890.14   3616398.03      138.15108  (10120220)               487940.14
 3616398.03      136.13931  (10120220)
        487990.14   3616398.03      133.22229  (10120220)               488040.14
 3616398.03      129.24811  (10120220)
        488090.14   3616398.03      124.09429  (10120220)               488140.14
 3616398.03      123.06872  (10120220)
        488190.14   3616398.03      114.53556  (10120220)               488240.14
 3616398.03      104.33525  (10120220)
        488290.14   3616398.03       94.31825  (10120220)               488340.14
 3616398.03       84.43171  (10120220)
        488390.14   3616398.03       74.87307  (10120220)               488440.14
 3616398.03       65.84558  (10120220)
        488490.14   3616398.03       58.51660  (10051221)               488540.14
 3616398.03       57.19853  (10051221)
        488590.14   3616398.03       55.67637  (10051221)               487590.14
 3616448.03      191.24308  (10051222)
        487640.14   3616448.03      180.31873  (10051222)               487690.14
 3616448.03      170.32490  (10051222)
        487740.14   3616448.03      160.07695  (10051222)               487790.14
 3616448.03      156.66685  (10120220)
        487840.14   3616448.03      153.09181  (10120220)               487890.14
 3616448.03      148.77669  (10120220)
        487940.14   3616448.03      143.37145  (10120220)               487990.14
 3616448.03      136.58634  (10120220)
        488040.14   3616448.03      128.37444  (10120220)               488090.14
 3616448.03      118.94471  (10120220)
        488140.14   3616448.03      108.90078  (10120220)               488190.14
 3616448.03       96.35039  (10120220)
        488240.14   3616448.03       85.11051  (10120220)               488290.14
 3616448.03       73.42886  (10120220)
        488340.14   3616448.03       66.19313  (10051221)               488390.14
 3616448.03       63.55696  (10051221)
        488440.14   3616448.03       61.37939  (10051221)               488490.14
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 3616448.03       59.02246  (10051221)
       488540.14   3616448.03       56.52615  (10051221)                488590.14
 3616448.03       54.27541  (10051221)
       487540.14   3616498.03      213.72043  (10051222)                487590.14
 3616498.03      199.11221  (10051222)
       487640.14   3616498.03      184.47254  (10120220)                487690.14
 3616498.03      178.94316  (10120220)
       487740.14   3616498.03      173.30443  (10120220)                487790.14
 3616498.03      167.34811  (10120220)
       487840.14   3616498.03      160.33112  (10120220)                487890.14
 3616498.03      151.56409  (10120220)
       487940.14   3616498.03      140.87344  (10120220)                487990.14
 3616498.03      128.61976  (10120220)
       488040.14   3616498.03      115.45833  (10120220)                488090.14
 3616498.03      100.72651  (10120220)
       488140.14   3616498.03       86.37731  (10120220)                488190.14
 3616498.03       76.53898  (10082222)
       488240.14   3616498.03       71.41456  (10051221)                488290.14
 3616498.03       68.26285  (10051221)
       488340.14   3616498.03       64.99607  (10051221)                488390.14
 3616498.03       61.55974  (10051221)
       488440.14   3616498.03       58.01710  (10051221)                488490.14
 3616498.03       54.40000  (10051221)
       488540.14   3616498.03       51.06767  (10051221)                488590.14
 3616498.03       47.66596  (10051221)
       484613.02   3614429.89       12.70971  (10102808)                484663.02
 3614429.89       13.15808  (10102808)
       484713.02   3614429.89       13.51333  (10102808)                484763.02
 3614429.89       13.78005  (10102808)
       484813.02   3614429.89       13.94861  (10102808)                484863.02
 3614429.89       14.01081  (10102808)
       484913.02   3614429.89       13.74955  (10102808)                484963.02
 3614429.89       13.53660  (10102808)
       484563.02   3614479.89       11.76172  (10102808)                484613.02
 3614479.89       12.33774  (10102808)
       484663.02   3614479.89       12.85162  (10102808)                484713.02
 3614479.89       13.29782  (10102808)
       484763.02   3614479.89       13.66457  (10102808)                484813.02
 3614479.89       13.94076  (10102808)
       484863.02   3614479.89       14.11626  (10102808)                484913.02
 3614479.89       14.01802  (10102808)
       484963.02   3614479.89       13.86772  (10102808)                484513.02
 3614529.89       10.57412  (10102808)
       484563.02   3614529.89       11.23790  (10102808)                484613.02
 3614529.89       11.86651  (10102808)
       484663.02   3614529.89       12.45131  (10102808)                484713.02
 3614529.89       12.97985  (10102808)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484763.02	3614529.89	13.43962	(10102808)	484813.02	3614529.89	13.81838	(10102808)
484863.02	3614529.89	14.10452	(10102808)	484913.02	3614529.89	14.12746	(10102808)
484963.02	3614529.89	14.09138	(10102808)	484463.02	3614579.89	9.81469	(10101107)
484513.02	3614579.89	9.94880	(10102808)	484563.02	3614579.89	10.64466	(10102808)
484613.02	3614579.89	11.32079	(10102808)	484663.02	3614579.89	11.96537	(10102808)
484713.02	3614579.89	12.56592	(10102808)	484763.02	3614579.89	13.10959	(10102808)
484813.02	3614579.89	13.58345	(10102808)	484863.02	3614579.89	13.97476	(10102808)
484913.02	3614579.89	14.17207	(10102808)	484963.02	3614579.89	14.20051	(10102808)
484413.02	3614629.89	9.77291	(10101107)	484463.02	3614629.89	9.88490	(10101107)
484513.02	3614629.89	10.03220	(10101107)	484563.02	3614629.89	10.18204	(10101107)
484613.02	3614629.89	10.71153	(10102808)	484663.02	3614629.89	11.40381	(10102808)
484713.02	3614629.89	12.06474	(10102808)	484763.02	3614629.89	12.68149	(10102808)

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       484813.02   3614629.89       13.24081  (10102808)               484863.02
3614629.89       13.72928  (10102808)
       484913.02   3614629.89       14.10874  (10102808)               484963.02
3614629.89       14.21375  (10102808)
       484413.02   3614679.89        9.86054  (10101107)               484463.02
3614679.89       10.00258  (10101107)
       484513.02   3614679.89       10.15428  (10101107)               484563.02
3614679.89       10.30870  (10101107)
       484613.02   3614679.89       10.46585  (10101107)               484663.02
3614679.89       10.77812  (10102808)
       484713.02   3614679.89       11.48689  (10102808)               484763.02
3614679.89       12.16457  (10102808)
       484813.02   3614679.89       12.79797  (10102808)               484863.02
3614679.89       13.37342  (10102808)
       484913.02   3614679.89       13.87706  (10102808)               484963.02
3614679.89       14.20570  (10102808)
       484363.02   3614729.89        9.81708  (10101107)               484413.02
3614729.89        9.96754  (10101107)
       484463.02   3614729.89       10.12085  (10101107)               484513.02
3614729.89       10.27706  (10101107)
       484563.02   3614729.89       10.43617  (10101107)               484613.02
3614729.89       10.59820  (10101107)
       484663.02   3614729.89       10.76317  (10101107)               484713.02
3614729.89       10.93107  (10101107)
       484763.02   3614729.89       11.56997  (10102808)               484813.02
3614729.89       12.26478  (10102808)
       484863.02   3614729.89       12.91527  (10102808)               484913.02
3614729.89       13.50735  (10102808)
       484963.02   3614729.89       13.94915  (10102808)               484313.02
3614779.89        9.89483  (10122309)
       484363.02   3614779.89        9.92721  (10101107)               484413.02
3614779.89       10.08190  (10101107)
       484463.02   3614779.89       10.23963  (10101107)               484513.02
3614779.89       10.40044  (10101107)
       484563.02   3614779.89       10.56436  (10101107)               484613.02
3614779.89       10.73140  (10101107)
       484663.02   3614779.89       10.90159  (10101107)               484713.02
3614779.89       11.07493  (10101107)
       484763.02   3614779.89       11.25144  (10101107)               484813.02
3614779.89       11.65297  (10102808)
       484863.02   3614779.89       12.36529  (10102808)               484913.02
3614779.89       13.03330  (10102808)
       484963.02   3614779.89       13.57822  (10102808)               484263.02
3614829.89       11.84968  (10122309)
       484313.02   3614829.89       11.19732  (10122309)               484363.02
3614829.89       10.51827  (10122309)
       484413.02   3614829.89       10.19658  (10101107)               484463.02
3614829.89       10.35882  (10101107)
       484513.02   3614829.89       10.52434  (10101107)               484563.02
3614829.89       10.69316  (10101107)
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484913.02	3614829.89	12.46600	(10102808)	484963.02	3614829.89	13.02129	(10102808)
484213.02	3614879.89	13.69548	(10122309)	484263.02	3614879.89	13.12384	(10122309)
484313.02	3614879.89	12.50857	(10122309)	484363.02	3614879.89	11.85533	(10122309)
484413.02	3614879.89	11.17047	(10122309)	484463.02	3614879.89	10.47831	(10101107)
484513.02	3614879.89	10.64863	(10101107)	484563.02	3614879.89	10.82248	(10101107)
484613.02	3614879.89	10.99990	(10101107)	484663.02	3614879.89	11.18093	(10101107)
484713.02	3614879.89	11.36559	(10101107)	484763.02	3614879.89	11.55391	(10101107)
484813.02	3614879.89	11.74592	(10101107)	484863.02			

3614879.89 11.94160 (10101107)
484913.02 3614879.89 12.14098 (10101107) 484963.02
3614879.89 12.57462 (10101107)
484163.02 3614929.89 15.23484 (10122309) 484213.02
3614929.89 14.84152 (10122309)
484263.02 3614929.89 14.34221 (10122309) 484313.02
3614929.89 13.78849 (10122309)
484363.02 3614929.89 13.18489 (10122309) 484413.02
3614929.89 12.53680 (10122309)
484463.02 3614929.89 11.85045 (10122309) 484513.02
3614929.89 11.13280 (10122309)
484563.02 3614929.89 10.95219 (10101107) 484613.02
3614929.89 11.13497 (10101107)
484663.02 3614929.89 11.32161 (10101107) 484713.02
3614929.89 11.51215 (10101107)
484763.02 3614929.89 11.70662 (10101107) 484813.02
3614929.89 11.90504 (10101107)
484863.02 3614929.89 12.10745 (10101107) 484913.02
3614929.89 12.31385 (10101107)
484963.02 3614929.89 12.55410 (10101107) 485013.02
3614929.89 12.98933 (10101107)
484113.02 3614979.89 16.45961 (10122309) 484163.02
3614979.89 16.21023 (10122309)
484213.02 3614979.89 15.86949 (10122309) 484263.02
3614979.89 15.46318 (10122309)
484313.02 3614979.89 14.99346 (10122309) 484363.02
3614979.89 14.46341 (10122309)
484413.02 3614979.89 13.87710 (10122309) 484463.02
3614979.89 13.23955 (10122309)
484513.02 3614979.89 12.55670 (10122309) 484563.02
3614979.89 11.83539 (10122309)
484613.02 3614979.89 11.27042 (10101107) 484663.02
3614979.89 11.46280 (10101107)
484713.02 3614979.89 11.65935 (10101107) 484763.02
3614979.89 11.86011 (10101107)
484813.02 3614979.89 12.06513 (10101107) 484863.02
3614979.89 12.27445 (10101107)
484913.02 3614979.89 12.48808 (10101107) 484963.02
3614979.89 12.73640 (10101107)
485013.02 3614979.89 13.18191 (10101107) 484113.02
3615029.89 17.11939 (10122309)
484163.02 3615029.89 16.96456 (10122309) 484213.02
3615029.89 16.73962 (10122309)
484263.02 3615029.89 16.44418 (10122309) 484313.02
3615029.89 16.07875 (10122309)
484363.02 3615029.89 15.64475 (10122309) 484413.02
3615029.89 15.14460 (10122309)
484463.02 3615029.89 14.58176 (10122309) 484513.02
3615029.89 13.96074 (10122309)
484563.02 3615029.89 13.28707 (10122309) 484613.02

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
484363.02	3615079.89	16.68282	(10122309)	484413.02	3615079.89	16.29097	(10122309)
484463.02	3615079.89	15.82735	(10122309)	484513.02	3615079.89	15.29468	(10122309)
484563.02	3615079.89	14.69681	(10122309)	484613.02	3615079.89	14.03874	(10122309)

484663.02 3615079.89 13.32662 (10122309) 484713.02 3615079.89 12.56773 (10122309)
484763.02 3615079.89 12.16887 (10101107) 484813.02 3615079.89 12.38758 (10101107)
484863.02 3615079.89 12.61125 (10101107) 484913.02 3615079.89 12.83995 (10101107)
484963.02 3615079.89 13.07371 (10101107) 485013.02 3615079.89 13.31259 (10101107)
485063.02 3615079.89 13.65100 (10101107) 485113.02 3615079.89 14.04210 (10101107)
484113.02 3615129.89 17.73419 (10122309) 484163.02 3615129.89 17.83659 (10122309)
484213.02 3615129.89 17.87093 (10122309) 484263.02 3615129.89 17.83379 (10122309)
484313.02 3615129.89 17.72239 (10122309) 484363.02 3615129.89 17.53468 (10122309)
484413.02 3615129.89 17.26942 (10122309) 484463.02 3615129.89 16.92636 (10122309)
484513.02 3615129.89 16.50622 (10122309) 484563.02 3615129.89 16.01089 (10122309)
484613.02 3615129.89 15.44340 (10122309) 484663.02 3615129.89 14.80804 (10122309)
484713.02 3615129.89 14.11037 (10122309) 484763.02 3615129.89 13.35723 (10122309)
484813.02 3615129.89 12.55668 (10122309) 484863.02 3615129.89 12.78070 (10101107)
484913.02 3615129.89 13.01722 (10101107) 484963.02 3615129.89 13.25922 (10101107)
485013.02 3615129.89 13.50675 (10101107) 485063.02 3615129.89 13.75985 (10101107)
485113.02 3615129.89 14.10732 (10101107) 485163.02 3615129.89 14.54010 (10101107)
484113.02 3615179.89 17.68575 (10122309) 484163.02 3615179.89 17.91576 (10122309)
484213.02 3615179.89 18.08294 (10122309) 484263.02 3615179.89 18.18264 (10122309)
484313.02 3615179.89 18.21067 (10122309) 484363.02 3615179.89 18.16341 (10122309)
484413.02 3615179.89 18.03790 (10122309) 484463.02 3615179.89 17.83201 (10122309)
484513.02 3615179.89 17.54446 (10122309) 484563.02 3615179.89 17.17503 (10122309)
484613.02 3615179.89 16.72459 (10122309) 484663.02 3615179.89 16.19526 (10122309)
484713.02 3615179.89 15.59043 (10122309) 484763.02 3615179.89 14.91489 (10122309)
484813.02 3615179.89 14.17481 (10122309) 484863.02 3615179.89 13.37781 (10122309)
484913.02 3615179.89 13.19512 (10101107) 484963.02 3615179.89 13.44556 (10101107)

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       485013.02   3615179.89       13.70199  (10101107)               485063.02
 3615179.89       13.96445  (10101107)
       485113.02   3615179.89       14.23301  (10101107)               485163.02
 3615179.89       14.61632  (10101107)
       485213.02   3615179.89       15.06689  (10101107)               484113.02
 3615229.89       17.39733  (10122309)
       484163.02   3615229.89       17.74734  (10122309)               484213.02
 3615229.89       18.04213  (10122309)
       484263.02   3615229.89       18.26131  (10122309)               484313.02
 3615229.89       18.42615  (10122309)
       484363.02   3615229.89       18.32817  (10122309)               484413.02
 3615229.89       18.34967  (10122309)
       484463.02   3615229.89       18.29413  (10122309)               484513.02
 3615229.89       18.15854  (10122309)
       484563.02   3615229.89       17.94075  (10122309)               484613.02
 3615229.89       17.67355  (10122309)
       484663.02   3615229.89       17.29773  (10122309)               484713.02
 3615229.89       16.91401  (10122309)
       484763.02   3615229.89       16.37426  (10122309)               484813.02
 3615229.89       15.73543  (10122309)
       484863.02   3615229.89       15.01670  (10122309)               484913.02
 3615229.89       14.23110  (10122309)
       484963.02   3615229.89       13.63250  (10101107)               485013.02
 3615229.89       13.89805  (10101107)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                        ***        11:59:01

                                   PAGE 221
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                 HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                 HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                 HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
 , HAUL0027    , HAUL0028    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)        CONC     (YYMMDDHH)
 - - -
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 3615379.89       19.27265  (10122309)
       484863.02   3615379.89       19.11352  (10122309)                484913.02
 3615379.89       18.72402  (10122309)
       484963.02   3615379.89       18.22876  (10122309)                485013.02
 3615379.89       17.63285  (10122309)
       485063.02   3615379.89       16.93950  (10122309)                485113.02
 3615379.89       16.15398  (10122309)
       485163.02   3615379.89       15.42117  (10101107)                485213.02
 3615379.89       15.74929  (10101107)
       485263.02   3615379.89       16.08626  (10101107)                485313.02
 3615379.89       16.43219  (10101107)
       485363.02   3615379.89       16.78715  (10101107)                485413.02
 3615379.89       17.18667  (10101107)
       484763.02   3615429.89       19.72380  (10122309)                484813.02
 3615429.89       19.93755  (10122309)
       484863.02   3615429.89       19.86224  (10122309)                484913.02
 3615429.89       19.78331  (10122309)
       484963.02   3615429.89       19.46696  (10122309)                485013.02
 3615429.89       19.04259  (10122309)
       485063.02   3615429.89       18.50981  (10122309)                485113.02
 3615429.89       17.87006  (10122309)
       485163.02   3615429.89       17.12688  (10122309)                485213.02
 3615429.89       16.33204  (10012006)
       485263.02   3615429.89       16.34265  (10101107)                485313.02
 3615429.89       16.70289  (10101107)
       485363.02   3615429.89       17.07307  (10101107)                485413.02
 3615429.89       17.45329  (10101107)
       485463.02   3615429.89       17.89580  (10101107)                485513.02
 3615429.89       18.62660  (10101107)
       484813.02   3615479.89       20.06310  (10122309)                484863.02
 3615479.89       20.27883  (10122309)
       484913.02   3615479.89       20.48854  (10122309)                484963.02
 3615479.89       20.40319  (10122309)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 222
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     HAUL0001    , HAUL0002
 , HAUL0003    , HAUL0004    , HAUL0005    ,
                HAUL0006    , HAUL0007    , HAUL0008    , HAUL0009    , HAUL0010
 , HAUL0011    , HAUL0012    , HAUL0013    ,
                HAUL0014    , HAUL0015    , HAUL0016    , HAUL0017    , HAUL0018
 , HAUL0019    , HAUL0020    , HAUL0021    ,
                HAUL0022    , HAUL0023    , HAUL0024    , HAUL0025    , HAUL0026
```

, HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
485013.02	3615479.89	20.17322	(10122309)	485063.02	3615479.89	19.83055	(10122309)
485113.02	3615479.89	19.37286	(10122309)	485163.02	3615479.89	18.79958	(10122309)
485213.02	3615479.89	18.11219	(10122309)	485263.02	3615479.89	17.34036	(10012006)
485313.02	3615479.89	17.11967	(10012006)	485363.02	3615479.89	17.36053	(10101107)
485413.02	3615479.89	17.75746	(10101107)	485463.02	3615479.89	18.16559	(10101107)
485513.02	3615479.89	18.99628	(10101107)	485563.02	3615479.89	19.15315	(10101107)
484863.02	3615529.89	20.23957	(10122309)	484913.02	3615529.89	20.63588	(10122309)
484963.02	3615529.89	20.97450	(10122309)	485013.02	3615529.89	20.96545	(10122309)
485063.02	3615529.89	20.83078	(10122309)	485113.02	3615529.89	20.58033	(10122309)
485163.02	3615529.89	20.20980	(10122309)	485213.02	3615529.89	19.71640	(10122309)
485263.02	3615529.89	19.09925	(10122309)	485313.02	3615529.89	18.38416	(10012006)
485363.02	3615529.89	18.23800	(10012006)	485413.02	3615529.89	18.06318	(10101107)
485463.02	3615529.89	18.48972	(10101107)	485513.02	3615529.89	19.34311	(10101107)
484913.02	3615579.89	20.46271	(10122309)	484963.02	3615579.89	20.93235	(10122309)
485013.02	3615579.89	21.25502	(10122309)	485063.02	3615579.89	21.33110	(10122309)
485113.02	3615579.89	21.42690	(10122309)	485163.02	3615579.89	21.27854	(10122309)
485213.02	3615579.89	21.00694	(10122309)	485263.02	3615579.89	20.60698	(10122309)
485313.02	3615579.89	20.07518	(10122309)	485363.02	3615579.89	19.45832	(10012006)
485413.02	3615579.89	19.40156	(10012006)	485463.02	3615579.89	19.21862	(10012006)

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       484963.02   3615629.89       20.58217  (10122309)               485013.02
 3615629.89       21.14478  (10122309)
       485063.02   3615629.89       21.52698  (10122309)               485113.02
 3615629.89       21.70715  (10122309)
       485163.02   3615629.89       21.86146  (10122309)               485213.02
 3615629.89       21.91088  (10122309)
       485263.02   3615629.89       21.74919  (10122309)               485313.02
 3615629.89       21.45593  (10122309)
       485363.02   3615629.89       21.02487  (10122309)               485413.02
 3615629.89       20.55750  (10012006)
       485013.02   3615679.89       20.60379  (10122309)               485063.02
 3615679.89       21.26559  (10122309)
       485113.02   3615679.89       21.74438  (10122309)               485163.02
 3615679.89       22.03216  (10122309)
       485213.02   3615679.89       22.29195  (10122309)               485263.02
 3615679.89       22.46256  (10122309)
       485313.02   3615679.89       22.42042  (10122309)               485363.02
 3615679.89       22.14312  (10122309)
       485413.02   3615679.89       21.68292  (10122309)               485063.02
 3615729.89       20.55920  (10122309)
       485113.02   3615729.89       21.16764  (10122309)               485163.02
 3615729.89       21.83351  (10122309)
       485213.02   3615729.89       22.25768  (10122309)               485263.02
 3615729.89       22.59547  (10122309)
       485313.02   3615729.89       22.79313  (10122309)               485363.02
 3615729.89       22.53601  (10122309)
       485113.02   3615779.89       20.38803  (10122309)               485163.02
 3615779.89       21.08449  (10122309)
       485213.02   3615779.89       21.77797  (10122309)               485263.02
 3615779.89       22.28739  (10122309)
       485313.02   3615779.89       22.49381  (10122309)               485163.02
 3615829.89       20.13415  (10122309)
       485213.02   3615829.89       20.84737  (10122309)               485263.02
 3615829.89       21.50367  (10122309)
       485213.02   3615879.89       19.98244  (10122322)               485552.29
 3616096.26       26.84604  (10122322)
       486018.22   3615677.92       26.39158  (10111518)               486003.19
 3616494.55       42.12755  (10021802)
       486759.70   3615938.44       50.13343  (10111518)               486118.42
 3616108.78       38.70109  (10012006)
       486519.22   3615657.88       34.23820  (10111518)               487082.35
 3618053.22       33.12691  (10120309)
 *** AERMOD - VERSION 21112  ***   *** C:\Users\chris.lovett\OneDrive - Ascent
Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 223
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): HAUL0001 , HAUL0002 , HAUL0003 , HAUL0004 , HAUL0005 , HAUL0006 , HAUL0007 , HAUL0008 , HAUL0009 , HAUL0010 , HAUL0011 , HAUL0012 , HAUL0013 , HAUL0014 , HAUL0015 , HAUL0016 , HAUL0017 , HAUL0018 , HAUL0019 , HAUL0020 , HAUL0021 , HAUL0022 , HAUL0023 , HAUL0024 , HAUL0025 , HAUL0026 , HAUL0027 , HAUL0028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
487132.24	3618053.22	33.10430	(10120309)	487182.13	3618053.22	32.67194	(10120309)
487232.02	3618053.22	31.68253	(10120309)	487281.91	3618053.22	29.90200	(10120309)
486424.80	3617998.65	85.93277	(10121318)	486474.69	3617998.65	74.21181	(10102819)
486524.58	3617998.65	69.46101	(10092724)	486574.47	3617998.65	61.34931	(10092724)
486624.36	3617998.65	53.69913	(10092724)	486674.25	3617998.65	47.87622	(10092724)
486724.14	3617998.65	38.94341	(10092724)	486774.03	3617998.65	32.01370	(10011717)
486823.92	3617998.65	30.47324	(10011717)	486873.81	3617998.65	27.57473	(10120309)
486923.70	3617998.65	30.21251	(10120309)	486973.59	3617998.65	31.95826	(10120309)
487023.48	3617998.65	32.90732	(10120309)	487082.35	3618103.22	32.92290	(10120309)
487132.24	3618103.22	32.90769	(10120309)	487182.13	3618103.22	32.43495	(10120309)
486374.91	3618048.65	87.26291	(10121318)	486424.80	3618048.65	77.07174	(10121318)
486474.69	3618048.65	69.02224	(10102819)	486524.58	3618048.65	65.52887	(10092724)
486574.47	3618048.65	61.91263	(10092724)	486624.36	3618048.65	56.81786	(10092724)
486674.25	3618048.65	50.73014	(10092724)	486724.14	3618048.65	39.09976	(10092724)
486774.03	3618048.65	31.02253	(10011717)	486823.92			

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3618048.65       26.13269  (10011717)
       486873.81   3618048.65       27.16772  (10120309)                 486923.70
3618048.65       29.85787  (10120309)
       486973.59   3618048.65       31.66140  (10120309)                 487023.48
3618048.65       32.66070  (10120309)
       487082.35   3618153.22       32.72434  (10120309)                 487132.24
3618153.22       32.69114  (10120309)
       486325.02   3618098.65       86.65631  (10121318)                 486374.91
3618098.65       78.54166  (10121318)
       486424.80   3618098.65       68.12473  (10102819)                 486474.69
3618098.65       63.69003  (10092724)
       486524.58   3618098.65       61.76467  (10092724)                 486574.47
3618098.65       57.37418  (10092724)
       486624.36   3618098.65       51.52676  (10092724)                 486674.25
3618098.65       46.98740  (10092724)
       486724.14   3618098.65       42.40223  (10092724)                 486774.03
3618098.65       30.57361  (10011717)
       486823.92   3618098.65       25.86063  (10011717)                 486873.81
3618098.65       26.87216  (10120309)
       486923.70   3618098.65       29.53072  (10120309)                 486973.59
3618098.65       31.35755  (10120309)
       487023.48   3618098.65       32.41806  (10120309)                 487082.35
3618203.22       32.50278  (10120309)
       486275.13   3618148.65       83.02291  (10121318)                 486325.02
3618148.65       79.33153  (10121318)
       486374.91   3618148.65       69.44003  (10121318)                 486424.80
3618148.65       62.74797  (10102819)
       486474.69   3618148.65       60.48058  (10092724)                 486524.58
3618148.65       58.20986  (10092724)
       486574.47   3618148.65       55.36598  (10092724)                 486624.36
3618148.65       53.91310  (10092724)
       486674.25   3618148.65       51.24909  (10092724)                 486724.14
3618148.65       44.80820  (10092724)
       486774.03   3618148.65       31.93469  (10011717)                 486823.92
3618148.65       27.38459  (10011717)
       486873.81   3618148.65       26.57498  (10120309)                 486923.70
3618148.65       29.22046  (10120309)
       486973.59   3618148.65       31.06247  (10120309)                 487023.48
3618148.65       32.16068  (10120309)
       486225.24   3618198.65       85.70058  (10121318)                 486275.13
3618198.65       80.82959  (10121318)
       486325.02   3618198.65       67.94331  (10121318)                 486374.91
3618198.65       58.87353  (10121318)
       486424.80   3618198.65       55.56473  (10092724)                 486474.69
3618198.65       57.05771  (10092724)
       486524.58   3618198.65       55.99813  (10092724)                 486574.47
3618198.65       55.75200  (10092724)
       486624.36   3618198.65       53.11828  (10092724)                 486674.25
3618198.65       44.59511  (10092724)
       486724.14   3618198.65       44.72799  (10092724)                 486774.03
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   HAUL0001   , HAUL0002
 , HAUL0003   , HAUL0004   , HAUL0005   ,
                 HAUL0006   , HAUL0007   , HAUL0008   , HAUL0009   , HAUL0010
 , HAUL0011   , HAUL0012   , HAUL0013   ,
                 HAUL0014   , HAUL0015   , HAUL0016   , HAUL0017   , HAUL0018
 , HAUL0019   , HAUL0020   , HAUL0021   ,
                 HAUL0022   , HAUL0023   , HAUL0024   , HAUL0025   , HAUL0026
 , HAUL0027   , HAUL0028   , . . .   ,

                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

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       486923.70   3618248.65       28.60788  (10120309)                 486973.59
3618248.65       30.45371  (10120309)
       487023.48   3618248.65       31.62646  (10120309)                 486125.46
3618298.65       87.13973  (10121318)
       486175.35   3618298.65       82.85599  (10121318)                 486225.24
3618298.65       72.53494  (10121318)
       486275.13   3618298.65       62.16204  (10121318)                 486325.02
3618298.65       52.79689  (10121318)
       486374.91   3618298.65       49.61791  (10092724)                 486424.80
3618298.65       54.27647  (10092724)
       486474.69   3618298.65       56.69356  (10092724)                 486524.58
3618298.65       56.36506  (10092724)
       486574.47   3618298.65       54.21415  (10092724)                 486624.36
3618298.65       49.57004  (10092724)
       486674.25   3618298.65       44.22111  (10092724)                 486724.14
3618298.65       35.36597  (10092724)
       486774.03   3618298.65       31.76855  (10011717)                 486823.92
3618298.65       29.34326  (10011717)
       486873.81   3618298.65       26.49872  (10011717)                 486923.70
3618298.65       28.33012  (10120309)
       486125.46   3618348.65       88.12646  (10121318)                 486175.35
3618348.65       82.20481  (10121318)
       486225.24   3618348.65       64.49935  (10121318)                 486275.13
3618348.65       55.68946  (10121318)
       486325.02   3618348.65       48.88081  (10102819)                 486374.91
3618348.65       51.95232  (10092724)
       486424.80   3618348.65       55.75140  (10092724)                 486474.69
3618348.65       56.74398  (10092724)
       486524.58   3618348.65       55.72073  (10092724)                 486574.47
3618348.65       53.26547  (10092724)
       486624.36   3618348.65       49.86083  (10092724)                 486674.25
3618348.65       41.45451  (10092724)
       486724.14   3618348.65       34.40579  (10092724)                 486774.03
3618348.65       31.51451  (10011717)
       486823.92   3618348.65       29.85050  (10011717)                 486873.81
3618348.65       26.20380  (10011717)
       486125.46   3618398.65       87.97491  (10121318)                 486175.35
3618398.65       75.51351  (10121318)
       486225.24   3618398.65       54.04958  (10093002)                 486275.13
3618398.65       48.39961  (10121318)
       486325.02   3618398.65       50.43380  (10102819)                 486374.91
3618398.65       54.07385  (10092724)
       486424.80   3618398.65       56.19851  (10092724)                 486474.69
3618398.65       56.50597  (10092724)
       486524.58   3618398.65       55.01783  (10092724)                 486574.47
3618398.65       52.21643  (10092724)
       486624.36   3618398.65       48.54834  (10092724)                 486674.25
3618398.65       42.71912  (10092724)
       486724.14   3618398.65       35.68725  (10092724)                 486774.03
3618398.65       31.23819  (10011717)
```

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   HAUL0001   , HAUL0002
 , HAUL0003   , HAUL0004   , HAUL0005   ,
                 HAUL0006   , HAUL0007   , HAUL0008   , HAUL0009   , HAUL0010
 , HAUL0011   , HAUL0012   , HAUL0013   ,
                 HAUL0014   , HAUL0015   , HAUL0016   , HAUL0017   , HAUL0018
 , HAUL0019   , HAUL0020   , HAUL0021   ,
                 HAUL0022   , HAUL0023   , HAUL0024   , HAUL0025   , HAUL0026
 , HAUL0027   , HAUL0028   , . . .   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
       486574.47   3618448.65   51.04398 (10092724)   486624.36
 3618448.65   47.10646 (10092724)
       486674.25   3618448.65   42.50602 (10092724)   486724.14
 3618448.65   36.95086 (10121022)
       486774.03   3618448.65   35.52527 (10121022)   486125.46
 3618498.65   79.75487 (10121318)
       486175.35   3618498.65   47.41255 (10093002)   486225.24
 3618498.65   35.90841 (10093002)
       486275.13   3618498.65   58.45743 (10102819)   486325.02
 3618498.65   69.30961 (10102819)
       486374.91   3618498.65   65.52633 (10092724)   486424.80

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3618498.65       62.60641  (10092724)
       486474.69   3618498.65       60.51300  (10092724)                486524.58
3618498.65       57.07693  (10092724)
       486574.47   3618498.65       50.14069  (10092724)                486624.36
3618498.65       45.53185  (10092724)
       486674.25   3618498.65       41.85192  (10021621)                486125.46
3618548.65       77.28635  (10121318)
       486175.35   3618548.65       37.41710  (10093002)                486225.24
3618548.65       56.49184  (10102819)
       486275.13   3618548.65       74.63510  (10102819)                486325.02
3618548.65       74.60564  (10102819)
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       486474.69   3618548.65       59.54926  (10092724)                486524.58
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       487247.98   3616421.76      231.10198  (10012722)                487197.40
3616436.07      226.41011  (10012722)
       487083.85   3616471.34      201.50666  (10012722)                487021.64
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3616771.99      156.09931  (10020323)
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3617015.39      218.99243  (10093004)
       487046.44   3616930.34      225.92172  (10031321)

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*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

GROUP ID	NETWORK AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
HAUL	1ST HIGHEST VALUE IS	5.65438 AT (486570.59, 3617000.48, 2.28, 2.28, 1.80)	DC	
	2ND HIGHEST VALUE IS	4.55120 AT (486620.59, 3617000.48, 3.38, 3.38, 1.80)	DC	
	3RD HIGHEST VALUE IS	3.84417 AT (486605.37, 3616981.34, 2.94, 2.94, 0.00)	DC	
	4TH HIGHEST VALUE IS	2.59039 AT (486594.81, 3616964.16, 2.43, 2.43, 0.00)	DC	
	5TH HIGHEST VALUE IS	1.89495 AT (486620.59, 3617050.48, 3.38, 3.38, 1.80)	DC	
	6TH HIGHEST VALUE IS	1.86938 AT (486570.59, 3617050.48, 0.26, 0.26, 1.80)	DC	
	7TH HIGHEST VALUE IS	1.58842 AT (486570.59, 3616950.48, 0.69, 0.69, 1.80)	DC	
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	9TH HIGHEST VALUE IS	1.14398 AT (486520.59, 3617000.48, 0.04, 0.04, 1.80)	DC	
	10TH HIGHEST VALUE IS	1.13755 AT (486620.59, 3617100.48, 4.00, 4.00, 1.80)	DC	
CONSTRUC	1ST HIGHEST VALUE IS	70.41780 AT (487020.59, 3616850.48, 2.71, 2.71, 1.80)	DC	
	2ND HIGHEST VALUE IS	69.86531 AT (487270.59, 3616800.48, 3.00, 3.00, 1.80)	DC	
	3RD HIGHEST VALUE IS	68.48912 AT (487220.59, 3616800.48, 3.00, 3.00, 1.80)	DC	
	4TH HIGHEST VALUE IS	67.83927 AT (487120.59, 3616800.48, 0.97, 0.97, 1.80)	DC	

```
          5TH HIGHEST VALUE IS      67.22464 AT (  487170.59,  3616800.48,
2.05,     2.05,    1.80)  DC
          6TH HIGHEST VALUE IS      66.58789 AT (  487097.29,  3616749.11,
0.00,     0.00,    0.00)  DC
          7TH HIGHEST VALUE IS      63.53218 AT (  487070.59,  3616850.48,
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          9TH HIGHEST VALUE IS      60.77337 AT (  487001.92,  3616865.64,
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         10TH HIGHEST VALUE IS      59.79519 AT (  487027.85,  3616812.50,
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ALL       1ST HIGHEST VALUE IS      70.57932 AT (  487020.59,  3616850.48,
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          3RD HIGHEST VALUE IS      68.61369 AT (  487220.59,  3616800.48,
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2.09,     2.09,    0.00)  DC
         10TH HIGHEST VALUE IS      59.93861 AT (  487027.85,  3616812.50,
1.69,     1.69,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
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Environmental\Desktop\NASSCO ***        01/07/22
 *** AERMET - VERSION  19191 ***   ***
                       ***        11:59:01

                                  PAGE 227
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  RURAL  SigA Data

                                                *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***
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** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

GROUP ID (XR, YR, ZELEV, ZHILL, ZFLAG)	AVERAGE OF TYPE	NETWORK CONC GRID-ID	DATE (YYMMDDHH)	RECEPTOR
HAUL HIGH 1ST HIGH VALUE IS 26.27592 ON 10092522: AT (486605.37, 3616981.34, 2.94, 2.94, 0.00) DC				
CONSTRUC HIGH 1ST HIGH VALUE IS 350.65666 ON 10093005: AT (486970.59, 3617000.48, 3.19, 3.19, 1.80) DC				
ALL HIGH 1ST HIGH VALUE IS 351.14875 ON 10093005: AT (486970.59, 3617000.48, 3.19, 3.19, 1.80) DC				

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL SigA Data

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 174 Informational Message(s)

A Total of 8760 Hours Were Processed

A Total of 2 Calm Hours Identified

A Total of 172 Missing Hours Identified (1.96 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

```
   ********   WARNING MESSAGES   ********
ME W186    1620       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
MX W403    1620       PFLCNV: Turbulence data is being used w/o ADJ_U* option
SigA Data

   ***********************************
   *** AERMOD Finishes Successfully ***
   ***********************************
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Appendix B

Marine Habitat Assessment

MARINE TAXONOMIC SERVICES, LTD.

Marine Habitat Assessment for the General Dynamics-NASSCO Floating Dry Dock Replacement and Waterfront Improvement Project

June 28, 2021 (Revised April 21, 2022)

Prepared for:

Ascent Environmental, Inc.
1230 Columbia St.
San Diego, CA 92101

Prepared By:

Marine Taxonomic Services, Ltd.

SOUTHERN CALIFORNIA OFFICE

920 RANCHEROS DRIVE, STE F-1
SAN MARCOS, CA 92069

OREGON OFFICE

2834 NW PINEVIEW DRIVE
ALBANY, OR 97321

LAKE TAHOE OFFICE

1155 GOLDEN BEAR TRAIL
SOUTH LAKE TAKOE, CA 96150

Marine Taxonomic Services Ltd. 2022. Marine Habitat Assessment for the General Dynamics-NASSCO Floating Dry Dock Replacement and Waterfront Improvement Project. Prepared for Ascent Environmental, Inc. June 28, 2021 (Revised April 21, 2022).

Robert Mooney, PhD
Principal Scientist

Participating Marine Taxonomic Services Ltd. Team Members;

Biologist and Field Technician – Hannah Joss, BSc.
Biologist and Report Draft – Grace Teller, MSc.

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Acronyms

CCC	California Coastal Commission
CDFW	California Department of Fish and Wildlife
CEMP	California Eelgrass Mitigation Policy
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CFR	Code of Federal Regulations
CWA	Clean Water Act
dGPS	differential global positioning system
EFH	Essential Fish Habitat Assessment
ESA	Endangered Species Act
FMPs	Fishery Management Plan
HAPCs	Habitat Areas of Particular Concern
INRP	San Diego Bay Integrated Natural Resource Management Plan
MBTA	Migratory Bird Treaty Act
MLLW	mean lower low water
MMPA	Marine Mammal Protection Act
MSA	Magnuson-Stevens Fishery Management and Conservation Act
MTS	Marine Taxonomic Services, Ltd.
NAB	Naval Amphibious Base
NAS	Naval Air Station
NASSCO	General Dynamics-NASSCO
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
Project	Floating Dry Dock Replacement and Waterfront Improvement Project
RWQCB	Regional Water Quality Control Board
SWRCB	State Water Resource Control Board
USACE	United States Army Corps of Engineers
USFWS	United States Fish and Wildlife Service
WoS	waters of the State
WoUS	waters of the United States

Marine Habitat Assessment for the General Dynamics-NASSCO Floating Dry Dock Replacement and Waterfront Improvement Project

June 28, 2021 (Revised April 21, 2022)

1 Introduction

Marine Taxonomic Services, Ltd. (MTS) was contracted by Ascent Environmental, Inc (Ascent) to perform an assessment of marine habitats within the NASSCO shipyard leasehold. The goal of the survey was to observe areas below 7.79-feet mean lower low water (MLLW) for the purpose of mapping biological habitats for the proposed Project. This elevation was determined as the high-water line and is the jurisdictional elevation for permitting with the United States Army Corps of Engineers (USACE). The habitat data was used to develop a marine biological assessment presented in this document. This assessment provides an eelgrass map, discusses the habitats and dominant species present, includes an Essential Fish Habitat Assessment (EFH), and evaluates potential Project related impacts and potential mitigation measures.

1-1 Project Location

The NASSCO shipyard is located at 2798 East Harbor Drive in San Diego, California (Figure 1). The project site includes land and on/over water structures (Figure 2). All information relative to the project description, background, project need, and project description are adapted from supplemental information prepared for NASSCO (Anchor QEA 2020).

1-2 Project Description

General Dynamics-NASSCO (NASSCO) is proposing to perform land and waterside improvements under the Floating Dry Dock Replacement and Waterfront Improvement Project (Project; Figure 3). The goal of the proposed Project is to replace NASSCO's existing floating dry dock and supporting infrastructure to comply with current standards and code; improve the existing Repair Complex Wharf to maximize storage and laydown capabilities; repair failed revetment and exposed shoreline throughout the NASSCO leasehold to address damage from wave action and maintain safe operation of the shipyard; and repair and/or replace damaged structural piles throughout the NASSCO shipyard to restore structural integrity, extend service life, and provide safe mooring berths for new construction and repair vessels.

The Project includes removal and replacement of the existing floating dry dock and construction of supporting infrastructure (Figure 3). Improvements to the Repair Complex Wharf includes repair and replacement of piles and overwater expansion of the overall wharf structure. In addition to, repairs to the quay wall tow of slope along stretches of shoreline throughout the NASSCO leasehold. Including shoreline segments from Lot 20 to Pier 12, floating dry dock approach pier to Berth 8, Ways to Building Dock, Berth 2 to Berth 3, Berth 4 to Berth 5, and Berth 6 to Navy Base Quay Wall. As-needed structural repair and/or replacement is proposed at selected piles at Berths 2, 3, 4, 5, 6, Pier 12 and the floating dry dock approach pier, and at the Berth 1 Platform.

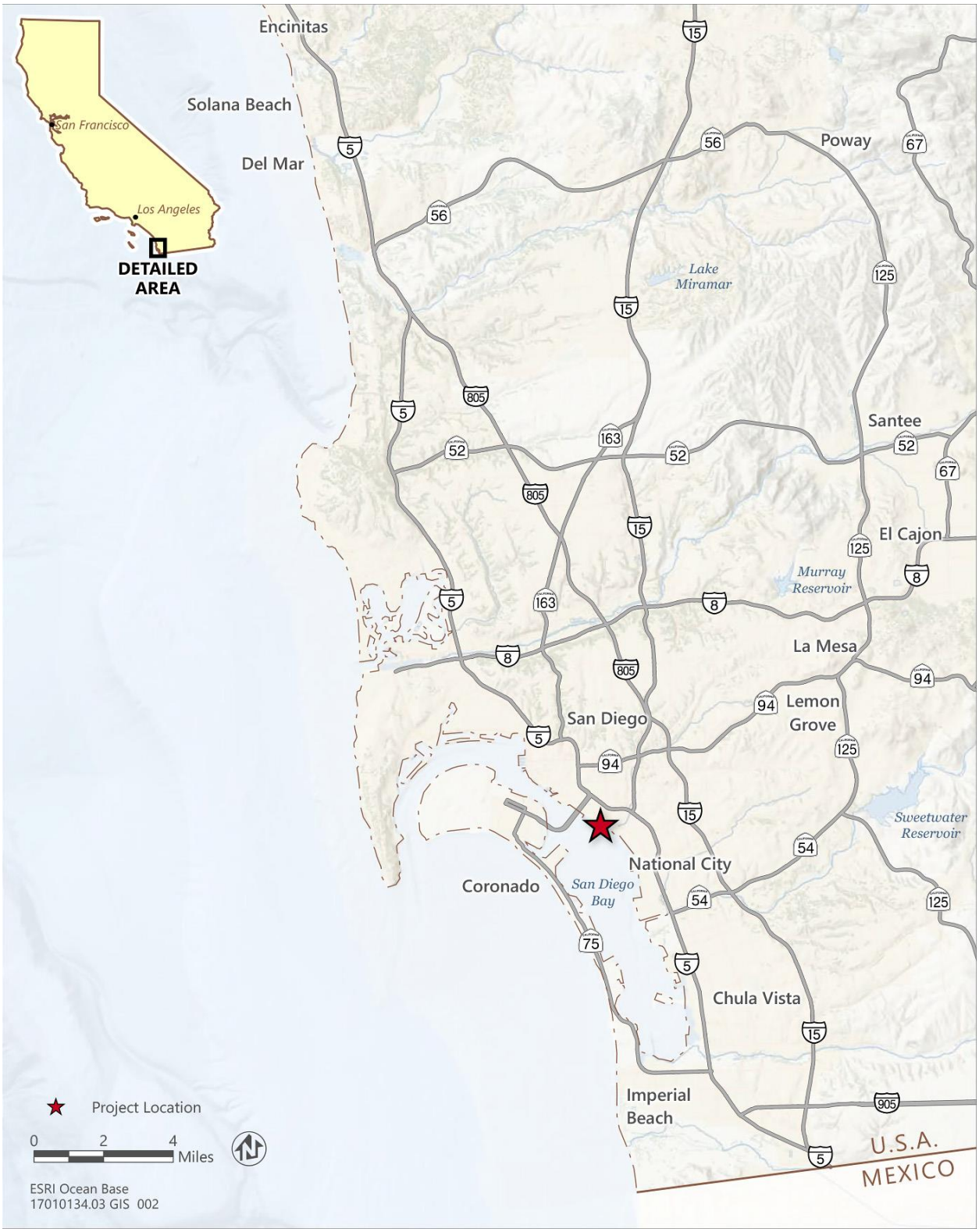


Figure 1. Vicinity map showing the location of NASSCO facility (project location) in San Diego Bay. Source Ascent Environmental 2021.

Figure 2. Extent of Project site boundary within San Diego Bay. Source: Ascent Environmental 2021.

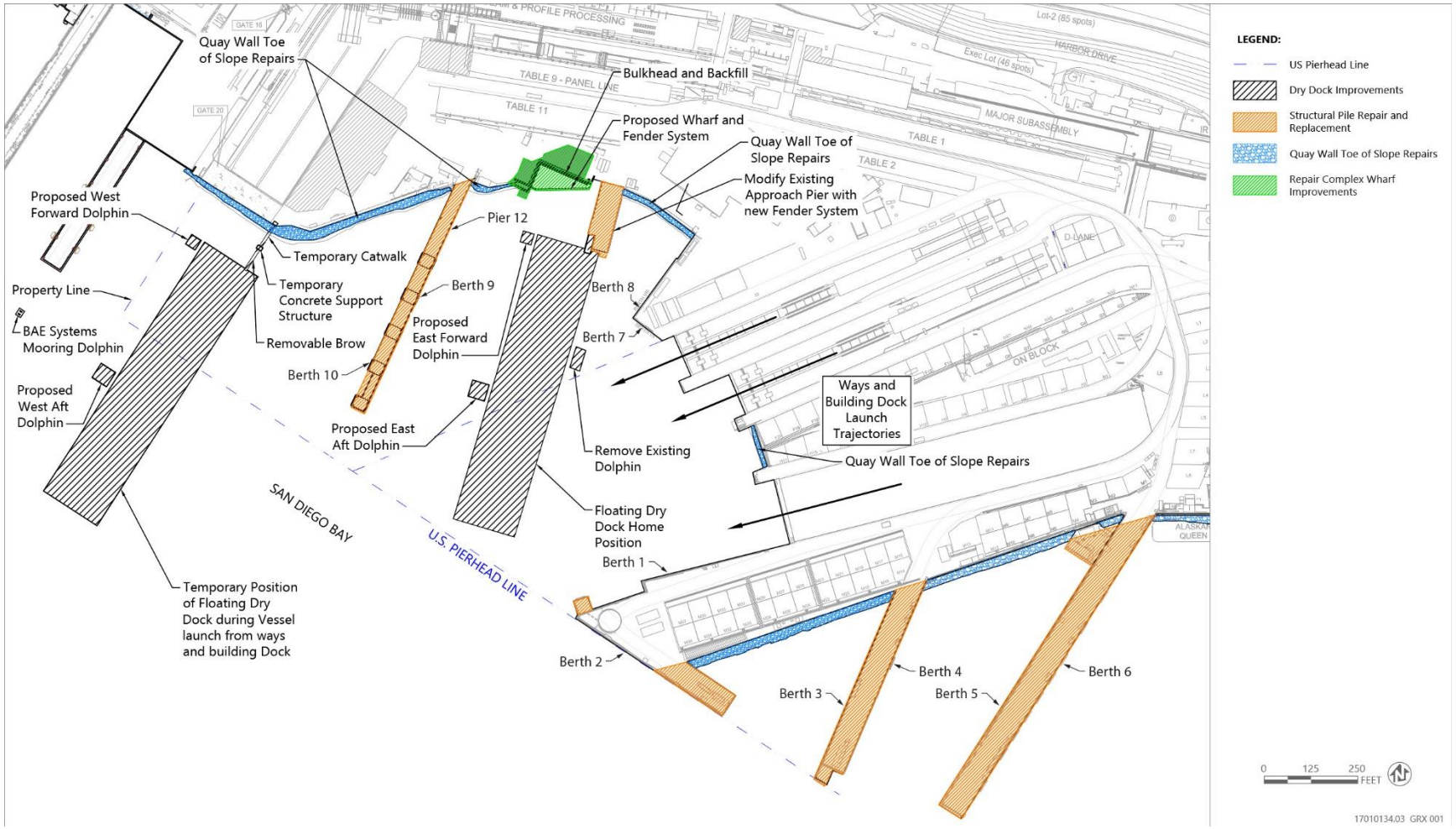


Figure 3. NASSCO facility proposed Project plans.

2 Survey Methods

This report relies on a combination of previously collected data, literature and observations made during survey work performed by MTS staff Robert Mooney and Hannah Joss on May 12, 2021. A secondary dive survey was performed on May 20, 2021 by Robert Mooney and Grace Teller to verify sonar data and map eelgrass boundaries within the Project site.

Data on intertidal habitats, hard bottom habitats, piles, and soft bottom habitats were collected by swimming within portions of the Project site water area using SCUBA (Figure 2). Piles were evaluated by observing a random subset of structures within the Project site. Intertidal and subtidal hard bottom and soft bottom habitat was evaluated by swimming multiple transects extending from shallow water to deeper water portions within the leasehold. Additional observations were made by performing a zig-zag pattern swim along shallow-water portions within the leasehold where hard bottom habitat transitioned to soft bottom habitat. The primary focus of performing the zig-zag portion of the survey was to confirm the extent of vegetated soft bottom habitat. Where vegetated soft bottom habitat was comprised of eelgrass (*Zostera* sp.). Side-scan sonar images of the seafloor were collected in shallow and deeper water area to complete the eelgrass survey within the Project site. Data from diver transects were also used to provide validation of side-scan sonar data and generally characterize the habitats within the Project site. The survey methods are described below.

2-1 Side-Scan Sonar Survey

To detect and map any eelgrass present, a side-scan sonar survey was performed by navigating a small vessel along a series of track lines through the Project site (Figure 2). The vessel was fitted with a pole-mounted side-scan sonar operating at 450 kHz. The sonar was set to scan 30 meters on both the port and starboard channels for a total scanning swath of 60 meters. Multiple side-scan sonar survey track lines within close proximity to one another were navigated across the Project area. This allowed for complete coverage of the Project area at water depths with potential to be occupied by eelgrass while providing overlapping data that allowed redundancy within the sonar record.

Following the field surveys, the collected side-scan sonar files were geographically registered using the vessel's navigation data collected during the survey. The side-scan files were then compiled to create a contiguous view of the seafloor across the entirety of the survey area. The boundaries of the eelgrass were identified for visual verification and mapping by diver.

2-2 Scuba and Transect Surveys

The SCUBA surveys were implemented to visually verify the sonar data, map eelgrass, and generally characterize habitats within the Project site (Figure 2). During the initial survey, each habitat type in the survey area was visually inspected for qualitative characterization and to document the dominant flora and fauna present. Notes were made on the occurrence, or potential for occurrence of sensitive species that could be impacted by the proposed Project.

The transect data were obtained by swimming multiple transects from shallow water to deep water in the Project site. Within the survey area boundaries, the diver anchored a fiberglass tape measure to the seafloor and used compass navigation to swim across the survey site. While the diver swam along the transect, they towed a buoy mounted with a differential global positioning system (dGPS). The diver was equipped with underwater communication system and was able to communicate within the Project site

to a second MTS staff member, the dive tender, on a small research vessel. The dive tender equipped with mapping software would then connect to the diver towed dGPS and record the location and description of what the diver was communicating. Along each transect, the diver surveyed habitat types including hard bottom, unvegetated soft bottom, vegetated soft bottom, piles, and open water.

On the follow up survey day, eelgrass identified in the sonar imagery was visually verified by diver and the boundary of each eelgrass bed was mapped. Additionally, MTS referenced previously mapped eelgrass (M&A 2019) within the NASSCO facility to confirm the extent of potential eelgrass targets not observed during the initial diver survey or in sonar imagery. MTS mapped eelgrass boundaries using the towed dGPS and mapping software used during the transect survey. When the diver identified eelgrass, they communicated to the dive tender. The diver tender started recording the location of the towed buoy as the diver swam the perimeter of the eelgrass bed. Eelgrass targets smaller than 4 square feet were mapped as a waypoint, the size was approximated and recorded, and later digitized during map development.

2-3 Habitat Characterization

Habitats were categorized by substrate type, vegetation presence or absence, and water depth. Substrate type consisted of hard bottom, piles, unvegetated soft bottom, vegetated soft bottom, and open water. A soft bottom habitat was considered vegetated if eelgrass was observed to be growing on the soft bottom substrate. Habitats were further divided by water depth categories delineated in the San Diego Bay Integrated Natural Resources Management Plan ([INRP]; Tierra Data 2013). Depth categories determined in the INRP were intertidal (+7.8 to -2.2 feet MLLW), shallow subtidal (-2.2 to -12 feet MLLW), moderately deep subtidal (-12 to -20 feet MLLW), and deep subtidal (>-20 feet MLLW).

3 Results

The results below present the findings of the side-scan sonar survey, SCUBA surveys of the marine habitat areas, and the analysis of the essential fish habitat. The depth range of each habitat mapped is provided in Table 1. The aerial extent of each habitat described below is presented in Figure 5.

Table 1. Table of habitat depth ranges within the NASSCO Project site.

HABITAT	Area (m2)
Intertidal (+7.8 - -2.2)	
Vegetated Soft Bottom Intertidal Habitat (eelgrass)	52.0
Unvegetated Soft Bottom Intertidal Habitat	1,120.9
Unvegetated Hard Bottom Intertidal Habitat	5,528.2
Shallow Subtidal (-2.2 - -12.0)	
Vegetated Soft Bottom Shallow Subtidal Habitat (eelgrass)	422.0
Unvegetated Soft Bottom Shallow Subtidal Habitat	6,587.8
Unvegetated Hard Bottom Shallow Subtidal Habitat	1,171.8
Moderately Deep Subtidal (-12.0 - -20.0)	
Vegetated Soft Bottom Moderately Deep Subtidal Habitat (eelgrass)	3.5
Unvegetated Soft Bottom Moderately Deep Subtidal Habitat	13,311.3
Unvegetated Hard Bottom Moderately Deep Subtidal Habitat	363.0
Deep Subtidal (-20.0 - -57.3)	
Unvegetated Soft Bottom Deep Subtidal Habitat	196,331.5

Habitats were considered vegetated only if they supported eelgrass resources. While minor amounts of other algae species were observed over soft bottom and hard substrates, they were still considered to be unvegetated. Eelgrass was only present on soft bottom habitat. Thus, all hard substrate was unvegetated.

3-1 Marine Habitats

The natural and man-made habitats observed and surveyed within the Project site included intertidal and subtidal hard bottom, intertidal and subtidal piles, subtidal unvegetated soft bottom, subtidal vegetated soft bottom, and open water habitats. Each marine habitat is discussed below. Subtidal habitats occurred in shallow, moderately deep, and deep subtidal water depths.

3-1.1 Hard Bottom Habitat

Hard bottom habitats observed throughout the Project site were generally present along the shallow water edges of survey sites and consisted of items used for the purpose of armoring the shoreline. Hard bottom substrate was generally comprised of varying and on occasion multiple types of hard material including riprap rock, stacked concrete blocks, and concrete poured over stacked concrete block.

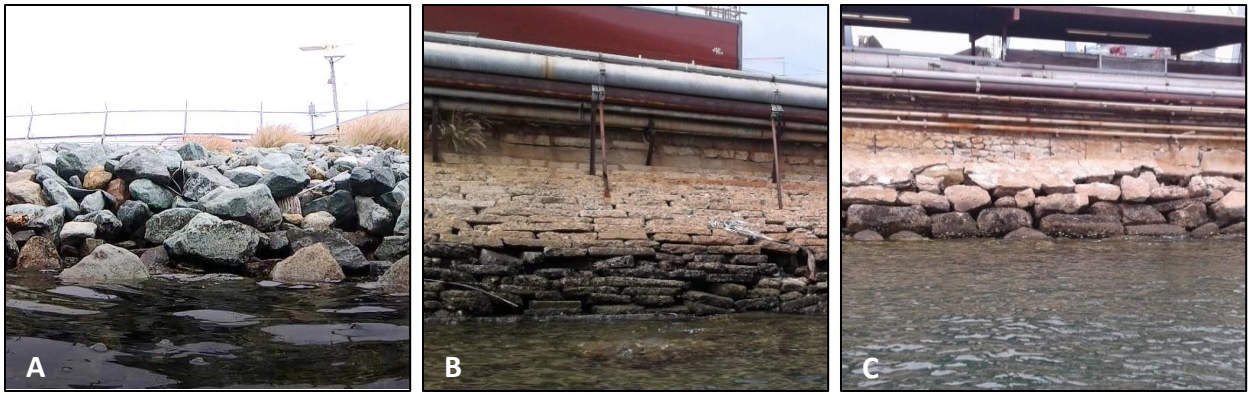


Figure 4. Photos of hard substrate taken within the Project site. (A) riprap rock, (B) stacked concrete block, and (C) concrete poured over staked concrete block.

3-1.1.1 Intertidal Hard Bottom Habitat (+7.8 to -2.2 feet MLLW)

Intertidal hard bottom habitats were present along the shoreline throughout each area surveyed and were generally present throughout the Project site for the purpose of shoreline stabilization. Organisms observed over and within intertidal hard bottom habitat generally included those that are typically associated with biofouling communities present in San Diego Bay. This included Pacific oysters (*Crassostrea gigas*), minor amounts of barnacles (*Chlhamalus* spp.), and filamentous brown algae (*Ectcarpus* sp.) algae. A single juvenile California sargo (*Anistremus davidsonii*) was observed seeking shelter between the rocks near the water's surface.

3-1.1.2 Shallow Subtidal Hard Bottom Habitat (-2.2 to -12 feet MLLW)

Shallow subtidal hard bottom substrate was generally present below areas where intertidal hard bottom substrate was observed. The presence of Pacific oysters increased from intertidal to shallow subtidal hard bottom habitat. Invertebrates also observed in the shallow subtidal areas included sponges (*Halichondria* sp.), bryozoans (*Cellaria mandibulata*), California aglaja (*Navanax intermis*), and tunicates (*Styela plicata*). In addition to filamentous brown algae, occasional occurrences of filamentous red algae (*Polysiphonia* sp.), foliose red algae (*Gelidium* sp., *Gracilaria* sp.), brown algae (*Sargassum muticum, Dictyota* sp., *Colpomenia* sp.), coralline algae (*Corallina officinalis, Lithothrix* spp.), kelp (*Undaria pinnatifida*) were observed. Vertebrate species observed in shallow subtidal hard bottom habitat included opaleye (*Girella nigricans*), kelp bass (*Paralabrax clathratus*), barred sand bass (*Paralabrax nebulifer*), spotted sand bass (*Paralabrax maculatofasciatus*), and California sargo.

3-1.1.3 Moderately Deep and Deep Subtidal Hard Bottom Habitat (-12 to >-20 feet MLLW)

Hard substrate was not consistently present below -12 feet MLLW. However, on occasion small rock or hard debris was present that allowed for the existence of organisms associated with hard substrate. Coralline algae and red algae were observed along with gorgonian corals (*Muricea fruticosa, M. californica*). Additionally, multiple California spiny lobster (*Panulirus interruptus*) were found to be associated with scattered hard substrate below -12 feet MLLW. Evidence of octopus dens were present on occasion near scattered hard substrate. Octopus dens were identified by holes burrowed below hard substrate that were surrounded by large shells and bivalve shells split in half, typically clam and mussel shells. Fish species observed in shallow subtidal hard bottom habitat were also present in moderately deep and deep hard bottom habitat. Barred sand bass, spotted sand bass, and California sargo were commonly seen seeking shelter near scattered rock or hard debris present in deeper subtidal habitat.

3-1.2 Piles

Piles are generally present throughout the Project site supporting overwater structures of the NASSCO facility. The upper reaches of the piles (approximately +2 to -2-feet MLLW) were generally colonized by a fouling community dominated by Pacific oysters, barnacles, and foliose species of red algae. Moving down the piles, foliose red algae, tunicates (*Styela plicata, Euherdamania claviformis,* compound tunicate species), and Pacific oyster were common. Fish were not observed around the piles, however, California sargo, barred sand bass, kelp bass, spotted sand bass, and opaleye observed elsewhere in the Project site may utilize these structures on occasion.

Figure 5. Habitat map for NASSCO Project site. See Appendix A for map sheets 1 through 4.

3-1.3 Unvegetated Soft Bottom

The majority of the area surveyed within the Project site was unvegetated soft bottom habitat. Unvegetated soft bottom habitat was found across all INRP habitat ranges. Unvegetated soft bottom habitat was generally characterized by sediment grain size of small to fine sand and shell hash. Bioturbation was generally low throughout all soft bottom habitats. In portions of deep subtidal unvegetated habitat moderate bioturbation was observed due to reduced coarseness of sediment and reduced presence of shell hash and shells.

3-1.3.1 Intertidal and Shallow Subtidal Unvegetated Soft Bottom Habitat (+7.8 to -12 feet MLLW)

A narrow section of intertidal and shallow subtidal unvegetated soft bottom habitat was present within the Project site. In addition to sand particulate large shells and shell hash composed much of the sediment this area. Minimal flora was observed in this area, green algae (*Ulva lactuca*) was typically seen in this region. Other algae species were generally associated with a pieces of hard substrate, debris, or rock. Few organisms were observed and consisted of occasional invertebrate organisms including tunicates, dorids (*Doridida*e sp.), and California aglaja. Vertebrate species observed included round stingrays (*Urolophus halleri*), California sargo, spotted sand bass, and barred sand bass.

3-1.3.2 Moderately Deep Subtidal Unvegetated Soft Bottom Habitat (-12 to -20 feet MLLW)

Moderately deep subtidal unvegetated soft bottom habitat was similar to habitat observed in shallow subtidal regions. Substrate was generally composed of sand particulate with shell hash and fewer large shells. However, aggregates of larger shell hash and shells were scattered throughout this depth range. Where these aggregates occurred, they allowed for green and red algae, and coralline algae to persist. On occasion invertebrates including tunicates, dorids, California aglaja, and burrowing anemones (*Pachycerianthus fimbriatus*) were observed. Vertebrate species observed in shallow subtidal unvegetated habitats were generally observed at this depth range.

3-1.3.3 Deep Subtidal Unvegetated Soft Bottom Habitat (>-20 feet MLLW)

Deep subtidal unvegetated habitat composed most of the seafloor within the Project site. Substrate was similar to that observed at moderately deep depths, however fewer shell aggregates were observed, and sediment grain size consisted of more small and fine particles. Where shell aggregates were observed filamentous red algae was observed. Tunicates, burrowing anemones, and bryozoans were observed on occasion in deep subtidal unvegetated soft bottom areas. Round stingrays (*Urolophus halleri*) became common in deep subtidal unvegetated soft bottom habitat where small grain size was present.

3-1.4 Vegetated Soft Bottom

Vegetated soft bottom (i.e., eelgrass) occurs within portions of areas surveyed throughout the Project site (Figure 6). Eelgrass covers a total aerial extent of 478 square meters and unvegetated eelgrass habitat covers 2,788 square meters within the Project site. Unvegetated eelgrass habitat is the area within 5-meters of established eelgrass resources where the beneficial aspects of eelgrass presence extend and influence benthic communities. Eelgrass was typically present in shallow subtidal habitat, occasionally intertidal habitat, and 3 square meters were mapped in moderately deep subtidal habitat. On occasion *Ruppia maritima* was observed growing in areas of eelgrass. Between berths 2 through 6.

The most common invertebrate observed within eelgrass was the cloudy bubble snail (*Bulla gouldiana*). Other common motile invertebrate species included the California aglaja. The soft bottom associated with

eelgrass was generally similar to unvegetated areas with evidence of more burrowing invertebrates, likely including bivalves, burrowing anemones, amphipods, and annelid worms. Fish observed within the eelgrass included round stingrays, barred sand bass, spotted sand bass, kelp bass, and shiner surfperch (*Cymatogaster aggregata*). It is likely that the eelgrass beds support numerous other fish species not observed during the survey.

3-1.5 Open Water

During the time of the survey Topsmelt (*Atherinops affinis*) were observed swimming in open water. It is likely that schooling baitfish frequent the waters of the open Project site, including Topsmelt and anchovy (*Anchoa* spp.) (Pondella and Williams 2009). These fish are important prey items for seabirds that can be expected to forage in the Project site, including brown pelicans (*Pelecanus occidentalis californicus*), double-crested cormorants (*Phalacrocorax auritus*), grebes, and terns. Jellyfish may also be present on occasion and/or seasonally within the Project site (Gavidor 2015). Jellyfish are common prey items for green sea turtles (*Chelonia mydas*) known to take reside in San Diego Bay.

Figure 6. Eelgrass map showing the aerial extent of eelgrass and unvegetated eelgrass habitat within the Project site relative to project components. Eelgrass map sheet set can be found in Appendix B.

4 Sensitive Species

Based on species lists provided by the U.S Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS) (USFWS 2019 and NMFS 2019a), an analysis of the range and habitat preferences of protected, rare, threatened, or endangered species that may occur within, or adjacent to the Project site was conducted. A list of these special status and protected species with potential to occur in the region and within the project site is provided below in Table 2.

Table 2. Special Status and Protected Species with the potential to occur within or near the Project site (USFWS 2019 and NMFS 2019a).

Common Name	Scientific Name	Conservation Status	Potential For Occurrence	
Birds			**San Diego Region**	**Project Site**
California brown pelican	*Pelecanus occidentalis*	Protected	High	Moderate
Least tern	*Sternula antillarum*	Threatened	High	Moderate
Western snowy plover	*Charadrius nivosus nivosus*	Threatened	High	Low
Turtles				
Green turtle	*Chelonia mydas*	Threatened	Moderate	Moderate
Leatherback turtle	*Dermochelys coriacea*	Endangered	Low	Unlikely
Loggerhead turtle	*Caretta caretta*	Threatened	Low	Unlikely
Olive Ridley turtle	*Lepidochelys olivacea*	Threatened	Low	Unlikely
Cetaceans				
Blue Whale	*Balaenoptera musculus*	Endangered	Low	Unlikely
Bottlenose dolphin	*Tursiops truncatus*	Protected	Moderate	Low
Bryde's whale	*Balaenoptera brydei*	Protected	Low	Unlikely
Cuvier's beaked whale	*Ziphius cavirostris*	Protected	Low	Unlikely
Dall's porpoise	*Phocoenoides dalli*	Protected	Low	Unlikely
Fin whale	*Balaenoptera physalus*	Endangered	Low	Unlikely
Gray whale	*Eschrichtius robustus*	Protected	Moderate	Low
Guadalupe fur seal	*Arctocephalus townsendi*	Threatened	Low	Unlikely
Humpback whale	*Megaptera novaeangliae*	Endangered	Low	Unlikely
Long-beaked common dolphin	*Delphinus capensis*	Protected	High	Low
Minke whale	*Balaenoptera acutorostrata*	Protected	Low	Unlikely
Northern right whale dolphin	*Lissodelphis borealis*	Protected	Low	Unlikely
Orca	*Orcinus orca*	Endangered	Low	Unlikely
Pacific white-sided dolphin	*Lagenorhychus obliquidens*	Protected	Low	Unlikely
Risso's dolphin	*Grampus griseus*	Protected	Moderate	Unlikely
Sei whale	*Balaenoptera borealis*	Endangered	Low	Unlikely
Short-beaked common dolphin	*Delphinus delphis*	Protected	High	Low
Short-finned pilot whale	*Globicephala macrorhynchus*	Protected	Low	Unlikely
Sperm whale	*Physeter macrocephalus*	Endangered	Low	Unlikely
Pinnipeds				
California sea lion	*Zalophus californicus*	Protected	High	Moderate
Northern elephant seal	*Mirounga angustrirostris*	Protected	Low	Unlikely
Northern fur seal	*Callorhinus ursinus*	Protected	Low	Unlikely
Pacific harbor seal	*Phoca vitulina*	Protected	Moderate	Low
Steller sea lion	*Eumetopias jubatus*	Endangered	Low	Unlikely

4-1 Birds

The California least tern nests along the west coast of North America, from Baja California, Mexico, north to the San Francisco Bay area. California least terns are seasonal residents of San Diego Bay, typically arriving in mid-to late-April to nest at several colonies adjacent to the Bay and are generally present through mid-August with September 15th marking the end of nesting season. California least terns may have two waves of nesting during this time period (Massey and Atwood 1981). California least terns establish nesting colonies on sandy open space with little vegetation. Along the shores of San Diego Bay and south of the Imperial Beach Oceanfront, California least terns' nest at multiple sites. These nest sites are located at the runway ovals at San Diego International Airport, the airfield tarmac at Naval Air Station (NAS) North Island as well as Delta and Echo Beaches at Naval Amphibious Base (NAB) Coronado, the D Street Fill, the Chula Vista Wildlife Reserve, the South Bay Salt Works levees, and along the beaches of the Tijuana River National Estuarine Research Reserve south of the Imperial beach Oceanfront (Frost 2017). California least terns actively forage for fish in the waters adjacent to nesting colonies in San Diego Bay; foraging also occurs in open ocean waters and along the nearshore waters adjacent to beaches of Silver Strand and Imperial Beach.

Available space for nesting least terns does not occur within the NASSCO Project site, however due to the proximality of the facility relative to known nesting colonies there is moderate potential for least terns to utilize areas of open water within the Project site to actively forage for fish.

The California brown pelican does not nest in San Diego Bay. They nest in colonies at Anacapa and Santa Barbara Islands in the California Channel Islands. They are wide ranging and can be frequently observed loafing and foraging in San Diego Bay. The California brown pelican is a state fully protected species under the California Fish and Game Code.

Although nesting does not occur along the mainland, there is moderate potential for California brown pelican to utilize areas of open water within the Project site to actively forage for fish.

The western snowy plover is a sparrow-sized, white and tan colored shorebird with dark patches on either side of the neck, behind the eyes, and on the forehead. The coastal western snowy plover population is defined as those individuals that nest adjacent to or near tidal waters and includes all nesting colonies on the mainland coast, peninsulas, offshore islands, adjacent bays, and estuaries. The breeding range of the coastal population of the western snowy plover extends along coastal beaches from the southern portion of Washington State to southern Baja California, Mexico. The recognized breading season of the western snowy plover normally extends from March 1 through September 15. In California, earliest nesting is sometimes observed in the first week of March with nesting typically observed by the third week of March. Peak initiation of nesting is observed mid-April through mid-June (USFWS 2007). Western snowy plover nest along similar sandy flat and dunes as California least tern. In San Diego Bay, nesting colonies occur along the beach at NAS North Island; at NAB Coronado, which includes the entire beachfront north of Imperial Beach; and farther south along the Silver Strand Training Complex and the beaches of the Tijuana River National Estuarine Research Reserve. California snowy plovers generally forage for small crustaceans, worms, and insects within exposed sandy beach or mudflat areas (Page et al. 2009).

Like the California least tern, available space for California snowy plovers nesting does not occur within the NASSCO Project site. Additionally, there is minimal habitat exposed at any given tide thus there is low potential for this species to utilize space within the facility for foraging.

4-2 Turtles

Green sea turtles (Chelonia mydas) have been documented in San Diego Bay dating back to the 1800s (Stinson 1984). Green sea turtles in San Diego Bay represent a local foraging population. These individuals do not breed in San Diego. Rather, the San Diego foraging population as well as other regional foraging populations is part of the Mexican breeding population (Eguchi et al. 2010). The nesting sites of the San Diego foraging population may include the Revillagigedo Islands, Tres Maria Islands, and mainland Mexico (Dutton 2003 as cited in Eguchi et al. 2010).

Although documented to historically occupy San Diego Bay, much of the resent research was performed while the South Bay Power Plant was in operation in south San Diego Bay. The warm water effluent associated with the once through cooling of the power plant created a warm water environment that researchers attributed to the abundance of green sea turtles in south San Diego Bay (Stinson 1984; McDonald et al. 1994; Duke Energy South Bay, LLC 2004). While it is likely true that the thermal discharges from the power plant worked to structure the San Diego Bay green sea turtle population, the population has continued to persist after the decommissioning of the power plant. This is likely due in part to the long residence time of south San Diego Bay waters which tend to be warmer than the rest of the bay regardless of the presence of additional thermal input.

The population requirements of green sea turtles in San Diego Bay mean that the animals spend most of their time in the south bay. The potential to observe animals in more northern portions of San Diego Bay and in offshore environments increases in summer months when warmer surface water is present. The decommissioning of the South Bay Power Plant has also been attributed to an increased number of more northern observations (*sensu* Seminoff quoted in Brody 2013). Animals will also leave foraging opportunities in San Diego Bay when they migrate to nesting sites.

There is moderate potential for green sea turtle presents at the NASSCO Project site due to the facility's central location within San Diego Bay. Other sea turtle species have not been observed in San Diego Bay thus it is unlikely for them to be observed within the Project site.

4-3 Cetaceans

Common dolphin's and bottlenose dolphins have widespread distributions and are commonly observed in southern California nearshore environments. They are also often observed in the north San Diego Bay area from the San Diego Bay entrance to approximately Harbor Island (personal observation R. Mooney and refer to NAVFACSW 2016). These animals are often observed either swimming alongshore or bow-riding vessels entering and leaving the bay. Due to the location of the NASSCO Project site, further south and away from the San Diego Bay entrance, the potential for the occurrence of these species is low.

All the remaining cetaceans except for the gray whale, have very low potential for observation along the San Diego coast and are unlikely to occur within the NASSCO Project site. The gray whale performs annual migrations from cooler northern Pacific feeding areas to embayments in Baja California, Mexico for mating and caving. Gray whales migrate south through San Diego coastal waters in fall and early winter and can be observed on their northbound migration in later winter and early spring. Animals have been occasionally observed entering San Diego Bay (personal observation R. Mooney and NAVFACSW 2016); these events are likely accidental and are rare. Should animals enter San Diego Bay there is very low potential for them to travel as far south as the Project site.

4-4 Pinnipeds

Pinnipeds are flipper-footed marine mammals that spend a portion of their time out of the water. Pinnipeds typically spend a portion of their day on dry land resting, sleeping, mating (in season), and giving birth (in season), a behavior called hauling out. Choice of haul out sites is probably related to ease of access, proximity to food resources, protection from waves and predators. Pinnipeds are documented to occupy natural settings: sandy beaches, rocky beaches, boulder beaches, rocks and pinnacles, mud flats, reefs, fallen trees, and rock shelves. California sea lion (*Zalophus californianus*) and occasionally Pacific harbor seal (*Phoca vitulina*) occupy man-made structures (e.g., docks, buoys, landings, breakwaters, boats, barges, and fish ladders). Potential disturbance occurs when these haul-out locations overlap with urbanized areas.

In San Diego Bay, both California sea lion and Pacific harbor seal haul out on natural (e.g., beaches) and man-made structures, forage, raft, and mill throughout the entirety of the bay. California sea lion and harbor seal are not typically found in the same haul out locations due, in part, to their physiology. The California sea lion is able to haul out on steep, rocky habitat because it can rotate its pelvis to use all four limbs to walk. Harbor seal cannot rotate the pelvis and must move on land by undulating the body (NPS 2016). Within San Diego Bay, California sea lion is the dominant and most numerous pinniped observed, whereas harbor seal is more elusive and found in lower numbers. California sea lion haul out in large numbers at the two bait barges that are located near the entrance to San Diego Bay in Point Loma. They also haul out individually or in small groups on buoys, docks, and boats throughout San Diego Bay but are most prevalent in northern portions of San Diego Bay. In addition to the animals that haul out on the buoys, docks, and boats, California sea lion rests in moderate numbers on the rock riprap that forms Zuniga Jetty at the entrance to San Diego Bay (M&A 2008).

On the exposed ocean side of the Point Loma Peninsula, harbor seals have established one of two mainland hauling and rookery sites in San Diego County. As a result, Pacific harbor seals and their pups have been documented in San Diego Bay, mostly at the northern end of the Bay nearest Ballast Point. The harbor seals use a portion of the docks in a restricted area adjacent to the Naval Base Point Loma Submarine docking station to haul out. In addition, harbor seals have been observed to haul out along the shore south of Ballast Point (NAVFACSW 2014).

Other pinnipeds seen in the bay include northern elephant seal (*Mirounga angustrirostris*) and Steller sea lion (*Eumetopias jubatus*). These are rare sightings and—in the case of the elephant seals—they are typically undernourished juveniles that strand on the shore within the bay. Steller sea lions have been recorded hauled out on the bait barge and navy docks, and swimming in the north bay (NAVFACSW 2015).

While the NASSCO Project site is located further from the San Diego Bay entrance and the established natural haul out sites there is potential for these species to travel further into the bay in search of anthropogenic haul out areas and foraging for food. There is potential for California sea lions and harbor seals to transit within the open waters of the NASSCO facility and utilize structures within the facility as haul out sites. Given the overall rarity of sightings of other pinniped species in north San Diego Bay, all other pinniped species are considered to be unlikely to occur within the project area.

5 Essential Fish Habitat Assessment

This section includes an assessment of Essential Fish Habitat Assessment (EFH) located within the designated Project site that could potentially be impacted by the proposed project. The legal background and purpose of the following EFH assessment, managed species and fisheries with the potential to occur within the designated Project site, and Habitat Areas of Particular Concern (HAPCs) known to occurs within the designated Project site are discussed below.

5-1 Essential Fish Habitat Background

The following EFH assessment for the proposed project is provided in accordance with the 1996 amendments to the Magnuson-Stevens Fishery Management and Conservation Act (MSA) (Code of Federal Regulations (CFR) Title 50, Chapter VI, Part 600). The amendments require the delineation of "essential fish habitat" for all managed species. Federal action agencies which fund, permit, or carry out activities that may adversely impact EFH are required to consult with the NMFS regarding the potential effects of their actions on EFH and respond in writing to the NMFS's recommendations.

The MSA defines EFH as "those waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity." For the purpose of interpreting the definition of essential fish habitat: "waters" include aquatic areas and their associated physical, chemical, and biological properties that are used by fish and may include aquatic areas historically used by fish where appropriate; "substrate" includes sediment, hard bottom, structures underlying the waters, and associated biological communities; "necessary" means the habitat required to support a sustainable fishery and the managed species' contribution to a healthy ecosystem; and "spawning, breeding, feeding, or growth to maturity" covers a species' full life cycle. A healthy ecosystem is defined under the MSA as, "an ecosystem where ecological productive capacity is maintained, diversity of the flora and fauna is preserved, and the ecosystem retains the ability to regulate itself".

The purpose of this EFH assessment is to comprehensively identify and analyze EFH occurring within the designated study area, so that federal agencies can best determine whether or not the proposed project would adversely affect designated EFH, and identify possible conservation measures to avoid, minimize, or otherwise offset potential adverse effects to EFH. The MSA requires consultation for all federal agency actions that may adversely affect EFH. EFH consultation with NMFS is required by federal agencies undertaking, permitting, or funding activities that may adversely affect EFH, regardless of its location. Under Section 305(b)(4) of the MSA, NMFS is required to provide EFH conservation and enhancement recommendations to federal and state agencies for actions that adversely affect EFH. As such, the following EFH assessment, which includes an analysis of species managed by the Pacific Fishery Management Council (PFMC) that are known to utilize EFH within the study area, and an analysis of potential HAPCs within the study area, will provide all of the information necessary for NMFS to conduct any future EFH consultations for the proposed project.

5-2 Managed Fisheries with EFH occurring within the Project Site

To adequately address EFH within the study area, fish species managed by the PFMC that are known to either occur within the study area, have historically occurred within the study area, or depend upon those marine habitats that are known to occur within study area, were identified. This was accomplished through a thorough evaluation of both fish species identified during previously conducted fisheries inventories within the study area (Pondella and Allen 2000), and by reviewing species distribution lists of species managed under Pacific Fishery Management Council Fishery Management Plan (FMPs; NOAA Fisheries 2019). In all, 28 species managed by the PFMC were identified, including species managed under

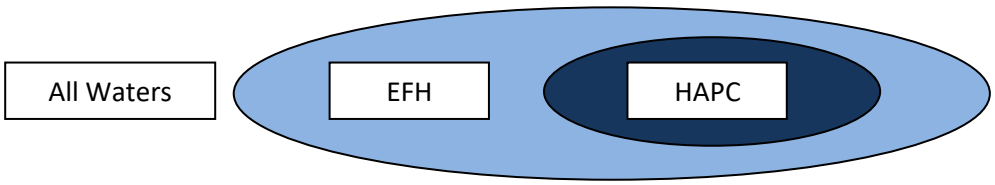
the Coastal Pelagic Species FMP, the Highly Migratory Species FMP, and the Pacific Groundfish FMP (Table 3).

Table 3. Fish species managed under the Coastal Pelagic Species FMP, Highly Migratory Species FMP, and Pacific Coast Groundfish FMP with designated EFH occurring within the study area.

Common Name	Species Name
Coastal Pelagic Species FMP	
Jack Mackerel	*Trachurus symmetricus*
Krill	*Euphausia Pacifica & Thysanoessa Spinifera*
Market Squid	*Loligo opalescens*
Northern Anchovy	*Engraulis mordax*
Pacific Mackerel	*Scomber japonicas*
Pacific Sardine	*Sardinops sagax*
Highly Migratory Species FMP	
Albacore Tuna	*Thunnus Alalunga*
Bigeye Tuna	*Thunnus obesus*
Blue Shark	*Prionace glauca*
Broadbill Swordfish	*Xiphias gladius*
Common Thresher Shark	*Alopias vulpinus*
Dorado	*Coryphaena hippurus*
Northern Bluefin Tuna	*Thunnus thynnus*
Shortfin Mako Shark	*Isurus oxyrinchus*
Skipjack Tuna	*Katsuwonus pelamis*
Striped Marlin	*Kajikia audax*
Yellowfin Tuna	*Thunnus albacares*
Pacific Coast Groundfish FMP	
Black and Yellow Rockfish	*Sebastes chrysomelas*
Blue Rockfish	*Sebastes mystinus*
Boccaccio	*Sebastes paucispinis*
Big Skate	*Raja binoculata*
Cabezon	*Scorpaenichthys marmoratus*
Calico Rockfish	*Sebastes dalli*
California Scorpionfish	*Scorpaena guttata*
California Skate	*Raja inornate*
Canary Rockfish	*Sebastes pinniger*
Chilipepper Rockfish	*Sebastes phillipsi*
Copper Rockfish	*Sebastes caurinus*
Cowcod	*Sebastes levis*
Curlfin Sole	*Pleuronichthys decurrens*
Spiny Dogfish	*Squalus acanthias*
Dover Sole	*Microstomus pacificus*
English Sole	*Parophrys vetulus*
Gopher Rockfish	*Sebastes carnatus*
Grass Rockfish	*Sebastes rastrelliger*
Green-Spotted Rockfish	*Sebastes chlorostictus*
Honeycomb Rockfish	*Sebastes umbrosus*
Kelp Rockfish	*Sebastes atrovirens*
Leopard Shark	*Triakis semifasciata*
Petrale sole	*Eopsetta jordani*
Pacific Sanddab	*Citharichthys sordidus*

5-3 Habitat Areas of Particular Concern (HAPCs) Observed within the Project Area

HAPC were observed within the Project site. HAPCs are a discreet subset of EFH (as illustrates below *) that are distinguished by characteristics including their high ecological value and vulnerability to anthropogenic stressors.



(Adapted from NMFS 2019b)

Area within designated EFH can also be designated as a HAPC based on one or more of the following characteristics: 1) The importance of the ecological function provided by the habitat, 2) Its sensitivity to human-induced environmental degradation, 3) The extent of threats posed by development of the habitat, or 4) The rarity of the habitat type (NMFS 2019b). HAPCs are considered high priority areas for conservation, management, or research because they are rare, sensitive, stressed by development, or important to ecosystem function (NMFS 2019b). The HAPC designation does not necessarily mean additional protections or restrictions upon an area, but the help to prioritize and focus conservation efforts (NMFS 2019b). Although these habitats are particularly important for healthy fish populations, other EFH area that provide suitable habitats are also necessary to support and maintain sustainable fisheries and a healthy ecosystem (NMFS 2019b). Current HAPC types are estuaries, canopy kelp, seagrass, and rocky reefs. Rocky reefs are defined by NMFS as submerged rock outcrops with varying relief, creating refuges for juvenile and smaller fishes and surface areas for colonization of algae and invertebrates.

Based on this definition, a review of mapping NMFS mapping data for pacific Coast HAPCs (NOAA Fisheries 2019), and confirmation obtained from side-scan sonar and visual SCUBA survey observation from this biological assessment, 478 square meters of eelgrass (*Zostera marina*), seagrass habitat, were identified within the Project site and can be classified as a HAPC (Figure 5, Figure 6).

Seagrass habitats present within waters of the Project site performed functions and contributions to ecological processes, summarized by Mooney and Woodfield (2009).

Eelgrass plays many important roles in estuarine systems. It clarifies water through sediment trapping and stabilization (de Boer 2007). It also provides the benefits of nutrient transformation and water oxygenation (Yarbro and Carlson 2008). Eelgrass serves as a primary producer in detritus-based food webs (Thresher et al. 1992) and is further directly grazed upon by invertebrates, fish, and birds (Valentine and Heck 1999), thus contributing to eco-system health at multiple trophic levels. Additionally, it provides physical structure in the form of habitat to the community and supports epiphytic plants and animals, which are in turn grazed upon by other invertebrates, fish, and birds. Eelgrass is also a nursery area for many commercially and recreationally important finfish and shellfish (Heck et al. 2003), including both those that are resident within the bays and estuaries, as well as oceanic species that enter the estuaries to breed or spawn. Among recreationally important species, sand basses and lobster make use of eelgrass beds as habitat. Besides providing important habitat for fish, eelgrass and associated invertebrates provide important food resources, supporting migratory birds during critical life stages, including migratory periods.

6 Laws and Regulations

6-1 Federal

6-1.1 Coastal Zone Management Act of 1972

The Coastal Zone Management Act of 1972 is administered by the National Oceanic and Atmospheric Administration's (NOAA) Office of Ocean and Coastal Resource Management, provides for management of the nation's coastal resources and balances economic development with environmental conservation.

The Coastal Zone Management Act outlines two national programs. The National Coastal Zone Management Program includes 34 coastal programs. The goal of the programs are to balance competing land and water issues in the coastal zone. The National Estuarine Research Reserve System creates field laboratories that provide a greater understanding of estuaries and how humans affect them. The overall program objectives of the act are to "preserve, protect, develop, and where possible, to restore or enhance the resources of the nation's coastal zone."

The Coastal Zone Management Act ensures that development projects in coastal areas are designed and permitted in a manner that is consistent with coastal zone land uses, maximizes public health and safety, and ensures that biological resources (e.g., wetlands, estuaries, beaches, and fish and wildlife and their habitat) within the coastal zone are protected. The California Coastal Commission enforces the Coastal Zone Management Act by certifying that any proposed project is consistent with the California Coastal Act of 1976 (as amended). The enforceable policies of the Coastal Zone Management Act are found in Chapter 3 of the California Coastal Act.

6-1.2 Rivers and Harbors Act (Section 10)

The USACE is authorized to regulate any activity within or over any navigable water of the United States pursuant to Section 10 of the Rivers and Harbors Act. Rivers and Harbors Act Section 10 jurisdiction is defined as "those waters that are subject to the ebb and flow of the tide and/or are presently used, or have been used in the past, or may be susceptible for use, to transport interstate or foreign commerce" (33 Code of Federal Regulations 322). The San Diego Bay is considered a traditional navigable water regulated under Section 10 of the Rivers and Harbors Act.

6-1.3 Endangered Species Act of 1973

Species listed as endangered and/or threatened by the USFWS are protected under Section 9 of the federal Endangered Species Act, which forbids any person to "take" an endangered or threatened species. Take is defined in Section 3 of the act as "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct." The U.S. Supreme Court ruled in 1995 that the term "harm" includes destruction or modification of habitat. Sections 7 and 10 of the Act may authorize "incidental take" for an otherwise lawful activity (a development project, for example) if it is determined that the activity would not jeopardize survival or recovery of the species. Section 7 applies to projects where a federally listed species is present and there is a federal nexus, such as a federal Clean Water Act (CWA) Section 404 permit (e.g., impacts on waters of the U.S.) that is required. Section 10, requiring an incidental take permit, applies when a federally listed species is present, but there is no federal nexus.

6-1.4 Magnuson-Stevens Fishery Management and Conservation Act, as amended 1996 (Public Law 104-267)

Federal agencies must consult with NOAA Fisheries on actions that may adversely affect EFH. EFH is defined as those "waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity." NOAA Fisheries encourages streamlining the consultation process using review procedures under the National Environmental Policy Act, Fish and Wildlife Coordination Act, the CWA, and/or the federal Endangered Species Act (ESA) provided that documents meet requirements for EFH assessments under Section 600.920(g). EFH assessments must include (1) a description of the proposed action, (2) an analysis of effects, including cumulative effects, (3) the federal agency's views regarding the effects of the action on EFH, and (4) proposed mitigation, if applicable. The EFH is discussed in Section 5 of this report.

6-1.5 Marine Mammal Protection Act of 1972

The Marine Mammal Protection Act (MMPA) of 1972 prohibits, with certain exceptions, the take of marine mammals in U.S. waters and by U.S. citizens on the high seas, and the importation of marine mammals and marine mammal products into the United States. Congress passed the MMPA based on the following findings and policies: (1) some marine mammal species or stocks may be in danger of extinction or depletion as a result of human activities, (2) these species of stocks must not be permitted to fall below their optimum sustainable population level (depleted), (3) measures should be taken to replenish these species or stocks, (4) there is inadequate knowledge of the ecology and population dynamics, and (5) marine mammals have proven to be resources of great international significance.

The MMPA was amended substantially in 1994 to provide for: (1) certain exceptions to the take prohibitions, such as for Alaska Native subsistence, and for permits and authorizations for scientific research; (2) a program to authorize and control the taking of marine mammals incidental to commercial fishing operations; (3) preparation of stock assessments for all marine mammal stocks in waters under U.S. jurisdiction; and (4) studies of pinniped-fishery interactions. Additionally, under the 1994 amendments to the MMPA, harassment is statutorily defined as any act of pursuit, torment, or annoyance that:

- Has the potential to injure a marine mammal or marine mammal stock in the wild (Level A harassment); or
- Has the potential to disturb a marine mammal or marine mammal stock in the wild by causing disruption of behavior patterns, including, but not limited to migration, breathing, nursing, breading, feeding, or sheltering but which does not have the potential to injure a marine mammal or marine mammal stock in the wild (Level B harassment).

NOAA Fisheries and USFWS administer the MMPA. The proposed project must be analyzed to ensure that marine mammals protected under the MMPA would not be harassed or injured as a result of future activities in or adjacent to San Diego Bay. Any future project activities that may result in Level A or B harassment, injury, or mortality would require consultation with NOAA Fisheries and USFWS under the MMPA.

6-1.6 Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA) was enacted in 1918 to prohibit the killing or transport of native migratory birds, or any part, nest, or egg of any such bird, unless allowed by another regulation adopted in accordance with the MBTA. Under the MBTA, "take" means to kill, directly harm, or destroy individuals, eggs, or nests or to otherwise cause failure of an ongoing nesting effort. Migratory bird species that are

protected by the MBTA is maintained by USFWS, which regulates most aspects of the taking, possession, transportation, sale, purchase, barter, exportation, and importation of migratory birds. The USFWS does not issue permits for "incidental take" of migratory birds that results from otherwise lawful activities such as construction of development projects.

6-1.7 Clean Water Act

The major federal legislation governing water quality is the Federal Water Pollution Control Act Amendments of 1972, commonly known as the CWA (33 United States Code [USC] 1251–1376), as amended by the Water Quality Act of 1987. The intention of the CWA is to "restore and maintain the chemical, physical, and biological integrity of the nation's waters." Discharges into waters of the United States (WoUS) are regulated under CWA Section 404 and includes (1) all navigable waters (including all waters subject to the ebb and flow of the tide); (2) all interstate waters and wetlands; (3) all other waters, such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sand flats, wetlands, sloughs, or natural ponds; (4) all impoundments of waters mentioned above; (5) all tributaries to waters mentioned above; (6) the territorial seas; and (7) all wetlands adjacent to waters mentioned above. Important applicable sections of the CWA are discussed below.

- **Section 401** requires any federal permit applicant that proposes an activity that may result in a discharge into WoUS to obtain certification from the state that the discharge will comply with the CWA. A 401 certification is provided by the Regional Water Quality Control Board (RWQCB) assigned to the project's region. A Section 401 certification from the San Diego RWQCB would be required this project if a Section 404 permit and Rivers and Harbor Act (Section 10) permit is required.

- **Section 404** certification is required where USACE issues permits for discharge of dredged or fill material into WoUS. These permits typically include conditions to minimize impacts on water quality. Common conditions include: (1) USACE review and approval of sediment quality analysis before dredging; (2) a detailed pre- and post-construction monitoring plan that includes disposal site monitoring; and (3) requiring compensation for loss of WoUS.

6-1.8 California Eelgrass Mitigation Policy

Eelgrass, *Zostera* spp., is protected under the CWA as a habitat forming species ans the resources is managed locally under the California Eelgrass Mitigation Policy (CEMP) as developed by NOAA fisheries (NMFS 2014). Additionally, due to the high ecological value of eelgrass as essential fish habitat, eelgrass is also designated as a habitat of particular concern (HAPC) by NOAA Fisheries. The CEMP requires that an eelgrass survey be performed prior to construction to evaluate the presence of eelgrass and or potential eelgrass habitat.

NMFS has provided this policy to other state and federal agencies, including the California Department of Fish and Wildlife (CDFW), as guidance for handling project-related impacts on eelgrass habitat.

6-2 State

6-2.1 California Coastal Act of 1976

California ports, harbors, and coastline beaches are recognized as primary economic and coastal resources and as essential elements of the national maritime industry by the California Coastal Act of 1976. Decisions to undertake specific development projects are to be based on consideration of alternative locations and

designs in order to minimize any adverse environmental impacts. The California Coastal Act is implemented by the California Coastal Commission (CCC).

6-2.2 California Endangered Species Act; Fully Protected Species

The California Endangered Species Act (CESA) establishes the policy of the State to conserve, protect, restore, and enhance threatened or endangered species and their habitats. Projects that would jeopardize the continued existence of threatened or endangered species if reasonable and prudent alternatives are available should not be approved according to the CESA. For projects that affect both a state- and federally listed species, compliance with the federal ESA will satisfy the CESA if the CDFW determines that the federal incidental take authorization is consistent with the CESA under California Fish and Game Code Section 2080.1. Also, California Fish and Game Code Sections 3511, 4700, 5050, and 5515 prohibit take or possession of fully protected species.

6-2.3 California Fish and Game Code

Other sections of the California Fish and Game Code establish the Fish and Game Commission, as authorized by Article IV, Section 20, of the Constitution of the State of California. Under Sections 200-221 the Fish and Game Commission is responsible for regulating the take of fish and game, not including the taking, processing, or use of fish, mollusks, crustaceans, kelp, or other aquatic plants for commercial purposes. The Fish and Game Commission does regulate aspects of commercial fishing, including fish reduction; shellfish cultivation; take of herring, lobster, sea urchins, and abalone; kelp leases; leases of state water bottoms for oyster allotments; and aquaculture operations. The resource protection is responsible for setting recreational and commercial limits on species collection, collection method, and determines the conditions under which permits, or licenses may be issued or revoked by CDFW. The Fish and Game Commission also oversees the establishment of wildlife areas and ecological reserves and regulates their use and sets policy for CDFW.

CDFW is a lead state agency that manages native fish, wildlife, plant species, and natural communities for their ecological value and their benefits to people. CDFW oversees the management of marine species through several programs, some in coordination with NMFS and other agencies.

6-2.4 Porter-Cologne Water Quality Control Act

The Porter-Cologne Water Quality Control Act is the California or state equivalent of the federal CWA. It provides for statewide coordination of water quality regulations through the establishment of the State Water Resources Control Board (SWRCB) and nine separate RWQCBs that oversee water quality on a day-to-day basis at the regional/local level. The RWQCB regulates actions involving “discharging waste, or proposing to discharge waste, within any region that could affect the water of the state” (Water Code Section 13260(a)), pursuant to provisions of the Porter-Cologne Act. Waters of the state (WoS) are defined as “any surface water or groundwater, including saline waters, within the boundaries of the state” (Water Code Section 13050 (e)).

The RWQCB regulates WoS under Section 401 of the CWA. This requires states to certify that federally authorized activities comply with state water quality standards. A Water Quality Certification or a waiver must be obtained from the RWQCB if an activity requiring a Section 404 permit would affect WoS. Additionally, the RWQCB issues waste discharge requirements for discharges to WoS for fill of wetlands and other waters that are not regulated by Section 404 of the federal CWA.

6-3 Local

6-3.1 San Diego Bay Integrated Natural Resources Management Plan

The INRP is a long-term strategy sponsored by the U.S. Navy and the District. Its intent is to provide direction for the good management of natural resources while also supporting the ability of the Navy and District to meet their missions and continue functioning within San Diego Bay. The main strategies of the plan are to (1) manage and restore habitats, populations, and ecosystem processes; (2) plan and coordinate projects and activities so that they are compatible with natural resources; (3) improve information sharing, coordination, and dissemination; (4) conduct research and long-term monitoring that supports decision-making; and (5) put in place a Stakeholder's Committee and Focus Subcommittees for collaborative, ecosystem-based problem-solving in pursuit of the goal and objectives.

7 Project Impact Analysis

7-1 Thresholds of Significance

The following significance criteria are based on Appendix G of the State of California Environmental Quality Act (CEQA) Guidelines and provide the basis for determining the significance of biological resource impacts resulting from the proposed Project. The determination of whether a biological resource impact would be significant is based on the threshold described below and the professional judgment and recommendations of qualified MTS personnel.

Impacts are considered if the proposed Project would result in any of the following.

Threshold 1: Have a substantial adverse effect, either directly or through habitat modification, on any species identified as a candidate, sensitive, pr special-status species in local or regional plans, policies, or regulations, or by CDFW and USFWS.

Threshold 2: Have substantial adverse effects on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by CDFW, NMFS, or USFWS.

7-2 Project Impacts and Mitigation Measures

The proposed Floating Dry Dock Replacement and Waterfront Improvement Project is summarized by the following elements:

- Replacement of the existing floating dry dock and construction of supporting infrastructure.
- Improvements to the Repair Complex Wharf.
- Repairs to the quay wall toe of slope along stretches of shoreline throughout the NASSCO leasehold, which includes shoreline segments Lot 20 to Pier 12, floating dry dock approach pier to Berth 8, Ways to Building Dock, Berth 2 to Beth 3, Berth 4 to Berth 5, and Berth 6 to Navy Base Quay Wall.
- As-needed structural repair and/or replacement of selected piles at Berths 2, 3, 4, 5, 6, at Pier 12, and the floating dry dock approach pier, and at the Berth 1 Platform.

Total permanent overwater coverage would increase 4,170 square feet. Additionally, a total of 300 square feet of overwater coverage would be temporarily present during use of the floating dry dock's removable brow. A more detailed description of proposed work elements can be sourced from Anchor QEA 2020. Implementation of the Project would not expand the existing use of the site or result in changes of any operations.

7-2.1 Threshold 1 - Marine Resources

Threshold 1: Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by CDFW and USFWS.

In general, construction activities from implementation of the proposed Project would potentially cause construction-induced noise, increases in turbidity, increase in overwater coverage, and release of particulates and chemicals of concern into U.S. and State waters. A discussion of each of these potential construction- and operational-related impacts is provided below. Note that the impacts and mitigation measures provided in this assessment are intended to support the development of impacts and mitigation measures in the Project's Initial Study (IS). The numbering of impacts and mitigation measures may be

different in the IS and the level of development of the measures may vary as they are incorporated into the IS.

7-2.1.1 Construction Noise Impacts on Marine Resources

The use of large machinery for construction and demolition as well as pile driving could result in construction-induced noise impacts that could alter the behavior of protected species. These impacts could occur from construction activities such as hammering, drilling, operation of heavy construction equipment, or unloading building materials. Additionally, the temporary installation of new overwater berthing structures (i.e., dry docks) would also have the potential to result in similar impacts on protected species from in-water construction activities such as pile driving. Construction-induced noise impacts from landside construction activity and overwater construction activities such as pile driving could disrupt the foraging behavior of the California least tern if construction occurs during the California least tern nesting season. Other sensitive fish-foraging avian species such as brown pelican can similarly be impacted. This would be considered a significant impact without mitigation (**Impact-1**). Construction noise can also impact species protected under the Migratory Bird Treaty Act and California Fish and Game Code. For instance, marine dependent avian species such as the black-crowned night heron nest in trees near shore where there nesting activities could be disturbed by construction noise. Disturbance can cause nesting birds to abandon nest sites or alter nesting behavior in ways that lower nesting success. This would be considered a significant impact without mitigation (**Impact-2**).

In-water construction associated with proposed construction could generate enough underwater noise to physically injure marine mammals, sea turtles, and fishes should impact hammer or vibratory pile driving occur during construction. Any noise related impacts would be dependent on the type of activity being performed, the proximity to marine waters, and the biology of the considered species. In-water impact hammer or vibratory pile driving activity could potentially generate enough underwater noise to injure (Level A Harassment) or alter behavior (Level B Harassment) for marine mammals, green sea turtles, and fishes. Impacts are therefore considered significant without mitigation (**Impact-3**).

7-2.1.2 Construction Noise Mitigation Measures for Marine Resources

Mitigation measures for reducing noise related impacts on foraging California least tern and other sensitive fish feeding avian predators during nesting season (**Impact-1**) include construction monitoring during the nesting season (**Mitigation-1**). If pile driving activities occur during the nesting season (April 1 – September 15), a qualified biologist approved by the District would monitor during pile driving activities. The monitor would have the ability to reduce or temporarily stop noise producing activities if those activities were believed to impact or otherwise alter foraging behavior of sensitive avian species during the nesting season. The project applicant shall take specific actions, as approved by the District, to reduce or temporarily stop noise-producing activities if the qualified biologist identifies that the activities are impacting the foraging behavior of sensitive avian species. These actions shall include, but not be limited to the installation of sound barriers, reducing intensity of pile driving, and restricting pile driving to periods when sensitive avian species are not present. Implementation of **Mitigation-1** would reduce impacts to foraging California least terns and other sensitive fish feeding avian predators during the nesting season to less than significant by minimizing the effects of noise producing activities that could alter foraging behavior.

While disturbance of nesting marine dependent avian species (**Impact-2**) is not anticipated due to the lack of nesting habitat within the Project site, disturbance can be minimized by ensuring that nesting bird behavior is not modified during construction activities that generate loud noises. Project proponents would be required to retain a qualified biologist to perform a nesting bird survey within 500 feet of the

noise generating activity one week prior to the start of construction utilizing heavy equipment, and if nests are found, survey once per week during construction until use of heavy equipment ceases (**Mitigation-2**). If noise levels are anticipated to be 10dBA or greater above ambient background noise levels within the vicinity of an active nest, the qualified biologist shall monitor noise levels daily and establish a no-disturbance buffer around each nest site. Distance from the nest would be determined by the qualified biologist based on the species nesting and the noise acceptability exhibited by the bird. If noise effects cannot be minimized, construction shall be altered, to the extent necessary and as approved by the District to ensure that impacts to the nesting species are negligible. Implementation of **Mitigation-2** would reduce impacts on nesting marine dependent avian species to less than significant by implementing the measures to minimize noise impacts on active nests.

Potential impacts on marine mammals and green sea turtles (**Impact-3**) can be minimized by implementing the various measures required under mitigation measure **Mitigation-3**. This mitigation measure requires development of a marine mammal monitoring plan and subsequent monitoring of hauled out marine mammals whenever noise generating activities are in excess of 90 dB root mean square (RMS) for harbor seals and 100 dB RMS for non-harbor seals (sea lions) at the haul out locations or if the haul out is within 500 feet of the noise source. These criteria are established by NOAA NMFS as noise levels for a Level B harassment (behavior alteration) of marine mammals when those mammals are hauled out. Protecting marine mammals against Level B harassment when hauled out also ensures protection against Level A harassment (injury). If marine mammals are hauled out within the zone where sound thresholds are exceeded, then the biological monitor will notify the contractor to halt or alter the noise generating activity such that construction noise is at or below 90 dB RMS or 100 dB RMS for harbor seals and non-harbor seals, respectively. The zones of influence to thresholds for harassment of hauled out marine mammals is provided in I&R 2022.

For portions of the proposed project that generate in water noise such as impact and vibratory pile driving, the biological monitor will monitor for marine mammals when in the water within isopleth distances calculated (I& R 2022) to be within the range of sound thresholds established by NOAA NMFS for Level A and Level B harassment of marine mammals (NMFS 2018). Like monitoring for hauled out animals, the biological monitor will have the authority to halt or modify work based on animal observations relative to monitoring isopleths. Green sea turtles will be monitored using the maximum calculated isopleth for Level B harassment of marine mammals; there is no specific guidance for sea turtles, but they are often monitored alongside marine mammals to ensure their protection.

In addition, Project activities where impact hammer and vibratory pile driving occurs shall utilize a soft start for pile driving. This generally means performance of three pile strikes at reduced (approximately 50%) force, then waiting 30 seconds. This is repeated three times before starting pile driving at full force. This measure provides time for marine mammals, green sea turtles, and fishes to disperse from the sound source area in the event the sound is a source of stress for the animal. Implementation of **Mitigation-3** would reduce impacts to less than significant.

7-2.1.3 Construction Water Quality Impacts on Marine Resources

Construction activities associated with structural pile repair and replacement, quay wall toe of slope repairs, and repair complex wharf improvement could increase levels of turbidity in waters within the Bay in the absence of regulations. This could occur either during activities such as pile driving, incidentally during vessel contact with bottom substrate, and by propeller wash in shallower water.

Increases in turbidity in water may occur as a result of displaced sediment from construction activities. In general, increased turbidity could limit the ability of California least terns and other sensitive fish-foraging avian species to locate prey. Construction activities could potentially result in impacts on protected species by the inadvertent introduction of pollutants such as fuel, oil, and/or other industrial and mechanical fluids into waters of the U.S., either from construction equipment, landside construction vehicles, construction vessels, and from partially completed overwater structures. Additionally, disruption to eelgrass can occur due to increased turbidity. Prolonged increases in turbidity can reduce primary productivity associated with eelgrass because turbid water prevents sunlight from reaching this primary producer and sensitive species. These impacts would be considered a significant impact without mitigation (**Impact-4**)

7-2.1.4 Construction Water Quality Mitigation Measures on Marine Resources

Turbidity generated by in water construction activities (**Impact 4**) can be reduced by implementing various measures required under **Mitigation-4**. These measures include contractor education. Vessel operators shall be instructed regarding the impacts of propeller wash with regards to erosion of sediment and suspension of fine particulates; this will allow vessel operators to adjust operations, when possible, in ways that lessen impact. All vessels would be required to use depth sounders which are routinely checked to ensure vessels are positioned to avoid shallow water areas to the extent practical. Finally, when construction involves necessary bottom disturbance such as dredging or pile driving, silt curtains would be in place around the activity to limit the spread of any turbidity generated during the bottom disturbing activity. As such, **Mitigation-4** would reduce impacts to less than significant. Potential impacts associated with turbidity and bottom disturbance that might reduce the extent of eelgrass is identified under Threshold 2 (**Impact-6**) and the associated mitigation measures are provided as **Mitigation-6**.

7-2.1.5 Operational Overwater Cover and Shading Impacts on Marine Resources

The operational impacts associated with overwater cover are introduced by the temporary dry dock structures and the repair complex wharf improvement. The installation and use of overwater structures would result in temporary and permanent reduction of potential open water foraging habitat for California least tern and other sensitive fish-foraging species. The overwater coverage also leads to lower eelgrass productivity due to shading if the overwater structure is above eelgrass. Similarly, structures on shore that increase shading of water area will lower eelgrass productivity where eelgrass is shaded. The effect will increase as the structure gets closer to the water and as the height of the structure increases. Additionally, solar aspect will influence the level of impact. Structures that face the sun to the south with water to the north will result in a greater temporal impact from shading. The lost eelgrass productivity impacts all higher trophic levels due to the lost production of organic carbon. The impacts to California least tern associated with overwater coverage are considered a significant impact (**Impact 5**). Potential impacts associated with overwater cover and shading that might reduce the extent of eelgrass is identified under Threshold 2 (**Impact-6**) and the associated mitigation measures are provided as **Mitigation-6**.

7-2.1.6 Operational Overwater Cover Mitigation Measures for Marine Resources

Overwater cover from permanent structures can be mitigated in-kind if feasible, or out-of-kind if in-kind options are not available. Mitigation measure **Mitigation-5** includes a variety of suitable options for mitigating impacts associated with **Impact-5**. These options can be implemented either individually or in combination, as may be required through consultation with applicable resource agencies during permitting processes, including but not limited to, NMFS, USFWS, RWQCB, and/or USACE, to offset impacts from permanent overwater coverage. The in-kind option includes removal of existing overwater coverage at a 1:1 mitigation ratio at other locations within the Project site. Out-of-kind mitigation could include creation or restoration of eelgrass habitat at a 1:1 mitigation ratio to improve fisheries and

associated wildlife beneficial uses in consultation with regulatory agencies identified above, and/or contribution to an approved mitigation bank. Implementation of **Mitigation-5** would reduce the potential permanent overwater coverage impacts (**Impact-5**) to less than significant.

7-2.2 Threshold 2 – Marine Resources

Threshold 2: Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by CDFW, NMFS, or USFWS.

7-2.2.1 Construction Related Impacts to Marine Resources

Eelgrass beds are both the primary biologically important habitat associated with submerged soft-bottom substrate in the Project site and are managed by NMFS as EFH. In addition, the Magnuson-Stevens Fishery Management and Conservation Act designates HAPC that provide notable contributions to ecological processes.

Proposed construction activities have the potential to have a substantial adverse effect on sensitive marine habitats such as eelgrass. These activities include temporary new placement of the dry dock structure, structural pile repair and replacement, quay wall tow of slope repairs, and repair complex wharf improvements. Construction related impacts that could result from these proposed activities could result from increased turbidity from support vessels, equipment, installation of structures and piles, and shading from support vessels, barges, and relocation of the dry dock structure. The operation of vessels over shallow water during construction can decrease light to the seafloor by increasing turbidity from propeller wash or direct contact with the seafloor. Suspended particles reduce water clarity and can reduce the light reaching plant and algae cells. When suspended particles settle on primary producers such as periphyton, macroalgae, and eelgrass, they can further continue to prevent light from reaching the plant cells. Additionally, any contact with the seafloor where eelgrass occurs could directly dislodge and remove eelgrass and other vegetation. Although **Mitigation-4** provides for measures to reduce and restrict turbidity, in some cases eelgrass may occur within the footprint where construction vessels and turbidity curtains are placed during construction. In such cases, the contained turbidity may still impact eelgrass that is within the limits of the silt curtains and construction activity. In some locations where quay wall tow of slope repair is proposed, eelgrass is immediately adjacent to repair activities and may be impacted by placement and/or removal of material at those select locations. Additionally, extended temporary placement of the dry dock, construction support vessels, and barges could impede eelgrass growth depending on the location, height of structure, and sun angle during the presence of each structure. The construction related impacts would be significant (**Impact-6**).

The mitigation measures to reduce construction turbidity impacts to eelgrass beds are the same as those proposed under **Mitigation-4**. Impacts associated with reduced growth and cover of eelgrass or direct removal of eelgrass during construction would be mitigated by mitigation measures identified under **Mitigation-6**. **Mitigation-6** would follow guidelines set by the CEMP (NMFS 2014). Pre- and post-construction eelgrass surveys would be required at the construction site and a suitable reference area. The final calculation of mitigation requirements should occur after the post-construction monitoring Should losses to eelgrass occur, mitigation should be carried out in accordance with the CEMP at or before the time of impact in a manner that conservatively mitigates for all potential impacts to eelgrass. Mitigation by replanting or restoring eelgrass should follow the CEMP's eelgrass restoration ratio of 1.2:1. Any implemented eelgrass mitigation site shall be monitored for 5 years to ensure successful eelgrass establishment in accordance with the CEMP. **Mitigation-4** and **Mitigation-6** would reduce potential temporary water quality, eelgrass shading, or direct removal impacts to eelgrass (**Impact-6**) to less than significant.

7-3 Impacts and Mitigation Summary

The below summary is a brief synopsis of the impacts and mitigation measures identified above. The summary below and the text above detailing the impacts and mitigation measures are intended to inform the IS. Through the development of the IS the mitigation measures may be expanded and further developed.

7-3.1 Summary

Impact-1: Construction-induced noise impacts disrupting foraging behavior of California least tern and other fish-foraging avian species.
Mitigation-1: Implement construction measures to eliminate noise impacts to California least tern.

Impact-2: Construction noise impacts on nesting behavior of marine dependent species protected under the Migratory Bird Treaty Act and California Fish and Game Code.
Mitigation-2: Implement construction noise measures to eliminate noise impacts on sensitive nesting avian species.

Impact-3: In-water pile driving activity could generate noise levels that could injure (Level A harassment) or alter the behavior of (Level B harassment) marine mammals, green sea turtles, and fishes.
Mitigation-3: Implement a marine mammal and green sea turtle monitoring program during pile installation activities.

Impact-4: Increased water turbidity from disturbance of submerged sediments during in-water construction would limit the ability of protected fish-foraging avian species to locate prey and can disrupt eelgrass productivity.
Mitigation-4: Implement construction measures to eliminate water quality impairment impacts on California least tern, other sensitive fish-foraging avian species, and eelgrass.

Impact-5: Permanent overwater coverage from new overwater structures would reduce available open water foraging space for protected avian species and depress primary production of eelgrass.
Mitigation-5: Implement overwater coverage mitigation in coordination with the appropriate resource agencies to compensate foe loss of open water habitat.

Impact-6: Temporary water quality and sedimentation impacts to eelgrass beds during project construction.
Mitigation-6: Implementation eelgrass mitigation and monitoring in compliance with the California Eelgrass Mitigation Policy.

7-3.2 Level of Significance After Mitigation

Implementation of **Mitigation-1** would reduce potential noise related impacts on foraging California least tern and other sensitive fish feeding avian predators during the nesting season (**Impact-1**) to less than significant by requiring construction monitoring during the nesting season by a qualified biological monitor. The monitor would have the ability to reduce or temporarily stop noise producing construction activities if those activities were believed to impact or otherwise alter the foraging behavior of sensitive avian species during the nesting season.

Impacts associated with disturbance of nesting marine dependent avian species (**Impact-2**) would be reduced to less than significant by **Mitigation-2**, which requires preconstruction surveys and, if nests are detected, noise monitoring to ensure that noise levels do not exceed 10 dBA above ambient levels. In the event noise exceedances occur or disruption of nesting behavior is observed, **Mitigation-2** provides for actions that can be taken to protect nesting marine dependent avian species from the noise generating activity and the nest.

Implementation of **Mitigation-3** would reduce impacts on marine mammals, green sea turtles, and fishes (**Impact-3**) to less-than-significant levels by identifying when the species are approaching or within the designated isopleth for Level B harassment and halting in-water pile driving activities until the species has left the construction area.

Implementation of **Mitigation-4** would reduce impacts associated with **Impact-4** to less than significant levels by requiring implementation of training and construction measures, such as silt curtains, which will protect the foraging behavior of sensitive avian species from turbidity impacts. The measures would also prevent water quality impacts to eelgrass in areas surrounding the activity.

Implementation of **Mitigation-5** would reduce **Impact-5** to less-than-significant levels by requiring implementation of any combination of the following mitigation options at a 1:1 ratio for no net increase in overwater coverage per the CWA: removing overwater coverage within the Project site or restoring or creating eelgrass habitat at a suitable mitigation site of equivalent size and value within San Diego Bay. Implementation of **Mitigation-5** would reduce **Impact-5** to less-than-significant levels

Implementation of **Mitigation-6** would monitor for impacts associated with **Impact-6** to confirm less than significant levels of impact or to monitor for potential significant levels of impact. **Mitigation-6** would require monitoring and mitigation in accordance with the CEMP for impacts associated with **Impact-6**.

8 Discussion

The biological communities present within the designated study area are typical of the bays and shorelines in the region, and are not notably diverse, unique, or sensitive, with one exception being the eelgrass HAPC mapped in primarily intertidal and shallow subtidal vegetated habitat regions. Fish and invertebrate species that were observed during SCUBA surveys throughout the study area are generally considered common through the bays and shorelines of the region and would generally not be put at risk by activities such as those proposed by this Project.

The marine habitat within the Project site is generally composed of intertidal and shallow subtidal hard bottom, subtidal unvegetated soft bottom, and intertidal and shallow subtidal vegetated soft bottom habitat (eelgrass). Flora and fauna observed within the Project site were typical of species likely to occur

within San Diego Bay. Neither sensitive nor unique species were observed during the survey. However, commercially, and recreationally important California lobster was observed throughout the Project site associated with hard bottom habitat and scattered rock and debris items beyond the hard bottom habitat mapped in Figure 5.

The proposed Project would consist of construction and operational activities in marine environments. Construction related impacts on marine resources that could occur from this Project include construction-induced noise impacts, increases in turbidity, increase in overwater coverage, and release of particulates and chemicals of concern into U.S. or State waters.

Construction-induced noise impacts from overwater and in water construction activities such as pile driving could disrupt the foraging behavior of the California least tern and other sensitive fish-foraging avian species (**Impact-1**). Construction noise can also impact marine dependent species protected under the MBTA and California Fish and Game Code by causing nesting birds to abandon nest sites or alter nesting behavior in ways that lower nesting success (**Impact-2**). Furthermore, in-water construction activities could generate enough underwater noise to physically injure marine mammals, sea turtles, and fish should impact hammer or vibratory pile driving occur during construction (**Impact-3**). However, the implementation of **Mitigation-1** through **Mitigation-3** would reduce these project level impacts to less than significant. In-water construction activities that involve bottom sediment disturbance would also potentially result in temporary increases in turbidity, which could limit the ability of California least terns and other sensitive fish-foraging avian species to locate prey (**Impact-4**). However, this Project level impact would be reduced to less than significant with implementation of **Mitigation-4**, which requires implementation of various construction measures to reduce turbidity and its effects on foraging. Additionally, the increase of overwater structures would result in increased overwater coverage, which can impact foraging opportunities for sensitive fish-foraging species and lowered primary productivity due to shading (**Impact-5**). However, overwater cover from permanent structures can be mitigated in-kind if feasible, or out-of-kind if in-kind options are not available as required by **Mitigation-5**. Implementation of **Mitigation-5** would reduce the Project level impact to less than significant.

Construction of the proposed Project has the potential to have adverse effects on sensitive marine habitats such as eelgrass (**Impact-6**). The placement of the proposed drydock occurs over subtidal unvegetated soft bottom habitat where no sensitive species or unique habitats were observed. Impacts from the placement of drydocks may occur indirectly by altering the sunlight attenuation to the seafloor through reduced available sun angle. Where dry docks occur offshore of eelgrass beds late afternoon sun would be reduced by the drydock structure blocking light during certain hours of the day when sunrays are coming from the west. The overall impact from drydock placement is negligible because it does not occur near eelgrass beds.

Similar to the placement of proposed drydocks, repair complex wharf improvements are proposed over unvegetated soft bottom habitat and do not occur near eelgrass resources. Permanent impacts are likely to occur from shading to the seafloor caused by wharf improvement where the wharf and fender system extend beyond the current footprint. However, eelgrass resources were not found within the proposed wharf expansion or near the location of proposed wharf expansion. As a result, it is unlikely that repair complex wharf improvements would impact eelgrass resources within the Project site.

Structural pile repair and replacement and quay wall toe of slope repairs occurs near eelgrass habitat within the Project site. Eelgrass is present along the tow of hard substrate present in areas west of berth 10, east of berth 8, and between berths 2 through 6. In these regions indirect impacts to eelgrass are

possible. The degree to which eelgrass could be impacted in these areas cannot yet be determined. Given the potential for unpredictable impacts to eelgrass implementation of mitigation measures **Mitigation-4** and **Mitigation-6** would reduce Project related impacts from potential temporary eelgrass shading or direct removal (**Impact-6**) to less than significant.

In general, the Project should seek to avoid impacting eelgrass during construction. Indirect impacts may arise due to disturbance by construction vessels, pile installation, quay wall toe of slope repairs, or increased turbidity. To avoid these impacts, Project implementation should minimize shading associated with staging of vessels or dock structures. Construction crews should incorporate techniques that avoid suspension of sediment that could reduce light transmittance through the water or settle on eelgrass directly. This includes the use of silt curtains to contain suspended sediments during pile installation and quay wall repairs. The proposed Project may result in potentially significant impacts on marine resources; however, all impacts may be reduced to less than significant with implementation of the mitigation measures described above.

It is not anticipated that the green sea turtle and other sensitive species noted above would be significantly impacted by the proposed improvement or construction activities. The potential loss of foraging habitat (eelgrass) is a concern relative the green sea turtles, but that loss is likely minimal and would be mitigated for according to the CEMP. However, the pile driving associated with structural pile replacement and repair complex wharf components may produce noise levels that can cause behavioral disruption of marine mammals and green sea turtles.

Many species of pacific coast groundfish, coastal pelagic, and estuarine species utilize eelgrass habitat at some life stage. The eelgrass surveyed within the Project site contained a moderate diversity of marine vertebrate and invertebrate species, indicating that they function to some degree of importance to marine species persisting in the area and/or migrating through the area. Additionally, eelgrass (seagrass) is listed as an HAPC and as such is a protected and monitored resource.

The purpose of this assessment was to determine whether proposed Project activities would have any effect to the surrounding marine environment, or to the marine flora and fauna reliant on the resources provided by this marine environment. Based on the analyses previously described in this assessment, it has been determined that any potential impacts caused by the Project to the marine environment, sensitive species, and marine mammals can be reduced to less than significant and impacts would be reduced if mitigation measures are followed.

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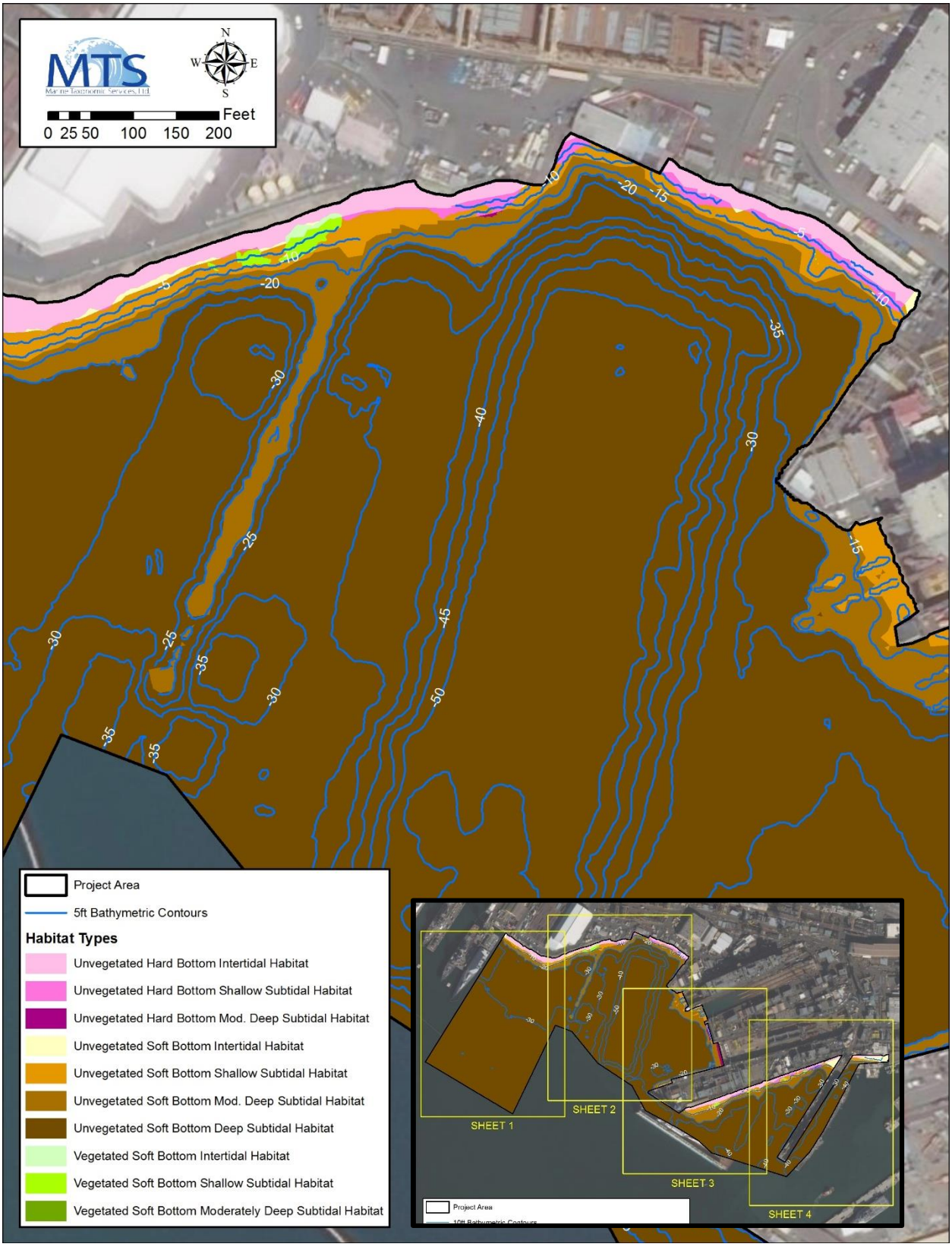
Appendix A: Habitat Map Sheet Set

SHEET 1

Figure A-1. Habitat map sheet 1.

SHEET 2



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SHEET 3

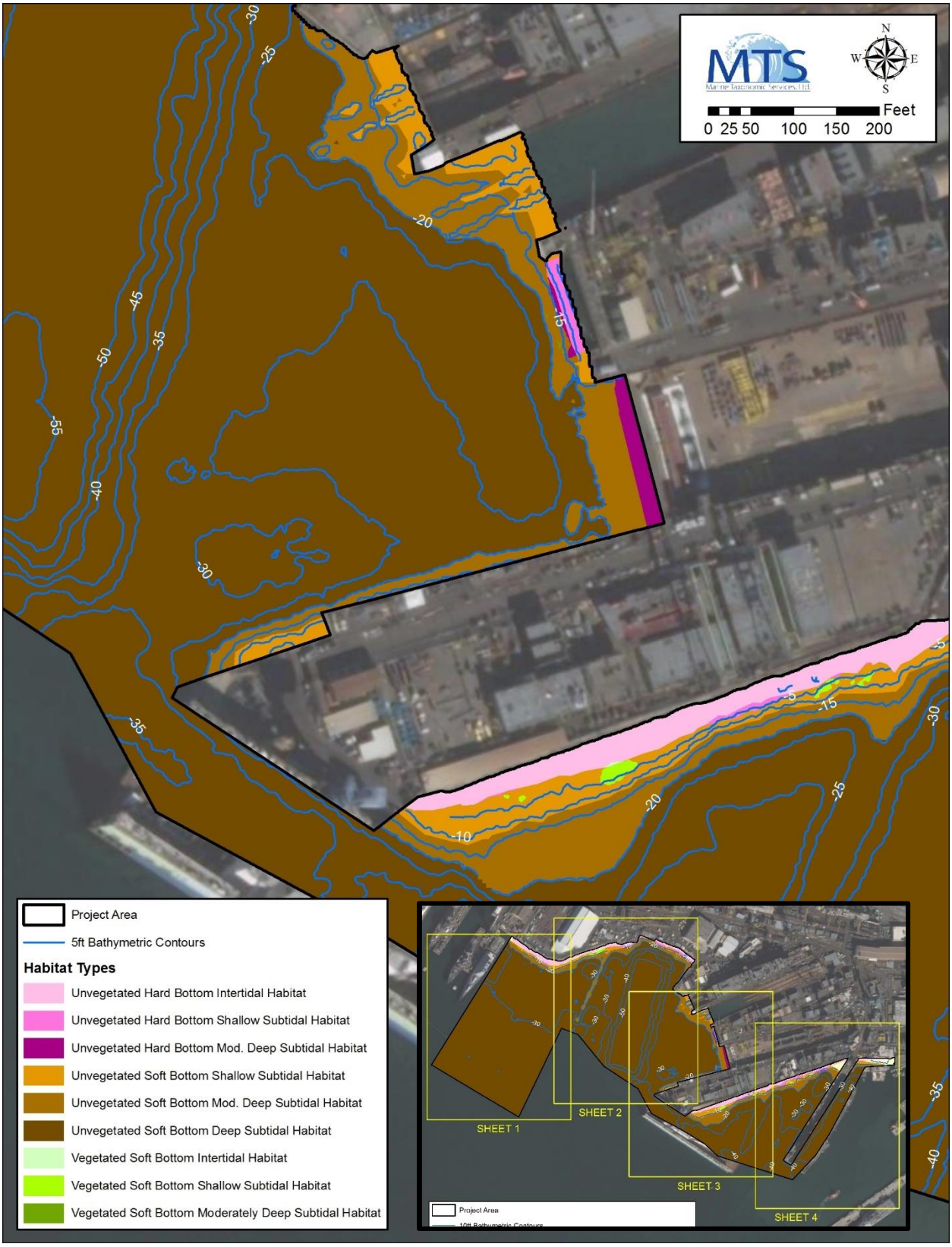

Figure A-3. Habitat map sheet 3.

SHEET 4

Figure A-4. Habitat map sheet 4.

Appendix B: Eelgrass Map Sheet Set

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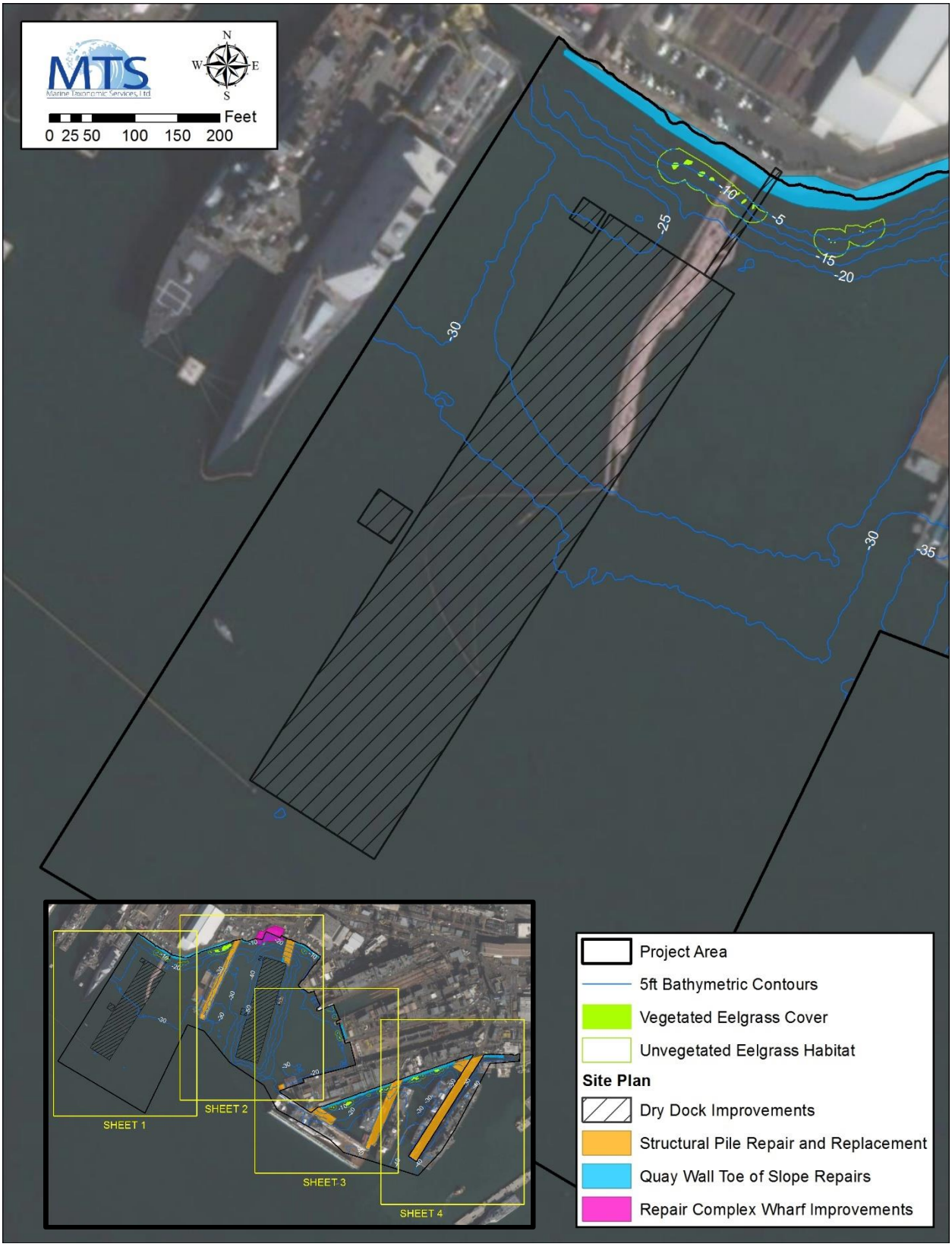


Figure B-1. Eelgrass map sheet 1.

SHEET 2

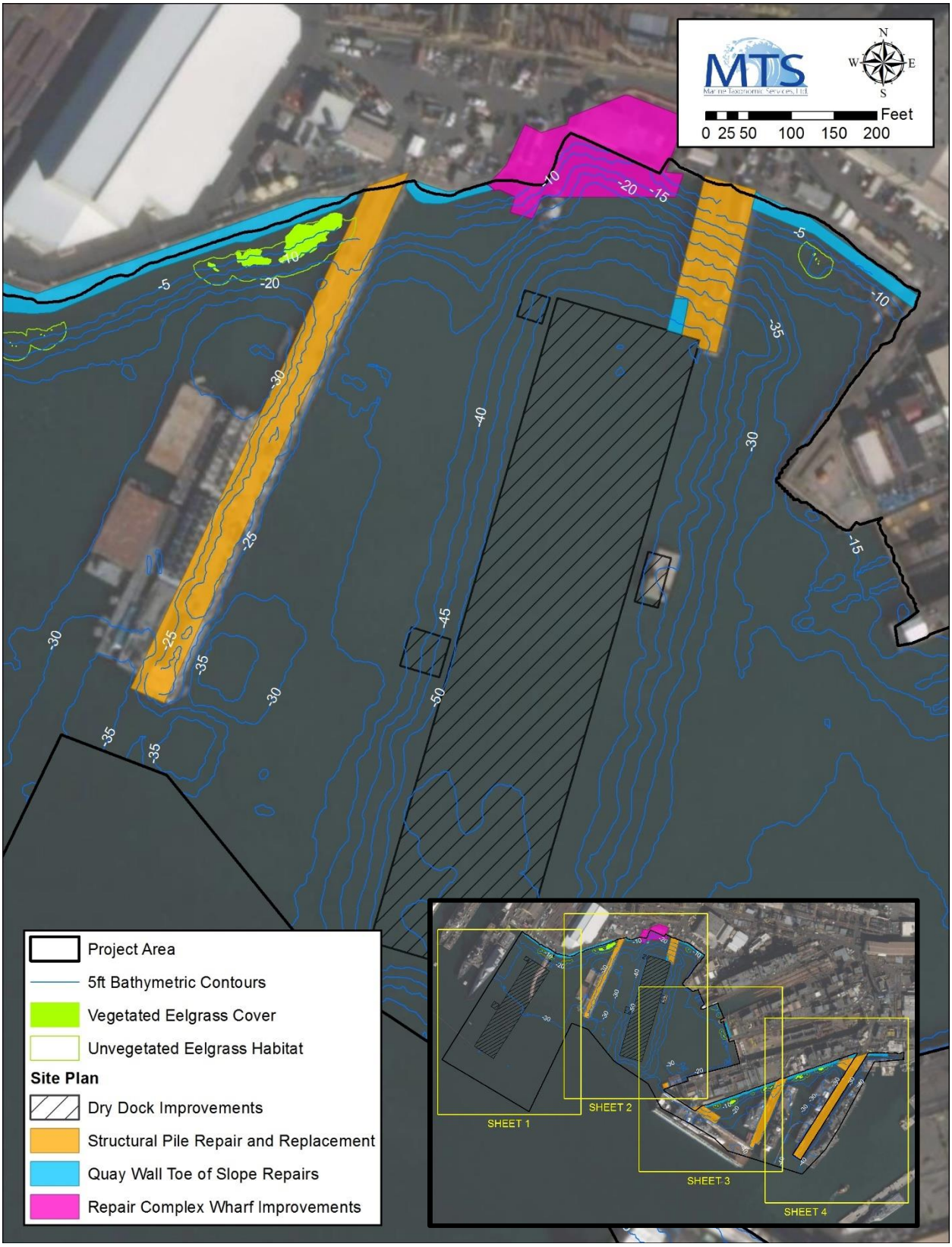


Figure B-2. Eelgrass map sheet 2.

SHEET 3

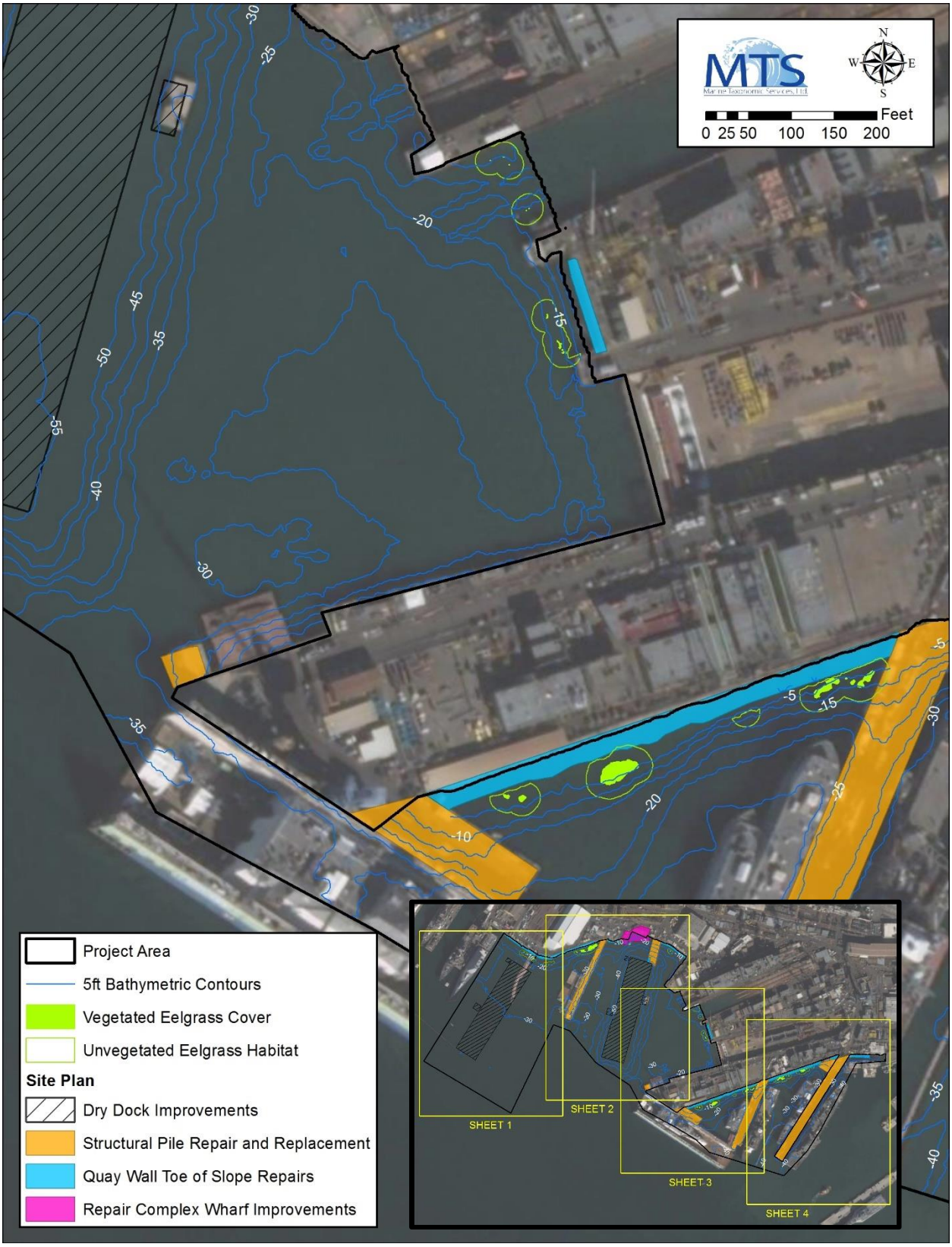


Figure B-3. Eelgrass map sheet 3.

SHEET 4

Figure B-4. Eelgrass map sheet 4.

Appendix C

Underwater Acoustical Assessment

PORT OF SAN DIEGO NASSCO FLOATING DRYDOCK AND WATERFRONT IMPROVEMENT PROJECT –

UNDERWATER ASSESSMENT

San Diego, California

June 28, 2021
Revised: Feb 10, 2022

Prepared for:

Charlie Richmond
Senior Environmental Director
Ascent Environmental
1230 Columbia Street, Suite 440
San Diego, CA 92101-8517

Prepared by:

Adwait Ambaskar
James Reyff
ILLINGWORTH & RODKIN, INC.
Acoustics • Air Quality
429 East Cotati Avenue
Cotati, CA 94931
(707) 794-0400

I&R Job No.: 21-047

INTRODUCTION

This study is an assessment of potential sound levels generated by planned construction of the NASSCO Floating Drydock and Waterfront Improvement Project (NASSCO) at the Port of San Diego in San Diego, California. The proposed project involves replacing a floating dock that has reached the end of its useful life and completing waterfront improvements, such as repairing, replacing, and expanding specific infrastructure to improve functionality and operational safety within the NASSCO leasehold, which is located at 2798 East Harbor Drive. The project site is located within the Harbor Drive Industrial Subarea of Planning District 4 (Tenth Avenue Marine Terminal) of the certified Port Master Plan. Specific project elements include the following:

- Removal and replacement of the existing floating drydock and construction of supporting infrastructure;

- Improvements to the Repair Complex Wharf;

- Repairs to the quay wall toe of slope along stretches of shoreline throughout the NASSCO leasehold, which includes shoreline segments Lot 20 to Pier 12, floating dry dock approach pier to Berth 8, Ways to Building Dock, Berth 2 to Berth 3, Berth 4 to Berth 5, and Berth 6 to Navy Base Quay Wall; and

- As-needed structural repair and/or replacement of selected piles at Berths 2, 3, 4, 5, 6, and 12 and the Floating Drydock Approach Pier, and the Berth 1 Platform.

Attachment 1 shows the Existing and Proposed Improvements.

This report includes the prediction of underwater sound levels calculated based on the results of measurements for similar projects. Predicted underwater sound levels are compared against interim thresholds that have been accepted by the National Oceanic and Atmospheric Administration (NOAA). The estimated number of strikes for impact driving was provided by the applicant. The duration of vibratory driving for the installation and removal of each pile was estimated based on experience with other projects.

UNDERWATER SOUNDS FROM PILE DRIVING ACTIVITIES

Fundamentals of Underwater Noise

When a pile driving hammer strikes a pile, a pulse is created that propagates through the pile and radiates sound into the water, the ground, and the air. Sound pressure pulse as a function of time is referred to as the waveform. In terms of acoustics, these sounds are described by the peak pressure, the root-mean-square pressure (RMS), and the sound exposure level (SEL). The peak pressure is the highest absolute value of the measured waveform and can be a negative or positive pressure peak. For pile driving pulses, RMS level is determined by analyzing the waveform and computing the average of the squared pressures over the time that comprises that portion of the

waveform containing the sound energy.[1] The pulse RMS has been approximated in the field for pile driving sounds by measuring the signal with a precision sound level meter set to the "impulse" RMS setting and is typically used to assess impacts to marine mammals. Another measure of the pressure waveform that can be used to describe the pulse is the sound energy itself. The total sound energy in the pulse is referred to in many ways, most commonly as the "total energy flux."[2] The "total energy flux" is equivalent to the un-weighted sound exposure level (SEL) for a plane wave propagating in a free field, a common unit of sound energy used in airborne acoustics to describe short-duration events. The unit used is dB re 1 μPa^2-sec. In this report, peak pressures levels are expressed in decibels re 1 µPa; however, in other literature they can take varying forms such as a Pascals or pounds per square inch. The total sound energy in an impulse accumulates over the duration of that pulse. How rapidly the energy accumulates may be significant in assessing the potential effects of impulses on fish. Figure 1 illustrates the acoustical characteristics of an underwater pile driving pulse. Table 1 includes the definitions of terms commonly used to describe underwater sounds.

The variation of instantaneous pressure over the duration of a sound event is referred to as the waveform. The waveform can provide an indication of rise time or how fast pressure fluctuates with time; however, rise time differences are not clearly apparent for pile driving sounds due to the numerous rapid fluctuations that are characteristic to this type of impulse. A plot showing the accumulation of sound energy over the duration of the pulse (or at least the portion where much of the energy accumulates) illustrates the differences in source strength and rise time. An example of the underwater acoustical characteristics of a typical pile driving pulse is shown in Figure 1.

SEL is an acoustic metric that provides an indication of the amount of acoustical energy contained in a sound event. For pile driving, the typical event can be one pile driving pulse or many pulses such as pile driving for one pile or for one day of pile driving. Typically, SEL is measured for a single strike and a cumulative condition. The cumulative SEL associated with the driving of a pile can be estimated using the single strike SEL value and the number of pile strikes through the following equation:

$$SEL_{cumulative} = SEL_{single-strike} + 10log(\#of\ pile\ strikes)$$

For example, if a single strike SEL for a pile is 165 dB and it takes 1000 strikes to drive the pile, the cumulative SEL is 195 dBA (165 dB + 30 dB = 195 dB), where 10 * $Log_{10}(1000) = 30$.

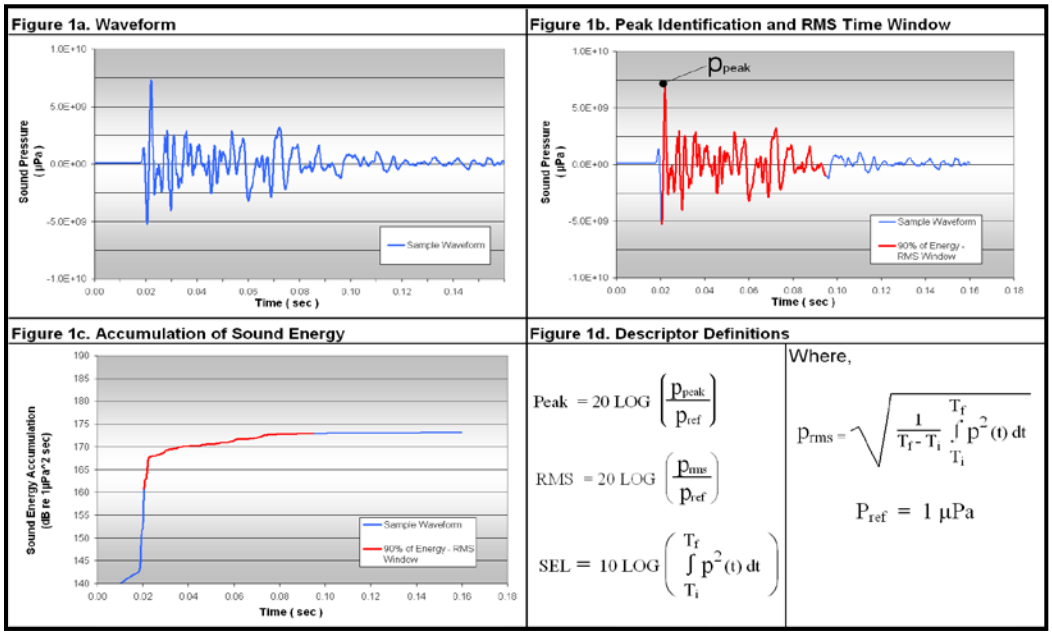
[1] Richardson, Greene, Malone & Thomson, *Marine Mammals and Noise*, Academic Press, 1995, and Greene, personal communication.

[2] Finerran, et. al., *Temporary Shift in Masked Hearing Thresholds in Odontocetes after Exposure to Single Underwater Impulses from a Seismic Watergun*, Journal of the Acoustical Society of America, June 2002.

TABLE 1 Definition of Underwater Acoustical Terms

Term	Definition
Peak Sound Pressure, unweighted (dB)	Peak sound pressure level based on the largest absolute value of the instantaneous sound pressure. This pressure is expressed in this report as a decibel (referenced to a pressure of 1 µPa) but can also be expressed in units of pressure, such as µPa or PSI.
Root-Mean-Square (RMS) Sound Pressure Level, (NMFS Criterion) dB re 1µPa	The square root of the average of the squared pressures over the time that comprise that portion of the waveform containing 90 percent of the sound energy for one pile driving impulse.[3] This measure is typically used to assess acoustical impacts to marine mammals.
Sound Exposure Level (SEL), dB re 1 µPa^2-sec	Proportionally equivalent to the time integral of the pressure squared and is described in this report in terms of dB re 1 µPa^2-sec over the duration of the impulse. Similar to the unweighted Sound Exposure Level (SEL) standardized in airborne acoustics to study noise from single events.
Cumulative SEL	Measure of the total energy received through a pile-driving event (here defined as pile driving that occurs with a day).
Waveforms, µPa over time	A graphical plot illustrating the time history of positive and negative sound pressure of individual pile strikes shown as a plot of µPa over time (i.e., seconds).
Frequency Spectra, dB over frequency range	A graphical plot illustrating the distribution of sound pressure vs. frequency for a waveform, dimension in rms pressure and defined frequency bandwidth.

FIGURE 1 Underwater Acoustical Characteristics of a Pile Driving Pulse



[3] The underwater sound measurement results obtained during the Pile Installation Demonstration Project indicated that most pile driving impulses occurred over a 50 to 100 millisecond (msec) period. Most of the energy was contained in the first 30 to 50 msec. Analysis of that underwater acoustic data for various pile strikes at various distances demonstrated that the acoustic signal measured using the standard "impulse exponential-time-weighting" (35-msec rise time) correlated to the RMS (impulse) level measured over the duration of the impulse.

Underwater Sound Thresholds

Fish

A Fisheries Hydroacoustic Workgroup (FHWG) that consisted of transportation officials, resources agencies, the marine construction industry (including Ports), and experts was formed in 2003 to address the underwater sound issues associated with marine construction. The first order of business was to document all that was clearly known about the effects of sound on fish. The result of this effort was a report prepared by Dr. Mardi Hastings and Dr. Arthur Popper, titled Effects of Sound on Fish.[4] This report provided recommended preliminary guidance to protect fish. Research to further investigate the effects of pile driving sounds on fish was also recommended in this report. Some of these recommendations were taken up in an ongoing National Cooperative Highway Research Program (NCHRP 25-28). This NCHRP study is intended to develop guidelines for the prediction and mitigation of the impacts on fish from underwater sound pressure and particle motion caused by pile driving.

To provide additional explanation of the injury criteria recommended in the "Effects of Sound on Fish" and to provide a practical means to apply the criteria, Caltrans commissioned Dr. Popper and other leading experts to prepare a subsequent report. This report is entitled "Interim Criteria for Injury of Fish Exposed to Pile Driving Operations: A White Paper," (*White Paper*).[5] This *White Paper* recommended a dual criterion for evaluating the potential for injury to fish from pile driving operations. The dual approach considered that a single pile strike with high enough amplitude, as measured by zero to peak (either negative or positive pressure) could cause injury. To account for the energy in a single strike, the SEL metric proposed by Hastings and Popper[4] was included as the second part of the dual criteria.

On June 12, 2008, NOAA's National Marine Fisheries Service (NMFS), U.S. Fish and Wildlife Service, California, Oregon, and Washington Departments of Transportation, California Department of Fish and Game and the U.S. Federal Highway Administration agreed in principle to interim criteria to protect fish from pile driving activities (Table 2).

TABLE 2 Adopted Fish Criteria

Interim Criteria for Injury	Sound Levels Agreed in Principle
Peak	206 dB re: 1μPa (for all size of fish)
Cumulative SEL	187 dB re: 1μPa^2-sec – for fish size of 2 grams or greater 183 dB re: 1μPa^2-sec – for fish size of less than 2 grams

The primary difference between the adopted criteria and previous recommendations is that the single strike SEL was replaced with a cumulative SEL over a day of pile driving. NMFS does not consider sound that produce a SEL per strike of less than 150 dB to accumulate and cause injury.

[4] Hastings, M and A. Popper. 2005. Effects of Sound on Fish. Prepared for the California Department of Transportation. January 28 (revised August 23).

[5] Popper, A., Carlson, T., Hawkins, A., Southall, B., and Gentry, R. 2006. Interim Criteria for Injury of Fish Exposed to Pile Driving Operations: A White Paper. May 15.

Thus, where underwater pile driving noise exceeds 206 dB or cumulatively exceeds 187 dB SEL it can cause injury to fish in that location. All fish species of concern for this project are assumed to be two grams or larger.

The adopted criteria listed in Table 2 are for pulse-type sounds (e.g., pile driving) and does not address sound from vibratory driving. The SEL criteria are not applied to vibratory driving sounds.

Marine Mammals

Under the Marine Mammal Protection Act, NMFS has defined levels of harassment for marine mammals. Level A harassment is defined as "Any act of pursuit, torment, or annoyance which has the potential to injure a marine mammal or marine mammal stock in the wild." Level B harassment is defined as "Any act of pursuit, torment, or annoyance which has the potential to disturb a marine mammal or marine mammal stock in the wild by causing disruption of behavioral patterns, including but not limited to migration, breathing, nursing, breeding, feeding or sheltering."

Table 3 below outlines the current adopted Level A and Behavioral harassment (Level B) criteria. The application of the threshold for vibratory pile driving can sometimes be problematic because this threshold level can be above the ambient noise level of certain locations. The U.S. Navy has conducted ambient underwater sound measurements in the area that characterize the sound environment at 129.2 dB[6]. For continuous sounds, NMFS Northwest Region has provided guidance for reporting RMS sound pressure levels. RMS levels are based on a time-constant of 10 seconds; RMS levels should be averaged across the entire event. For impact pile driving, the overall RMS level should be characterized by integrating sound for each acoustic pulse across 90 percent of the acoustic energy in each pulse and averaging all the RMS for all pulses.

NMFS has provided marine mammal acoustic technical guidance for predicting onset of permanent threshold shift (PTS) and temporary threshold shifts (TTS) in marine mammal hearing from sound sources.[7] For this project location, the functional hearing groups are low-frequency cetaceans (humpback and gray whales), high-frequency cetaceans (harbor porpoises), phocid pinnipeds (harbor seals) and otariid pinnipeds (Stellar and California sea lions and northern elephant seals). For impact pile driving, the majority of the acoustic energy is confined to frequencies below 2 kilohertz (kHz) and there is very little energy above 20 kHz. Similarly, for much of the acoustic energy for vibratory driving is in the frequency range below 2.5 kHz. The underwater acoustic criteria for marine mammals are shown in Table 3. Table 4 shows a summary of the functional hearing groups and their hearing ranges as defined by the NMFS guidance.

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[6] Naval Facilities Engineering Command Southwest (NAVFAC SW). 2020. *Compendium of Underwater and Airborne Sound Data During Pile Installation and In-Water Demolition Activities in San Diego Bay, California*. October 2020. Prepared by Tierra Data, Inc. Data from measurement periods in December 2014, December 2015, and April 5, 2016 (Table 49 of the report), which excluded locally influenced sound measurements at active areas, the average median (or L50) SPL over both years was 129.2 dB RMS.

[7] NMFS. 2016 Technical Guidance for Assessing the Effects of Anthropogenic Sound on Marine Mammal Hearing Underwater Acoustic Thresholds for Onset of Permanent and Temporary Threshold Shifts. July.

TABLE 3 Adopted Underwater Acoustic Criteria for Marine Mammals

Species	Underwater Noise Thresholds (dB re: 1µPa)				
	Vibratory Pile Driving Disturbance Threshold (*Level B Harassment*)	Impact Pile Driving Disturbance Threshold (*Level B Harassment*)	Marine Mammal Hearing Group (see Table 4)	PTS SEL_{cum} Threshold Peak – dB re: 1µPa SEL_{cum} – dB re: 1µPa^2-sec	
				Impulsive (*Impact Pile Driving*)	Non-Impulsive (*Vibratory Pile Driving*)
Cetaceans	129.2 dB RMS*	160 dB RMS	Low Frequency	219 dB Peak 183 dB SEL_{cum}	199 dB SEL_{cum}
			Mid Frequency	230 dB Peak 185 dB SEL_{cum}	198 dB SEL_{cum}
			High Frequency	202 dB Peak 155 dB SEL_{cum}	173 dB SEL_{cum}
Pinnipeds	129.2 dB RMS*	160 dB RMS	Phocid	218 dB Peak 185 dB SEL_{cum}	201 dB SEL_{cum}
			Otariid	232 dB Peak 203 dB SEL_{cum}	219 dB SEL_{cum}

*Threshold is 120 dB or ambient level, whichever is highest. Ambient levels were measured by the U.S. Navy at 129.2 dB in the Project area.

TABLE 4 Definition of Marine Mammal Hearing Group

Marine Mammal Hearing Groups	
Functional Hearing Group	**Functional Hearing Range**
Low Frequency Cetaceans – gray whales	7 Hz to 35 kHz
Mid Frequency Cetaceans – dolphins, toothed whales, beaked whales, bottlenose whales	150 Hz to 160 kHz
High Frequency Cetaceans – true porpoises, *kogia*, river dolphins, cehalorhynchid, *lagenorhynchus cruciger* & *L. australis*	275 Hz to 160 kHz
Phocid Pinnipeds – true seals, including harbor seals	50 Hz to 86 kHz
Otariid Pinnipeds – sea lions and fur seals	60 Hz to 39 kHz

Green Sea Turtles

For sea turtles, the Navy established a threshold for injury from vibratory pile driving and impact driving at 190 dB RMS. Behavioral effects thresholds were noted to be more complex to establish than injury, as there is limited data on turtle behavioral response to sound. Turtles exhibit a low frequency hearing range, typically below 2 kHz. As a result, the potential for behavioral response to sound is further limited to sounds at both elevated intensity and low frequency. While there are no widely adopted behavioral thresholds for sound impacts to turtles, the proposed project would include RMS criteria for Green Sea Turtles, which are summarized in Table 5.

TABLE 5 Adopted Underwater Acoustic Criteria for Green Sea Turtles

Level of Effect	Underwater Noise Thresholds (dB re: 1µPa)	
	Vibratory Pile Driving Disturbance Threshold	Impact Pile Driving Disturbance
Adaptive action trigger for impulsive noise exposure	--	160 dB RMS
Potential harassment take from exposure	--	166 dB RMS

Injury from sound exposures	190 dB RMS	190 dB RMS

Underwater Sound-Generating Activities

The primary source of underwater sound will be the vibratory and impact installation of the piles. Table 6 summarizes the proposed pile driving activities, the number of piles anticipated per day, and the number of strikes per pile for impact events. All impact events will use an APE Model D46-32 hammer (or similar), and all vibratory events will use an APE Model 200 hammer (or similar).

For pile installation with an impact hammer, the initial 20 to 25 feet will be jetted to depth, and an impact hammer will be used for the remaining five to 10 feet. The blow counts in Table 6 are conservative estimates. In addition to the pile installations summarized in Table 6, 20-inch concrete piles, round timber piles, round timber piles encased with a concrete jacket, steel H-piles, and concrete filled steel pipe piles will be removed as part of the proposed project with vibratory hammers. Temporary piles will ultimately be part of the proposed project. Based on previous Berth 6 and 7 Bulkhead Project, temporary pin piles were utilized to establish a template along the bulkhead to properly set sheet piles and king piles prior to driving. Similar techniques may be used for the proposed project.

TABLE 6 Pile Driving Activities for the Proposed Project

Project Element	Project Feature	Pile Type & Size	Total No. of Piles	No. of Piles per Day	No. of Strikes per Pile
Floating Drydock	Catwalk and Removable Brow	16-inch round or square precast concrete	2	10	1,000
	West Aft Dolphin	24-inch octagonal precast concrete	56	10	1,000
	East Aft Dolphin	24-inch octagonal precast concrete	56	10	1,000
	West Forward Dolphin	24-inch octagonal precast concrete	22	10	1,000
	East Forward Dolphin	24-inch octagonal precast concrete	22	10	1,000
	West Aft Dolphin Fender	HP14 x 89	18	10	1,000
	East Aft Dolphin Fender	HP14 x 89	18	10	1,000
	West Forward Dolphin Fender	HP14 x 89	15	10	1,000
	East Forward Dolphin Fender	HP14 x 89	15	10	1,000
	Approach Pier Fender	HP14 x 89	19	10	1,000
Repair Complex Wharf	Repair Complex Wharf Sheet pile wall and backfill	Steel sheet piles	128	5	--[a]
	Repair Complex Wharf (concrete pad)	24-inch octagonal precast concrete piles	34	10	1,000
		18-inch square precast concrete piles	24	10	1,000
	Repair Complex Wharf (fender system)	HP14 x 89 fender	20	10	1,000

[a] The sheet piles will be driven with a vibratory hammer only.

Structure pile repairs and replacement at Berths 2, 3, 4, 5, 6, and Pier 12, and the floating drydock approach pier and the Berth 1 Platform would address deficiencies in steel pipe piles, steel-jacketed concrete piles, concrete-filled steel, and steel H-piles. Approximately 100 piles would be repaired or replaced per year with a total construction duration lasting approximately 10 years. The distribution may change based on the need at the facility, but the total number would not exceed 100 per year. If condition of the structural piles is beyond repair, the piles would be replaced in kind with the same dimension and material. Table 7 summarizes the pile driving information for this project element.

TABLE 7 Pile Driving Activities for the Proposed Floating Drydock and Associated Infrastructure

Project Element	Project Feature	Pile Type & Size	Total No. of Piles	No. of Piles per Day	No. of Strikes per Pile
Structure pile repairs and replacement at Berths 2, 3, 4, 5, 6, and Pier 12, and the floating drydock approach pier and the Berth 1 Platform	Drydock Approach Pier	20-inch square precast concrete	76	10	1,000
	Berth 2 Extension	16-inch square precast concrete	19	10	1,000
		16-inch octagonal precast concrete	60	10	1,000
		13-inch steel pipe	12		--[a]
	Berths 3/4	16-inch octagonal precast concrete	195	10	1,000
	Platform Extension to Berths 3/4	13-inch steel pipe	14		--[a]
	Berths 5/6	16-inch octagonal precast concrete	96	10	1,000
		18-inch octagonal precast concrete	246	10	1,000
		14-inch steel H-piles	2	10	1,000
	Hatch Platform at Berth 5	14-inch steel H-piles	12	10	1,000
	Drydock Mooring Dolphin	20-inch square precast concrete	37	10	1,000
	Pier 12	12-inch square precast concrete	56	10	1,000
		12-inch steel pipe	119		--[a]
		12-inch square precast concrete piles	8	10	1,000
		12-inch steel H-piles	5	10	1,000

[a] Driven with a vibratory hammer

Underwater Sound Levels from Construction

This assessment predicts underwater sound levels associated with the different piling activities that are anticipated. Piling activities include the vibratory installation of steel pipe piles and steel sheet piles and the impact driving of concrete piles. The prediction of sound levels associated with this activity are based on measurements from similar activities.

In October 2020, Caltrans published the updated *Technical Guidance for Assessment and Mitigation of the Hydroacoustic Effects of Pile Driving on Fish* (referred to as the Caltrans Compendium).[8] The appendices of this document contain measurement data for numerous pile driving activities. The prediction of sound levels from pile driving activities proposed for this project relies on data collected from other sites with similar conditions. The following studies were identified to aid in predicting underwater noise levels, as well as for calculating the different distances to threshold for fishes, marine mammals and sea turtles discussed later in the report. Note that the U.S. Navy has published a compendium of sound levels associated with piling and demolition activities in San Diego Bay[9]. However, these data are only reported as the maximum levels observed, while NMFS computations typically use the median SEL and RMS sound levels or mean levels when median levels are not available. For example, use of the maximum SEL per pile strike level would greatly overestimate the accumulated SEL which assumes a equal energy hypothesis. These data were not used in this assessment. Compendium levels are summarized in *Attachment 2*.

Underwater Sound Levels from Project Pile Driving

Data in the Caltrans Compendium were reviewed for the various piling activities summarized in Table 8. The compendium provides summary data by piling activity, type, and size. Detailed information on the measurements that make up these levels are summarized in the compendium.

Much of the underwater sound impacts would be associated with impact driving of concrete piles. The U.S. Navy has published a compendium of underwater and airborne sound levels for piling and in-water demolition activities that occurred in San Diego Bay. The underwater sound levels for 24-inch concrete piles reported in this compendium are significantly louder than all other available data sets that are summarized in the Caltrans Compendium and other compendiums published by the U.S. Navy[8,10]. The reported sound levels for those activities in San Diego Bay were over 10 to 15 dB higher than other data. Therefore, this data is considered an outlier and not used in this assessment.

[8] Caltrans. *Technical Guidance for Assessment and Mitigation of the Hydroacoustic Effects of Pile Driving on Fish*. October 2020. Document prepared by ICF International and Illingworth & Rodkin, Inc. under contract to Caltrans. Report No. CTHWANP-RT-20-365.01.04.

[9] Naval Facilities Engineering Command Southwest (NAVFAC SW). 2020. *Compendium of Underwater and Airborne Sound Data During Pile Installation and In-Water Demolition Activities in San Diego Bay, California*. October 2020. Prepared by Tierra Data, Inc.

[10] United States Navy. 2015. *Proxy source sound levels and potential bubble curtain attenuation for acoustic modeling of nearshore marine pile driving at Navy installations in Puget Sound*. Prepared by Michael Slater, Naval Surface Warfare Center, Carderock Division, and Sharon Rainsberry, Naval Facilities Engineering Command Northwest. Revised January 2015.

TABLE 8 Measured Levels for Piling Activities

Driving Method	Pile Type	Size	Sound Pressure Level Measured in dB re: 1µPa at 10 meters			Notes
			Peak	RMS	SEL	
Impact	Concrete	12-in. Round or Square	190	172	160	Average of 2 different similar projects (16- to 20-in. dia.). Note available measurements for 12- and 14-inch piles are limited and in very shallow water.
Impact	Concrete	14-in. Round or Square				
Impact	Concrete	16-in. Round or Square				
Impact	Concrete	18-in. Round or Square				
Impact	Concrete	20-in. Round or Square	187	175	167	Averaged of 6 different similar projects (24-in. dia.). Note outlier low measurements not used
Impact	Concrete	24-in. Octagonal				
Impact	Steel H (HP 12x89)	12-in.	200	178	166	Used 12-in. H pile impact data for Parsons Slough that had higher levels than reported 14-in piles.
Impact	Steel H (HP 14x89)	14-in.				
Vibrate	Steel Pipe	13-in.	172	160	--	Used one project (Mad River Slough)
Vibrate	Steel Sheet	--	177	163	--	Average of 3 projects in deeper water for 24-in AZ sheet piles

Prediction of Underwater Sound Levels from Project Pile Driving

Table 9 shows the sound levels expected at 10-meter distances from different pile driving activities expected from the project (as shown in Table 6). Included are the unattenuated sound levels (Peak, RMS, SEL) expected, also at a distance of 10 meters from the piles. This table also shows levels corresponding to a 5 dB attenuation owing to different attenuation mechanisms like bubble curtains, isolation casing etc. that may be used during the pile driving activities. These levels have been taken from past projects that give a good estimate of the levels one can expect from the different pile driving activities proposed for the project. Impacts to fishes, marine mammals and turtles are then calculating using these levels (both unattenuated and attenuated).

TABLE 9 Sound levels used for analyzing marine mammal impacts for different pile types and sizes as per project requirements

Driving Method	Pile Type	Size	Sound Pressure Level (dB re: 1µPa at 10 meters)			Sound Pressure Level (dB re: 1µPa at 10 meters)		
			UNATTENUATED			ATTENUATED[1]		
			Peak	RMS	SEL	Peak	RMS	SEL
Impact	Concrete	12-in. Round or Square	190	172	160	185	167	155
Impact	Concrete	14-in. Round or Square						
Impact	Concrete	16-in. Round or Square						
Impact	Concrete	18-in. Round or Square						
Impact	Concrete	20-in. Round or Square	187	175	167	182	170	162
Impact	Concrete	24-in. Octagonal						
Impact	Steel H (HP 12x89)	12-in.	200	178	166	195	173	161
Impact	Steel H (HP 14x89)	14-in.						
Vibrate	Steel Pipe	13-in.	172	160	--	167	155	--
Vibrate	Steel Sheet	--	177	163	--	172	158	--

[1] Attenuated condition assumes 5-dB lower sounds

Predicted Impacts to Fishes

Table 10 shows the anticipated distances to the various adopted interim fish thresholds. Distances are shown for both unattenuated and attenuated piles (5 dB attenuation). Also, when the piles are installed with a vibratory hammer, the cumulative SEL thresholds for fish do not apply and the 150 RMS acts as a threshold. The distance to each threshold was computed using the transmission loss coefficient of 15 times the Log_{10} of the distance, as recommended by NMFS when there is no site-specific information for the area. Cumulative SEL was computed by adding 10 times the Log_{10} of the number of impact pile strikes to the median SEL for a single strike. Attachment 3 shows the NMFS spreadsheets used for calculating impacts to fishes.

TABLE 10 Distance to the Various Adopted Fish Thresholds for all piles

Driving Method	Pile Type	Size	Piles installed per day	No. of strikes per pile	Condition[1]	Distance to various adopted fish thresholds (in meters)			
						Peak 206 dB[2]	RMS 150 dB[2]	Cumulative SEL 187 dB[3]	Cumulative SEL 183dB[3]
Impact	Concrete	12-18 in. Round or Square	10	1,000	Unattenuated	<1	293	46	46
					Attenuated	<1	136	22	22
Impact	Concrete	20-24 in. Round or Square	10	1,000	Unattenuated	<1	464	136	136
					Attenuated	<1	215	63	63
Impact	Steel H	12-14in.	10	1,000	Unattenuated	4	736	117	117
					Attenuated	2	341	54	54
Vibrate	Steel Pipe	13-in.	2	N/A	Unattenuated	<1	46	N/A	N/A
					Attenuated	<1	22	N/A	N/A
Vibrate	Steel Sheet	--	2	N/A	Unattenuated	<1	74	N/A	N/A
					Attenuated	<1	34	N/A	N/A

[1] Attenuated condition assumes 5-dB lower sounds. [2] dB : re 1 µpa [3] dB : re 1 µpa^{2}sec

Predicted Impacts to Marine Mammals

The following threshold distances were computed to assess impacts to marine mammals:

- Distance to onset PTS Isopleth for each hearing group
  - Unattenuated
  - Attenuated
- Distance for unweighted 120 dB vibratory and 160 dB Impulse Behavior Isopleth
  - Unattenuated
  - Attenuated

The NMFS Companion User Spreadsheet (Version 2.2 [2020]) to the *National Marine Fisheries Service (NMFS): Technical Guidance for Assessing the Effects of Anthropogenic Noise on Marine Mammal Hearing: Underwater Acoustic Thresholds for Onset of Permanent and Temporary Threshold Shifts* was used to predict zones where the onset of Permanent Threshold Shift to marine mammal hearing could occur. A spreading loss calculation is included in the spreadsheet to predict the distance to the onset PTS from accumulated SEL and Peak sound pressure. The spreadsheet incorporates a frequency weighting function that accounts for sensitivity for different hearing groups when computing accumulated SEL. These are referred to as weighting frequency adjustments (WFAs). The default frequency WFA of 2 kHz for impact pile driving and 2.5-kHz for vibratory driving were used. Since the onset of PTS based on SEL_{cum} is computed as further from the pile than it would be using Peak sound pressure computations, the onset of PTS is based

on SEL computations; therefore, the onset of PTS based on peak sound levels is not provided in this assessment.

The extent of Level B zone calculations were made using the 10-meter sound levels and applying a transmission loss coefficient of 15 times the Log_{10} of the distance, as recommended by NMFS when there is no site-specific information for the area.

Table 11 shows the anticipated distances to the various adopted Marine Mammal thresholds (Level A and Level B zones). When the piles are installed with a vibratory hammer, the cumulative SEL thresholds do not apply and the Peak PTS Thresholds that apply to marine mammals will not be reached. Distances are shown for both unattenuated and attenuated pile driving activities expected from the project. Attachment 4 shows the NMFS spreadsheets used for calculating impacts to marine mammals.

TABLE 11 Distance to the Adopted Marine Mammal Thresholds for different Pile Driving activities – Level A & B zones (meters)

Driving Method	Pile Type	Size	Piles per day	No. of strikes per pile	Condition[1]	Level A injury zone (meters) (using SEL_{cum} Threshold)					Level B harassment zone (meters)
						Cetaceans			Pinnipeds		
						LF	MF	HF	PW	OW	
Impact	Concrete	12-18 in. Round or Square	10	1,000	Unattenuated	136	5	162	73	5	63
					Attenuated	63	2	75	34	3	29
Impact	Concrete	20-24 in. Round or Square	10	1,000	Unattenuated	398	14	474	213	16	100
					Attenuated	185	7	220	99	7	46
Impact	Steel H	12-14in.	10	1,000	Unattenuated	341	12	406	183	13	158
					Attenuated	158	6	189	85	6	74
Vibrate	Steel Pipe	13-in.	2	N/A	Unattenuated	6	1	9	4	<1	1,131
					Attenuated	3	<1	4	2	<1	525
Vibrate	Steel Sheet	--	2	N/A	Unattenuated	9	<1	14	6	<1	1,792
					Attenuated	4	<1	6	3	<1	832

[1] Attenuated condition assumes 5-dB lower sounds.

Predicted Impacts to Green Sea Turtles

Table 12 shows the predicted distances to the adopted 160 dB RMS for impact driving and 190 dB RMS for vibratory driving Green Sea Turtle thresholds (as mentioned in Table 5). These distances have been calculated for all the different types of pile driving activities and their respective levels expected from the project using the $15Log_{10}$ transmission loss coefficient. Attachment 3 shows the NMFS spreadsheets used for calculating impacts to green sea turtles.

TABLE 12 Distance to the Adopted Green Sea Turtle thresholds for different Pile Driving activities (meters)

Driving Method	Pile Type	Size	Piles installed per day	No. of strikes per pile	Condition[1]	Distance to adopted Green Sea Turtle threshold (meters)
						160 dB RMS (Impact) 190 dB RMS (Vibratory)
Impact	Concrete	12-18 in. Round or Square	10	1,000	Unattenuated	63
					Attenuated	29
Impact	Concrete	20-24 in. Round or Square	10	1,000	Unattenuated	100
					Attenuated	46
Impact	Steel H	12-14in.	10	1,000	Unattenuated	158
					Attenuated	74
Vibrate	Steel Pipe	13-in.	2	N/A	Unattenuated	<1
					Attenuated	<1
Vibrate	Steel Sheet	--	2	N/A	Unattenuated	<1
					Attenuated	<1

[1] Attenuated condition assumes 5-dB lower sounds.

Summary of Underwater Sound Level Impacts

Based on the above calculations (Tables 10 to 12), construction of the NASSCO Floating Drydock and Waterfront Improvement Project would result in the generation of significant underwater sounds that could affect fishes, marine mammals and sea turtles that may be present in waters at or near the project. Impact and vibratory pile driving activities are expected to have potential impacts that extend out to around 740 meters as per the adopted fish thresholds. Pile installation activities are predicted to have potential Level A marine mammal impacts that extend out to 474 meters each day, depending on the types of activity and animal species. The range of level B impact would be much greater, extending out to 1.8 kilometers during vibratory pile driving. For most activities involving impact driving only, Level B zones would be less than 160 meters. It should be noted that the prediction that sounds extending out 1.8 kilometers would be to waters that have clear line of sight to the construction activity. The distances to the PTS thresholds for vibratory driving would be small when compared to the impact driving distances. The Level B harassment zones would however be much larger with the vibratory installation of the pile compared to impact driving. The maximum distance to adopted Green Sea Turtle thresholds is

expected to be up to 160 meters from the impact pile driving activities. Level B zones for vibratory driving with respect to adopted Green Sea Turtle thresholds are expected to be less than 10 meters.

AIRBORNE NOISE LEVELS FROM PROJECT PILE DRIVING

Fundamentals of Airborne Noise

Airborne sound is treated slightly different that underwater sound. For example, the decibel scale used to express airborne sounds reference an acoustic pressure of 20 µPa rather than 1µPa, as 20µPa is the threshold of healthy human hearing. Sound transmission in air from a single source (i.e., a "point" source) radiates uniformly outward in a more spherical pattern as it travels away from the source since the propagating field is less bounded. The sound level attenuates (or drops off) at a rate of 6 dBA for each doubling of distance. Usually, the noise path between the source and the observer is very close to the ground. Noise attenuation from ground absorption and reflective wave canceling adds to the rate of attenuation. Traditionally, the excess attenuation has also been expressed in terms of attenuation per doubling of distance. This approximation is done for simplification only; for distances of less than 300 feet, prediction results based on this scheme are sufficiently accurate. For acoustically "hard" sites (i.e., sites with a reflective surface, such as a smooth body of water, between the source and the receiver), no excess ground attenuation is assumed.

Sounds generated from construction activities are considered point sources, rather than a line source such as a freeway or roadway. The marine environment around the project site is mostly water and would be considered a "hard" site. The TL drop off rate of sound is represented by spherical spreading loss (a $20Log_{10}$ function). This equates to a 6-dB reduction in sound per doubling distance. The formula for calculating the drop off is the source level plus $20*Log_{10}(D_1/D_2)$, where D_1 is the reference position and D_2 is the receiver position.

Airborne Noise Thresholds

In-air acoustic impacts are only considered for marine mammals that would haul out of the water. Therefore, pinnipeds (seals and sea lions) are considered but cetaceans (whales, dolphins, and porpoises) are not. Current in-air acoustic thresholds provided by NMFS for marine mammals are 90 dB RMS for Level B take of harbor seals and 100 dB RMS for Level B take of non-harbor seal pinnipeds. It is noted that thresholds are currently only provided for Level B take (behavioral disruption) and that no threshold are currently established for Level A take (injury). Because injury is a more severe effect than behavioral disruption it follows that Level A take would occur at higher noise levels than those associated with Level B take. Therefore, although no specific threshold has been established for Level A take (injury) it can be concluded that avoidance of Level B take would also avoid Level A take. It is noted that the thresholds in Table 13 are all established using unweighted decibels (dB) (also sometimes referred to as "flat" or "Z" weighted), as opposed to A-weighted decibels (dBA) which are typically used for assessing environmental noise impacts on humans. When a sound is measured using both unweighted decibels and A-weighted decibels, the values are rarely the same. The unweighted (dB) level will be higher than the A-weighted (dBA) level, especially for sounds with substantial low frequency acoustic energy. The difference between the two values depends on the frequency content (spectrum) of the sound.

TABLE 13 Airborne noise thresholds

Criterion	Criterion Definition	Threshold
Level A	PTS (injury) conservatively based on TTS	None established
Level B	Harbor seals (Level B – behavioral disruption) exposure	90 dBA RMS
Level B	Non-harbor seal pinnipeds (Level B – behavioral disruption) exposure	100 dBA RMS

Sound Levels for Pile Driving

The U.S. Navy reports airborne sounds from pile driving[11,12]. These impact pile driving levels are for steel piles, which are considered to generate more noise than concrete piles. The Navy reports maximum unweighted airborne sound levels at 112 dB (L_{max}) for impact and 95 to 97 dB for Vibratory (36in piles). FHWA's RCNM v2.0 (Roadway Construction Noise Model) is commonly used to documented A-weighted levels for evaluating impacts to people. Impact pile driving is predicted at 104 dBA at 50 feet (15 meters). However, these are A-weighted levels. Table 14 provides the L_{max} and L_{eq} levels[13] measured while driving relatively small diameter steel shell piles (24- to 36-inch diameter) at the Navy Test Pile Program project in Bangor, Washington.

TABLE 14 Airborne Noise Levels from Driving of Steel Piles Measured at 50 feet (15 meters)

Sound Descriptor	Sound Level, dBA[1]	
	Vibratory Hammer	Impact Hammer
L_{max}	102	112
L_{eq}	97	103

[1] dB re: 20 µPa

Airborne Impacts from Vibratory Pile Driving

Measured sound levels from vibratory pile driving used in this analysis are based on measurements made during the Navy Test Pile Project. The maximum measured unweighted L_{max} was 102 dB and the average L_{eq} was 97 dB at 50 feet or 15 meters. The $20\log_{10}$ attenuation rate was used to calculate the distances to the various NMFS thresholds that are presented in Table 15. The distances shown are based on the L_{max} levels. We believe the NMFS criterion are based on average levels, so these distances likely overestimate impacts.

[11] NAVFAC 2015. *Proxy Source Sound Levels and Potential Bubble Curtain Attenuation for Acoustic Modeling of Nearshore Marine Pile Driving at Navy Installations in Puget Sound*. January. Available at http://www.nbkeis.com/_Docs/FEIS/AppendixH_Navy%202015%20Noise%20Analysis.pdf . Accessed June 25, 2021

12 Navy (U.S. Department of the Navy). 2012. *Acoustic monitoring report Test Pile Program. Prepared for Naval Base Kitsap at Bangor*, WA. Prepared by Illingworth and Rodkin, Inc., April 27, 2012

[13] L_{max} level is the typical maximum RMS sound level measured with a Sound Level Meter set to the "fast" response (or $1/8^{th}$ second response time). The Leq is the energy average sound level measured over a driving event.

TABLE 15 Distance to Thresholds for Vibratory Driving

Threshold	Distance (meters)	
	100 dB	90 dB
L_{max}	20	60
L_{eq}	<10	35

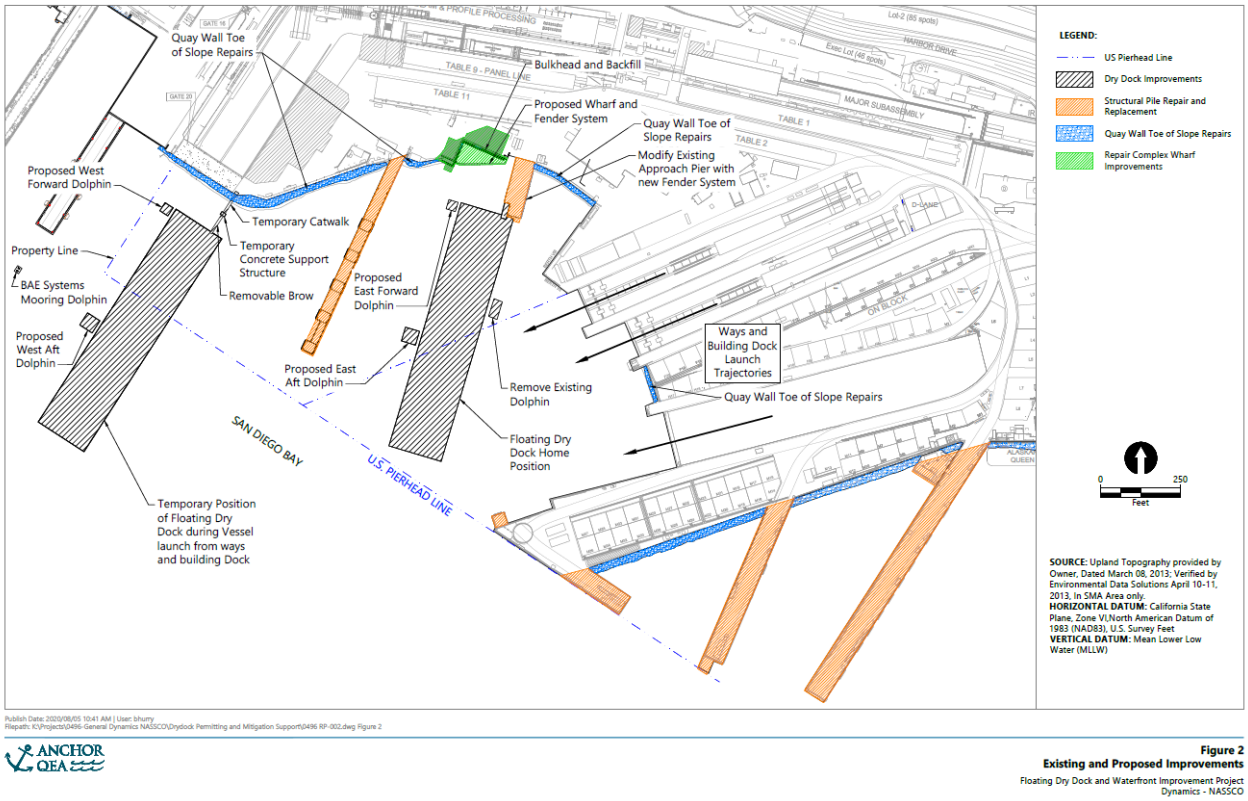
Airborne Impacts from Impact Pile Driving

Measured sound levels from impact pile driving used in this analysis are also based on measurements made during the Navy Test Pile Project. The maximum measured unweighted L_{max} was 112 dB and the average L_{max} was 103 dB at 50 feet (15 meters). The $20\log_{10}$ attenuation rate was used to calculate the distances to the various NMFS thresholds that are presented in Table 16. The levels shown are the L_{max} levels. Again, these distances likely overestimate impact areas since they are based on the maximum levels.

TABLE 16 Distance to Thresholds for Impact Driving

Threshold	Distance (meters)	
	100 dB	90 dB
L_{max}	200 feet (60 meters)	630 feet (190 meters)
L_{eq}	70 feet (20 meters)	225 feet (70 meters)

Attachment 1



ANCHOR QEA

Figure 2
Existing and Proposed Improvements
Floating Dry Dock and Waterfront Improvement Project
Dynamics - NASSCO

FIGURE A1 - Floating Dry Dock and Waterfront Improvement Project Plan

Attachment 2

Table A-2. Summary of Applicable Caltrans Compendium Data

Pile type	Diameter	Project	Location	Hammer type	Water Depth	Measured Sound Levels (dB re : 1 µPa)				Comments
						Distance	Peak	RMS	SEL	
Concrete	12-inch square	Noyo Harbor Mooring Basin Dock Project	Fort Bragg, CA Noyo Harbor	Diesel Impact	2-3m	10m	183	157	146	
Concrete	16-inch sqaure	Pier 2, Concord NWS	Concord, CA - Carquinez Straits	Drop Steam-Powered	10m	10m	184	173	--	Piles driven using steam-powered drop hammer that included a cushion block. Hammer energies were 48,000 to 60,000 ft-lbs
Concrete	18-inch octagonal	Berkeley Marina	Berekely, CA San Francisco Bay	Diesel D-30	2-4m	10m	185	166	154	
Concrete	20-inch square	Pier 12 attenuation device test	Honolulu, Hawaii	Junttan Hydraulic impact hammer Model HHS9	4-10m	10m	188	177	164	
Concrete	24-inch octagonal	Berth 22 Reconstruction, Port of Oakland	Oakland, CA - San Francisco Bay	Diesel Impact(Delmag D62-22)	10-15m	10m	188	176	166	Piles installed using D62-22 Delmag impact hammer with cushion block. Hammer energies up to 165,000 ft-lbs (224 kilo joules). Fish exposure study conducted during measurements
Steel H Pile	12-inch	Noyo River Bridge	Fort Bragg, CA	Diesel Impact	2m	30m	179	165	NA	Temporary trestle piles. Piles driven using small diesel impact hammer. Piles installed in shallow water.
Steel H Pile	14-inch	Parson Slough	Montrery, CA Parson Slough	Diesel Impact APE19-42	4m	10m	200	178	166	Small diesel hammer in deep water
Steel Pipe	13-inch	Mad River Slough Pipeline	Mad River Slough, Arcata, CA	Vibratory Hammer	5m	10m	171	155	155	Piles driven in tidal river slough. Piles were first vibrated, then driven with a drop hammer.
AZ Steel Sheet	24-inch AZ	Berth 35/37, Port of Oakland (Dutra)	Oakland, CA - San Francisco Bay	Vibratory (APE 600B Super Kong)	15m	10m	177	163	163	Vibratory installation of sheet piles for deep-water berth, as described above. Sound levels of some driving events exceeded 185 dB peak and 165 dB SEL for very short periods

Attachment 3 – NMFS Fish and Sea Turtle calculation sheets

Title	**21-047 NASSCO Port of San Diego**
Description	12-18 in round or square concrete impact piles
Assumptions	

Instructions:

Input: Fill in the green colored cells

B1: Enter a descriptive title for the analysis.
B2: Enter complete information about the pile driving operation, including the type of pile, size of pile, pile driver type, noise attenuation, hours of operation, etc.
B3: Enter any assumptions you need to make about the choice of parameter values, project methods, environment, etc.
B26: Enter the number of strikes required to drive a single pile to final depth (from the Action Agency's description or from the No. Strikes per Pile Data tab)
B27: Enter the maximum number of piles to be installed in a single day (from the Action Agency's description of the project)
For the next 6 values, use the information on the Pile Driving Noise Data tab if possible, otherwise request information from the Action Agency or search the internet for another source.
B32: Enter the estimated single strike peak pressure (dB re: 1µPa)
B33: Enter the distance (m) from the pile where B7 was measured
B34: Enter any noise reduction (from unattenuated noise levels) due to noise abatement methods. See the Noise Abatement Data Tab.
C32: Enter the estimated single strike SEL (dB re: 1µPa²s). If no direct measurement is available, use peak pressure minus 25 dB
C33: Enter the distance (m) from the pile where C9 was measured
D32: Enter the estimated single strike RMS pressure (dB re: 1µPa). If no direct measurement is available, use peak pressure minus 15 dB
D33: Enter the distance (m) from the pile where D9 was measured
B38: Enter the transmission loss constant (attenuation with distance), which depends on the model used:
For deep water (depth is greater than the cSEL radius of effect) use the spherical model attenuation constant = 20
For shallow water use a cylindrical model attenuation constant = 10 to 15; use 15 if unknown.
If you use an attenuation constant that was reported with the noise data, be sure that the depth profile and bottom type of your project is similar to the project that generated the data.

Output: Read the values in the blue cells in the Calculated Distances Table

Pile Driving Parameters	
Number of strikes per pile	**1000**
Number of piles per day	**10**
Estimated number of strikes per day	10000

Acoustic Measurements				
Measurement	Peak	SEL	RMS	
Measured single strike level	**190**	**160**	**172**	
Distance from source (m)	**10**	**10**	**10**	**← The pre-filled values are the most comm**
Noise reduction due to abatement (dB)	**5**			

Model Assumptions	
Effective Quiet	**150**
Transmission loss constant (15 if unknown)	**15**
Cumulative SEL at measured distance	210

Calculated Acoustic Values Used by the Model			
Measurement	Peak	SEL	RMS
Single Strike Levels	**200**	**170**	**182**
Distance from source (m)	**1**	**1**	**1**

Calculated Distances					
	Onset of Physical Injury			Fish Behavior	Sea Turtle Behavior
	Peak	Cumulative SEL dB**		RMS	RMS
	Sea Turtles & Fish	Sea Turtles & Fish ≥ 2 g	Fish < 2 g	dB	dB
Threshold value	206	187	183	150	160
Distance to threshold (meters)	**0**	**21.5443469**	**21.5443469**	**135.9356391**	**29.28644565**
Distance to threshold (US Standard)	**0.0 ft**	**70.684 ft**	**70.684 ft**	**445.983 ft**	**96.084 ft**
	** This calculation assumes that single strike SELs < 150 dB do not accumulate to cause injury (Effective Quiet)				

Title	21-047 NASSCO Port of San Diego
Description	20-24 in round or square concrete impact piles
Assumptions	

Instructions:

Input: Fill in the green colored cells

B1: Enter a descriptive title for the analysis.

B2: Enter complete information about the pile driving operation, including the type of pile, size of pile, pile driver type, noise attenuation, hours of operation, etc.

B3: Enter any assumptions you need to make about the choice of parameter values, project methods, environment, etc.

B26: Enter the number of strikes required to drive a single pile to final depth (from the Action Agency's description or from the No. Strikes per Pile Data tab)

B27: Enter the maximum number of piles to be installed in a single day (from the Action Agency's description of the project)

For the next 6 values, use the information on the Pile Driving Noise Data tab if possible, otherwise request information from the Action Agency or search the internet for another source.

B32: Enter the estimated single strike peak pressure (dB re: 1µPa)

B33: Enter the distance (m) from the pile where B7 was measured

B34: Enter any noise reduction (from unattenuated noise levels) due to noise abatement methods. See the Noise Abatement Data Tab.

C32: Enter the estimated single strike SEL (dB re: 1µPa²s). If no direct measurement is available, use peak pressure minus 25 dB

C33: Enter the distance (m) from the pile where C9 was measured

D32: Enter the estimated single strike RMS pressure (dB re: 1µPa). If no direct measurement is available, use peak pressure minus 15 dB

D33: Enter the distance (m) from the pile where D9 was measured

B38: Enter the transmission loss constant (attenuation with distance), which depends on the model used:

For deep water (depth is greater than the cSEL radius of effect) use the spherical model attenuation constant = 20

For shallow water use a cylindrical model attenuation constant = 10 to 15; use 15 if unknown.

If you use an attenuation constant that was reported with the noise data, be sure that the depth profile and bottom type of your project is similar to the project that generated the data.

Output: Read the values in the blue cells in the Calculated Distances Table

Pile Driving Parameters	
Number of strikes per pile	**1000**
Number of piles per day	**10**
Estimated number of strikes per day	10000

Acoustic Measurements				
Measurement	Peak	SEL	RMS	
Measured single strike level	**187**	**167**	**175**	
Distance from source (m)	**10**	**10**	**10**	**← The pre-filled values are the most comm**
Noise reduction due to abatement (dB)	**5**			

Model Assumptions	
Effective Quiet	**150**
Transmission loss constant (15 if unknown)	**15**
Cumulative SEL at measured distance	217

Calculated Acoustic Values Used by the Model			
Measurement	Peak	SEL	RMS
Single Strike Levels	**197**	**177**	**185**
Distance from source (m)	**1**	**1**	**1**

Calculated Distances

	Onset of Physical Injury			Fish Behavior	Sea Turtle Behavior
	Peak	Cumulative SEL dB**		RMS	RMS
	Sea Turtles & Fish	Sea Turtles & Fish ≥ 2 g	Fish < 2 g	dB	dB
Threshold value	206	187	183	150	160
Distance to threshold (meters)	**0**	**63.09573445**	**63.09573445**	**215.443469**	**46.41588834**
Distance to threshold (US Standard)	**0.0 ft**	**207.007 ft**	**207.007 ft**	**706.836 ft**	**152.283 ft**
	** This calculation assumes that single strike SELs < 150 dB do not accumulate to cause injury (Effective Quiet)				

Title	21-047 NASSCO Port of San Diego
Description	12-14 in steel H impact piles
Assumptions	

Instructions:

Input: Fill in the green colored cells

B1: Enter a descriptive title for the analysis.

B2: Enter complete information about the pile driving operation, including the type of pile, size of pile, pile driver type, noise attenuation, hours of operation, etc.

B3: Enter any assumptions you need to make about the choice of parameter values, project methods, environment, etc.

B26: Enter the number of strikes required to drive a single pile to final depth (from the Action Agency's description or from the No. Strikes per Pile Data tab)

B27: Enter the maximum number of piles to be installed in a single day (from the Action Agency's description of the project)

For the next 6 values, use the information on the Pile Driving Noise Data tab if possible, otherwise request information from the Action Agency or search the internet for another source.

B32: Enter the estimated single strike peak pressure (dB re: 1µPa)

B33: Enter the distance (m) from the pile where B7 was measured

B34: Enter any noise reduction (from unattenuated noise levels) due to noise abatement methods. See the Noise Abatement Data Tab.

C32: Enter the estimated single strike SEL (dB re: 1µPa²s). If no direct measurement is available, use peak pressure minus 25 dB

C33: Enter the distance (m) from the pile where C9 was measured

D32: Enter the estimated single strike RMS pressure (dB re: 1µPa). If no direct measurement is available, use peak pressure minus 15 dB

D33: Enter the distance (m) from the pile where D9 was measured

B38: Enter the transmission loss constant (attenuation with distance), which depends on the model used:

For deep water (depth is greater than the cSEL radius of effect) use the spherical model attenuation constant = 20

For shallow water use a cylindrical model attenuation constant = 10 to 15; use 15 if unknown.

If you use an attenuation constant that was reported with the noise data, be sure that the depth profile and bottom type of your project is similar to the project that generated the data.

Output: Read the values in the blue cells in the Calculated Distances Table

Pile Driving Parameters	
Number of strikes per pile	**1000**
Number of piles per day	**10**
Estimated number of strikes per day	10000

Acoustic Measurements				
Measurement	Peak	SEL	RMS	
Measured single strike level	**200**	**166**	**178**	
Distance from source (m)	**10**	**10**	**10**	**← The pre-filled values are the most comm**
Noise reduction due to abatement (dB)	**5**			

Model Assumptions	
Effective Quiet	**150**
Transmission loss constant (15 if unknown)	**15**
Cumulative SEL at measured distance	216

Calculated Acoustic Values Used by the Model			
Measurement	Peak	SEL	RMS
Single Strike Levels	**210**	**176**	**188**
Distance from source (m)	**1**	**1**	**1**

Calculated Distances

	Onset of Physical Injury			Fish Behavior	Sea Turtle Behavior
	Peak	Cumulative SEL dB**		RMS	RMS
	Sea Turtles & Fish	Sea Turtles & Fish ≥ 2 g	Fish < 2 g	dB	dB
Threshold value	206	187	183	150	160
Distance to threshold (meters)	**1.847849797**	**54.11695265**	**54.11695265**	**341.4548874**	**73.56422545**
Distance to threshold (US Standard)	**6.062 ft**	**177.549 ft**	**177.549 ft**	**1120.259 ft**	**241.352 ft**
	** This calculation assumes that single strike SELs < 150 dB do not accumulate to cause injury (Effective Quiet)				

Attachment 4 – NMFS Level A Marine Mammal impact calculation sheets

E.1: IMPACT PILE DRIVING (STATIONARY SOURCE: Impulsive, Intermittent)

VERSION 2.2: 2020

KEY

	Action Proponent Provided Information
	NMFS Provided Information (Technical Guidance)
	Resultant Isopleth

STEP 1: GENERAL PROJECT INFORMATION

PROJECT TITLE	Port of San Diego NASSCO
PROJECT/SOURCE INFORMATION	12-18" Concrete IMPACT

Please include any assumptions

PROJECT CONTACT	Adwait Ambaskar aambaskar@illingworthrodkin.com

STEP 2: WEIGHTING FACTOR ADJUSTMENT

Specify if relying on source-specific WFA, alternative weighting/dB adjustment, or if using default value

Weighting Factor Adjustment (kHz)¥	2	

*Broadband: 95% frequency contour percentile (kHz); For appropriate default WFA: See INTRODUCTION tab

† If a user relies on alternative weighting/dB adjustment rather than relying upon the WFA (source-specifi
or default), they may override the Adjustment (dB) (row 73), and enter the new value directly.
However, they must provide additional support and documentation supporting this modification.

STEP 3: SOURCE-SPECIFIC INFORMATION

NOTE: METHOD E.1-1 is PREFERRED method when SEL-based source levels are available (because pulse duration is not required). Only use method E.1-2 if SEL-

E.1-1: METHOD TO CALCULATE PK AND SEL_{cum} (SINGLE STRIKE EQUIVALENT) PREFERRED METHOD (pulse duration not needed)

Unweighted $SEL_{cum\ (at\ measured\ distance)}$ = SEL_{ss} + 10 Log (# strikes)	200.0

SEL_{cum}

Single Strike SEL_{ss} ($L_{E,p,\ single\ strike}$) specified at "x" meters (Cell B32)	160
Number of strikes per pile	1000
Number of piles per day	10
Transmission loss coefficient	15
Distance of single strike SEL_{ss} ($L_{E,p,\ single\ strike}$) measurement (meters)	10

PK

$L_{p,0\text{-}pk}$ specified at "x" meters (Cell G29)	190
Distance of $L_{p,0\text{-}pk}$ measurement (meters)†	10
$L_{p,0\text{-}pk}$ Source level	205.0

RESULTANT ISOPLETHS*

*Impulsive sounds have dual metric thresholds (SELcum & PK). Metric producing largest isopleth should be used.

Hearing Group	Low-Frequency Cetaceans	Mid-Frequency Cetaceans	High-Frequency Cetaceans	Phocid Pinnipeds	Otariid Pinnipeds
SEL_{cum} Threshold	183	185	155	185	203
PTS Isopleth to threshold (meters)	135.7	4.8	161.7	72.6	5.3
PK Threshold	219	230	202	218	232
PTS PK Isopleth to threshold (meters)	NA	NA	1.6	NA	NA

*"NA": PK source level is ≤ to the threshold for that marine mammal hearing group.

E.1: IMPACT PILE DRIVING (STATIONARY SOURCE: Impulsive, Intermittent)

VERSION 2.2: 2020

KEY

	Action Proponent Provided Information
	NMFS Provided Information (Technical Guidance)
	Resultant Isopleth

STEP 1: GENERAL PROJECT INFORMATION

PROJECT TITLE	Port of San Diego NASSCO
PROJECT/SOURCE INFORMATION	20-24" Concrete IMPACT
Please include any assumptions	
PROJECT CONTACT	Adwait Ambaskar aambaskar@illingworthrodkin.com

STEP 2: WEIGHTING FACTOR ADJUSTMENT

Specify if relying on source-specific WFA, alternative weighting/dB adjustment, or if using default value

Weighting Factor Adjustment (kHz)¥	2	

¥Broadband: 95% frequency contour percentile (kHz); For appropriate default WFA: See INTRODUCTION tab

† If a user relies on alternative weighting/dB adjustment rather than relying upon the WFA (source-speci or default), they may override the Adjustment (dB) (row 73), and enter the new value directly. However, they must provide additional support and documentation supporting this modification.

STEP 3: SOURCE-SPECIFIC INFORMATION

NOTE: METHOD E.1-1 is PREFERRED method when SEL-based source levels are available (because pulse duration is not required). Only use method E.1-2 if SEL

E.1-1: METHOD TO CALCULATE PK AND SEL_{cum} (SINGLE STRIKE EQUIVALENT) PREFERRED METHOD (pulse duration not needed)

Unweighted $SEL_{cum\ (at\ measured\ distance)}$ = SEL_{ss} + 10 Log (# strikes)	207.0

SEL_{cum}		PK	
Single Strike SEL_{ss} ($L_{E,p,\ single\ strike}$) specified at "x" meters (Cell B32)	167	$L_{p,0\text{-}pk}$ specified at "x" meters (Cell G29)	187
Number of strikes per pile	1000	Distance of $L_{p,0\text{-}pk}$ measurement (meters)*	10
Number of piles per day	10	$L_{p,0\text{-}pk}$ Source level	202.0
Transmission loss coefficient	15		
Distance of single strike SEL_{ss} ($L_{E,p,\ single\ strike}$) measurement (meters)	10		

RESULTANT ISOPLETHS*

*Impulsive sounds have dual metric thresholds (SELcum & PK). Metric producing largest isopleth should be used.

Hearing Group	Low-Frequency Cetaceans	Mid-Frequency Cetaceans	High-Frequency Cetaceans	Phocid Pinnipeds	Otariid Pinnipeds
SEL_{cum} Threshold	183	185	155	185	203
PTS Isopleth to threshold (meters)	397.6	14.1	473.6	212.8	15.5
PK Threshold	219	230	202	218	232
PTS PK Isopleth to threshold (meters)	NA	NA	NA	NA	NA

"NA": PK source level is ≤ to the threshold for that marine mammal hearing group.

E.1: IMPACT PILE DRIVING (STATIONARY SOURCE: Impulsive, Intermittent)

VERSION 2.2: 2020

KEY

	Action Proponent Provided Information
	NMFS Provided Information (Technical Guidance)
	Resultant Isopleth

STEP 1: GENERAL PROJECT INFORMATION

PROJECT TITLE	Port of San Diego NASSCO
PROJECT/SOURCE INFORMATION	12-14" Steel H IMPACT
Please include any assumptions	
PROJECT CONTACT	Adwait Ambaskar aambaskar@illingworthrodkin.com

STEP 2: WEIGHTING FACTOR ADJUSTMENT

		Specify if relying on source-specific WFA, alternative weighting/dB adjustment, or if using default value
Weighting Factor Adjustment (kHz)¥	2	

*Broadband: 95% frequency contour percentile (kHz); For appropriate default WFA: See INTRODUCTION tab

† If a user relies on alternative weighting/dB adjustment rather than relying upon the WFA (source-speci
or default), they may override the Adjustment (dB) (row 73), and enter the new value directly.
However, they must provide additional support and documentation supporting this modification.

STEP 3: SOURCE-SPECIFIC INFORMATION

NOTE: METHOD E.1-1 is PREFERRED method when SEL-based source levels are available (because pulse duration is not required). Only use method E.1-2 if SEL

E.1-1: METHOD TO CALCULATE PK AND SEL_{cum} (SINGLE STRIKE EQUIVALENT) PREFERRED METHOD (pulse duration not needed)

Unweighted SEL_{cum} (at measured distance) = SEL_{ss} + 10 Log (# strikes)	206.0

SEL_{cum}		PK	
Single Strike SEL_{ss} ($L_{E,p,\ single\ strike}$) specified at "x" meters (Cell B32)	166	$L_{p,0\text{-}pk}$ specified at "x" meters (Cell G29)	200
Number of strikes per pile	1000	Distance of $L_{p,0\text{-}pk}$ measurement (meters)*	10
Number of piles per day	10	$L_{p,0\text{-}pk}$ Source level	215.0
Transmission loss coefficient	15		
Distance of single strike SEL_{ss} ($L_{E,p,\ single\ strike}$) measurement (meters)	10		

RESULTANT ISOPLETHS*

*Impulsive sounds have dual metric thresholds (SELcum & PK). Metric producing largest isopleth should be used.

Hearing Group	Low-Frequency Cetaceans	Mid-Frequency Cetaceans	High-Frequency Cetaceans	Phocid Pinnipeds	Otariid Pinnipeds
SEL_{cum} Threshold	183	185	155	185	203
PTS Isopleth to threshold (meters)	341.0	12.1	406.2	182.5	13.3
PK Threshold	219	230	202	218	232
PTS PK Isopleth to threshold (meters)	NA	NA	7.4	NA	NA

*"NA": PK source level is ≤ to the threshold for that marine mammal hearing group.

A.1: Vibratory Pile Driving (STATIONARY SOURCE: Non-Impulsive, Continuous)

VERSION 2.2: 2020

KEY

	Action Proponent Provided Information
	NMFS Provided Information (Technical Guidance)
	Resultant Isopleth

STEP 1: GENERAL PROJECT INFORMATION

PROJECT TITLE	Port of San Diego NASSCO
PROJECT/SOURCE INFORMATION	12-13" steel pipe VIBRATORY

Please include any assumptions

PROJECT CONTACT	Adwait Ambaskar aambaskar@illingworthrodkin.com

STEP 2: WEIGHTING FACTOR ADJUSTMENT

		Specify if relying on source-specific WFA, alternative weighting/dB adjustment, or if using default value
Weighting Factor Adjustment (kHz)¥	2.5	

¥Broadband: 95% frequency contour percentile (kHz) OR Narrowband: frequency (kHz); For appropriate default WFA: See INTRODUCTION tab

† If a user relies on alternative weighting/dB adjustment rather than relying upon the WFA (source-specifi or default), they may override the Adjustment (dB) (row 48), and enter the new value directly. However, they must provide additional support and documentation supporting this modification.

STEP 3: SOURCE-SPECIFIC INFORMATION

Sound Pressure Level (L_{rms}), specified at "x" meters (Cell B30)	155
Number of piles within 24-h period	2
Duration to drive a single pile (minutes)	30
Duration of Sound Production within 24-h period (seconds)	3600
10 Log (duration of sound production	35.56
Transmission loss coefficient	15
Distance of sound pressure level (L_{rms}) measurement (meters)	10

NOTE: The User Spreadsheet tool provides a means to estimates distances a with the Technical Guidance's PTS onset thresholds. Mitigation and monitorin requirements associated with a Marine Mammal Protection Act (MMPA) author Endangered Species Act (ESA) consultation or permit are independent mana decisions made in the context of the proposed activity and comprehensive effe and are beyond the scope of the Technical Guidance and the User Spreadshe

RESULTANT ISOPLETHS

Hearing Group	Low-Frequency Cetaceans	Mid-Frequency Cetaceans	High-Frequency Cetaceans	Phocid Pinnipeds	Otariid Pinnipeds
SEL_{cum} Threshold	199	198	173	201	219
PTS Isopleth to threshold (meters)	**2.7**	**0.2**	**4.0**	**1.7**	**0.1**

A.1: Vibratory Pile Driving (STATIONARY SOURCE: Non-Impulsive, Continuous)

VERSION 2.2: 2020

KEY

	Action Proponent Provided Information
	NMFS Provided Information (Technical Guidance)
	Resultant Isopleth

STEP 1: GENERAL PROJECT INFORMATION

PROJECT TITLE	Port of San Diego NASSCO
PROJECT/SOURCE INFORMATION	Steel Sheet VIBRATORY

Please include any assumptions

PROJECT CONTACT	Adwait Ambaskar aambaskar@illingworthrodkin.com

STEP 2: WEIGHTING FACTOR ADJUSTMENT

Specify if relying on source-specific WFA, alternative weighting/dB adjustment, or if using default value

Weighting Factor Adjustment (kHz)¥	2.5	

¥Broadband: 95% frequency contour percentile (kHz) OR Narrowband: frequency (kHz); For appropriate default WFA: See INTRODUCTION tab

† If a user relies on alternative weighting/dB adjustment rather than relying upon the WFA (source-specif or default), they may override the Adjustment (dB) (row 48), and enter the new value directly. However, they must provide additional support and documentation supporting this modification.

STEP 3: SOURCE-SPECIFIC INFORMATION

Sound Pressure Level (L_{rms}), specified at "x" meters (Cell B30)	158
Number of piles within 24-h period	2
Duration to drive a single pile (minutes)	30
Duration of Sound Production within 24-h period (seconds)	3600
10 Log (duration of sound production	35.56
Transmission loss coefficient	15
Distance of sound pressure level (L_{rms}) measurement (meters)	10

NOTE: The User Spreadsheet tool provides a means to estimates distances with the Technical Guidance's PTS onset thresholds. Mitigation and monitorir requirements associated with a Marine Mammal Protection Act (MMPA) autho Endangered Species Act (ESA) consultation or permit are independent mana decisions made in the context of the proposed activity and comprehensive eff and are beyond the scope of the Technical Guidance and the User Spreadsh

RESULTANT ISOPLETHS

Hearing Group	Low-Frequency Cetaceans	Mid-Frequency Cetaceans	High-Frequency Cetaceans	Phocid Pinnipeds	Otariid Pinnipeds
SEL_{cum} Threshold	199	198	173	201	219
PTS Isopleth to threshold (meters)	**4.3**	**0.4**	**6.4**	**2.6**	**0.2**

Appendix D

Special-Status Species List

Special-Status Plant Species Known to Occur in the Vicinity of the Project Site and Potential for Occurrence on the Project Site

Species	Listing Status[1] Federal	Listing Status[1] State	CRPR	Habitat	Potential for Occurrence
San Diego thorn-mint *Acanthomintha ilicifolia*	FT	SE	1B.1	Endemic to active vertisol clay soils of mesas and valleys. Usually on clay lenses within grassland or chaparral communities. 82–3,100 feet in elevation. Blooms April–June.	Not expected to occur. The project site does not contain habitat suitable for this species.
Nuttall's acmispon *Acmispon prostratus*	–	–	1B.1	On sand dunes. 0–59 feet in elevation. Blooms March–June.	Not expected to occur. The project site does not contain habitat suitable for this species.
California adolphia *Adolphia californica*	–	–	2B.1	From sandy/gravelly to clay soils within grassland, coastal sage scrub, or chaparral; various exposures. 148–2,428 feet in elevation. Blooms December–May.	Not expected to occur. The project site does not contain habitat suitable for this species.
Shaw's agave *Agave shawii* var. *shawii*	–	–	2B.1	Coastal bluffs and slopes within coastal sage scrub. 33–394 feet in elevation. Blooms September–May.	Not expected to occur. The project site does not contain habitat suitable for this species.
San Diego bur-sage *Ambrosia chenopodiifolia*	–	–	2B.1	Slopes of canyons in open succulent scrub usually with little herbaceous cover. 66–820 feet in elevation. Blooms April–June.	Not expected to occur. The project site does not contain habitat suitable for this species.
Singlewhorl burrobrush *Ambrosia monogyra*	–	–	2B.2	Sandy soils. 16–1,558 feet in elevation. Blooms August–November.	Not expected to occur. The project site does not contain habitat suitable for this species.
San Diego ambrosia *Ambrosia pumila*	FE	–	1B.1	Sandy loam or clay soil; sometimes alkaline. In valleys, persists where disturbance has been superficial. Sometimes on margins or near vernal pools. 10–1,903 feet in elevation. Blooms April–October.	Not expected to occur. The project site does not contain habitat suitable for this species.
Aphanisma *Aphanisma blitoides*	–	–	1B.2	On bluffs and slopes near the ocean in sandy or clay soils. 10–1,001 feet in elevation. Blooms February–June.	Not expected to occur. The project site does not contain habitat suitable for this species.
Del Mar manzanita *Arctostaphylos glandulosa* ssp. *crassifolia*	FE	–	1B.1	Sandy coastal mesas and ocean bluffs; in chaparral or Torrey pine forest. 98–1,198 feet in elevation. Blooms December–June.	Not expected to occur. The project site does not contain habitat suitable for this species.
Dean's milk-vetch *Astragalus deanei*	–	–	1B.1	Open, brushy south-facing slopes in Diegan coastal sage, sometimes on recently burned-over hillsides. 230–2,608 feet in elevation. Blooms February–May.	Not expected to occur. The project site does not contain habitat suitable for this species.
Coastal dunes milk-vetch *Astragalus tener* var. *titi*	FE	SE	1B.1	Moist, sandy depressions of bluffs or dunes along and near the Pacific Ocean; one site on a clay terrace. 3–148 feet in elevation. Blooms March–May.	Not expected to occur. The project site does not contain habitat suitable for this species.
Coulter's saltbush *Atriplex coulteri*	–	–	1B.2	Ocean bluffs, ridgetops, as well as alkaline low places. Alkaline or clay soils. 7–1,509 feet in elevation. Blooms March–October.	Not expected to occur. The project site does not contain habitat suitable for this species.
South coast saltscale *Atriplex pacifica*	–	–	1B.2	Alkali soils. 3–1,312 feet in elevation. Blooms March–October.	Not expected to occur. The project site does not contain habitat suitable for this species.

Species	Listing Status[1] Federal	Listing Status[1] State	CRPR	Habitat	Potential for Occurrence
Golden-spined cereus *Bergerocactus emoryi*	–	–	2B.2	Coastal scrub, chaparral, closed-cone coniferous forest. Limited to the coastal belt. 10–1,296 feet in elevation. Blooms May–June.	Not expected to occur. The project site does not contain habitat suitable for this species.
San Diego goldenstar *Bloomeria clevelandii*	–	–	1B.1	Mesa grasslands, scrub edges; clay soils. Often on mounds between vernal pools in fine, sandy loam. 164–1,526 feet in elevation. Blooms April–May.	Not expected to occur. The project site does not contain habitat suitable for this species.
Orcutt's brodiaea *Brodiaea orcuttii*	–	–	1B.1	Mesic, clay habitats; sometimes serpentine; usually in vernal pools and small drainages. 98–5,299 feet in elevation. Blooms May–July.	Not expected to occur. The project site does not contain habitat suitable for this species.
Otay Mountain ceanothus *Ceanothus otayensis*	–	–	1B.2	Chaparral. Metavolcanic or gabbroic soils. 246–3,806 feet in elevation. Blooms January–April.	Not expected to occur. The project site does not contain habitat suitable for this species.
Wart-stemmed ceanothus *Ceanothus verrucosus*	–	–	2B.2	Chaparral. 3–1,247 feet in elevation. Blooms December–May.	Not expected to occur. The project site does not contain habitat suitable for this species.
Orcutt's pincushion *Chaenactis glabriuscula* var. *orcuttiana*	–	–	1B.1	Sandy sites. 10–262 feet in elevation. Blooms January–August.	Not expected to occur. The project site does not contain habitat suitable for this species.
Salt marsh bird's-beak *Chloropyron maritimum* ssp. *maritimum*	FE	SE	1B.2	Limited to the higher zones of salt marsh habitat. 0–33 feet in elevation. Blooms May–October.	Not expected to occur. The project site does not contain habitat suitable for this species.
Orcutt's spineflower *Chorizanthe orcuttiana*	FE	SE	1B.1	Sandy sites and openings; sometimes in transition zones. 10–410 feet in elevation. Blooms March–May.	Not expected to occur. The project site does not contain habitat suitable for this species.
Long-spined spineflower *Chorizanthe polygonoides* var. *longispina*	–	–	1B.2	Gabbroic clay. 98–5,052 feet in elevation. Blooms April–July.	Not expected to occur. The project site does not contain habitat suitable for this species.
Delicate clarkia *Clarkia delicata*	–	–	1B.2	Often on gabbro soils. 164–4,462 feet in elevation. Blooms April–June.	Not expected to occur. The project site does not contain habitat suitable for this species.
Summer holly *Comarostaphylis diversifolia* ssp. *diversifolia*	–	–	1B.2	Often in mixed chaparral in California, sometimes post-burn. 98–3,100 feet in elevation. Blooms April–June.	Not expected to occur. The project site does not contain habitat suitable for this species.
San Diego sand aster *Corethrogyne filaginifolia* var. *incana*	–	–	1B.1	Possibly in disturbed sites and ecotones. 10–377 feet in elevation. Blooms June–September.	Not expected to occur. The project site does not contain habitat suitable for this species.
Snake cholla Cylindropuntia californica var. *californica*	–	–	1B.1	Chaparral, coastal scrub. 49–951 feet in elevation. Blooms April–May.	Not expected to occur. The project site does not contain habitat suitable for this species.
Otay tarplant *Deinandra conjugens*	FT	SE	1B.1	Coastal plains, mesas, and river bottoms; often in open, disturbed areas; clay soils. 197–902 feet in elevation. Blooms May–June.	Not expected to occur. The project site does not contain habitat suitable for this species.

Species	Listing Status[1] Federal	Listing Status[1] State	CRPR	Habitat	Potential for Occurrence
Orcutt's bird's-beak *Dicranostegia orcuttiana*	–	–	2B.1	Found in coastal scrub associations on slopes; also reported from intermittently moist swales, and in washes. 0–656 feet in elevation. Blooms April–July.	Not expected to occur. The project site does not contain habitat suitable for this species.
Orcutt's dudleya *Dudleya attenuata* ssp. *attenuata*	–	–	2B.1	Rocky mesas, canyons, and ridges. 10–164 feet in elevation. Blooms May–July.	Not expected to occur. The project site does not contain habitat suitable for this species.
Blochman's dudleya *Dudleya blochmaniae* ssp. *blochmaniae*	–	–	1B.1	Open, rocky slopes; often in shallow clays over serpentine or in rocky areas with little soil. 16–1,476 feet in elevation. Blooms April–June.	Not expected to occur. The project site does not contain habitat suitable for this species.
Short-leaved dudleya *Dudleya brevifolia*	–	SE	1B.1	On Torrey sandstone soils; in pebbly openings. 98–410 feet in elevation. Blooms April–May.	Not expected to occur. The project site does not contain habitat suitable for this species.
Variegated dudleya *Dudleya variegata*	–	–	1B.2	In rocky or clay soils, sometimes associated with vernal pool margins. 10–1,903 feet in elevation. Blooms April–June.	Not expected to occur. The project site does not contain habitat suitable for this species.
Sticky dudleya *Dudleya viscida*	–	–	1B.2	On north and south-facing cliffs and banks. 33–1,804 feet in elevation. Blooms May–June.	Not expected to occur. The project site does not contain habitat suitable for this species.
Palmer's goldenbush *Ericameria palmeri* var. *palmeri*	–	–	1B.1	On granitic soils, on steep hillsides. Mesic sites. 16–2,051 feet in elevation. Blooms September–November.	Not expected to occur. The project site does not contain habitat suitable for this species.
San Diego button-celery *Eryngium aristulatum* var. *parishii*	FE	SE	1B.1	San Diego mesa hardpan and claypan vernal pools and southern interior basalt flow vernal pools; usually surrounded by scrub. 49–2,887 feet in elevation. Blooms April–June.	Not expected to occur. The project site does not contain habitat suitable for this species.
Sand-loving wallflower *Erysimum ammophilum*	–	–	1B.2	Sandy openings. 0–197 feet in elevation. Blooms February–June.	Not expected to occur. The project site does not contain habitat suitable for this species.
Cliff spurge *Euphorbia misera*	–	–	2B.2	Rocky sites. 10–1,411 feet in elevation. Blooms December–August.	Not expected to occur. The project site does not contain habitat suitable for this species.
San Diego barrel cactus *Ferocactus viridescens*	–	–	2B.1	Often on exposed, level or south-sloping areas; often in coastal scrub near crest of slopes. 10–1,608 feet in elevation. Blooms May–June.	Not expected to occur. The project site does not contain habitat suitable for this species.
Palmer's frankenia *Frankenia palmeri*	–	–	2B.1	Coastal dunes, coastal salt marshes, playas. 0–33 feet in elevation. Blooms May–July.	Not expected to occur. The project site does not contain habitat suitable for this species.
Campbell's liverwort *Geothallus tuberosus*	–	–	1B.1	Coastal scrub, vernal pools. Liverwort known from mesic soil. 33–1,969 feet in elevation.	Not expected to occur. The project site does not contain habitat suitable for this species.
San Diego gumplant *Grindelia hallii*	–	–	1B.2	Frequently occurs in low moist areas in meadows. 607–5,725 feet in elevation. Blooms May–October.	Not expected to occur. The project site does not contain habitat suitable for this species.
Beach goldenaster *Heterotheca sessiliflora* ssp. *sessiliflora*	–	–	1B.1	Sandy sites. 0–16 feet in elevation. Blooms March–December.	Not expected to occur. The project site does not contain habitat suitable for this species.
Decumbent goldenbush *Isocoma menziesii* var. *decumbens*	–	–	1B.2	Sandy soils; often in disturbed sites. 3–3,002 feet in elevation. Blooms April–November.	Not expected to occur. The project site does not contain habitat suitable for this species.

Species	Listing Status[1] Federal	Listing Status[1] State	CRPR	Habitat	Potential for Occurrence
San Diego marsh-elder *Iva hayesiana*	–	–	2B.2	Marshes and swamps, playas. River washes. 3–1,411 feet in elevation. Blooms April–October.	Not expected to occur. The project site does not contain habitat suitable for this species.
Coulter's goldfields *Lasthenia glabrata* ssp. *coulteri*	–	–	1B.1	Usually found on alkaline soils in playas, sinks, and grasslands. 3–4,511 feet in elevation. Blooms February–June.	Not expected to occur. The project site does not contain habitat suitable for this species.
Heart-leaved pitcher sage *Lepechinia cardiophylla*	–	–	1B.2	Closed-cone coniferous forest, chaparral, cismontane woodland. 1,706–4,495 feet in elevation. Blooms April–July.	Not expected to occur. The project site does not contain habitat suitable for this species.
Sea dahlia *Leptosyne maritima*	–	–	2B.2	Occurs on a variety of soil types, including sandstone. 16–607 feet in elevation. Blooms March–May.	Not expected to occur. The project site does not contain habitat suitable for this species.
Willowy monardella *Monardella viminea*	FE	SE	1B.1	In canyons, in rocky and sandy places, sometimes in washes or floodplains. Alluvial, ephemeral washes with adjacent coastal scrub. 148–755 feet in elevation. Blooms June–August.	Not expected to occur. The project site does not contain habitat suitable for this species.
Mud nama *Nama stenocarpa*	–	–	2B.2	Lake shores, riverbanks, and intermittently wet areas. 16–1,640 feet in elevation. Blooms January–July.	Not expected to occur. The project site does not contain habitat suitable for this species.
Spreading navarretia *Navarretia fossalis*	FT	–	1B.1	San Diego hardpan and San Diego claypan vernal pools; in swales and vernal pools, often surrounded by other habitat types. 49–2,789 feet in elevation. Blooms April–June.	Not expected to occur. The project site does not contain habitat suitable for this species.
Prostrate vernal pool navarretia *Navarretia prostrata*	–	–	1B.1	Alkaline soils in grassland, or in vernal pools. Mesic, alkaline sites. 10–4,052 feet in elevation. Blooms April–July.	Not expected to occur. The project site does not contain habitat suitable for this species.
Coast woolly-heads *Nemacaulis denudata* var. *denudata*	–	–	1B.2	Coastal dunes. 0–328 feet in elevation. Blooms April–September.	Not expected to occur. The project site does not contain habitat suitable for this species.
Slender cottonheads *Nemacaulis denudata* var. *gracilis*	–	–	2B.2	In dunes or sand. -164–1,312 feet in elevation. Blooms April–May.	Not expected to occur. The project site does not contain habitat suitable for this species.
California Orcutt grass *Orcuttia californica*	FE	SE	1B.1	Vernal pools, wetland. 33–2,165 feet in elevation. Blooms April–August.	Not expected to occur. The project site does not contain habitat suitable for this species.
Baja California birdbush *Ornithostaphylos oppositifolia*	–	SE	2B.1	Chaparral. 180–2,625 feet in elevation. Blooms January–April.	Not expected to occur. The project site does not contain habitat suitable for this species.
Brand's star phacelia *Phacelia stellaris*	–	–	1B.1	Coastal scrub, coastal dunes. Open areas. 3–1,312 feet in elevation. Blooms March–June.	Not expected to occur. The project site does not contain habitat suitable for this species.
San Diego mesa mint *Pogogyne abramsii*	FE	SE	1B.1	Vernal pools within grasslands, chamise chaparral, or coastal sage scrub communities. 230–640 feet in elevation. Blooms March–July.	Not expected to occur. The project site does not contain habitat suitable for this species.
Otay Mesa mint *Pogogyne nudiuscula*	FE	SE	1B.1	Dry beds of vernal pools and moist swales. 443–541 feet in elevation. Blooms May–July.	Not expected to occur. The project site does not contain habitat suitable for this species.

Species	Listing Status[1] Federal	Listing Status[1] State	CRPR	Habitat	Potential for Occurrence
Nuttall's scrub oak *Quercus dumosa*	–	–	1B.1	Generally, on sandy soils near the coast; sometimes on clay loam. 49–1,312 feet in elevation. Blooms February–April.	Not expected to occur. The project site does not contain habitat suitable for this species.
Santa Catalina Island currant *Ribes viburnifolium*	–	–	1B.2	Among shrubs in canyons. 98–1,001 feet in elevation. Blooms February–April.	Not expected to occur. The project site does not contain habitat suitable for this species.
Small-leaved rose *Rosa minutifolia*	–	SE	2B.1	Coastal scrub, chaparral. Cobbly soil at the head of a small, dry canyon on Otay Mesa. 492–525 feet in elevation. Blooms January–June.	Not expected to occur. The project site does not contain habitat suitable for this species.
Munz's sage *Salvia munzii*	–	–	2B.2	Rolling hills and slopes, in rocky soil. 115–1,886 feet in elevation. Blooms February–April.	Not expected to occur. The project site does not contain habitat suitable for this species.
Chaparral ragwort *Senecio aphanactis*	–	–	2B.2	Drying alkaline flats. 66–2,805 feet in elevation. Blooms January–April.	Not expected to occur. The project site does not contain habitat suitable for this species.
Salt Spring checkerbloom *Sidalcea neomexicana*	–	–	2B.2	Alkali springs and marshes. 0–5,020 feet in elevation. Blooms March–June.	Not expected to occur. The project site does not contain habitat suitable for this species.
Bottle liverwort *Sphaerocarpos drewei*	–	–	1B.1	Chaparral, coastal scrub. Liverwort in openings; on soil. 295–1,969 feet in elevation.	Not expected to occur. The project site does not contain habitat suitable for this species.
Purple stemodia *Stemodia durantifolia*	–	–	2B.1	Sandy soils; mesic sites. 115–1,263 feet in elevation. Blooms January–December.	Not expected to occur. The project site does not contain habitat suitable for this species.
Oil neststraw *Stylocline citroleum*	–	–	1B.1	Flats, clay soils in oil-producing areas. 164–1,312 feet in elevation. Blooms March–April.	Not expected to occur. The project site does not contain habitat suitable for this species.
Estuary seablite *Suaeda esteroa*	–	–	1B.2	Coastal salt marshes in clay, silt, and sand substrates. 0–16 feet in elevation. Blooms May–October.	Not expected to occur. The project site does not contain habitat suitable for this species.
Parry's tetracoccus *Tetracoccus dioicus*	–	–	1B.2	Stony, decomposed gabbro soil. 541–3,281 feet in elevation. Blooms April–May.	Not expected to occur. The project site does not contain habitat suitable for this species.
California screw moss *Tortula californica*	–	–	1B.2	Moss growing on sandy soil. 33–4,790 feet in elevation.	Not expected to occur. The project site does not contain habitat suitable for this species.

Notes: CRPR = California Rare Plant Rank; CEQA = California Environmental Quality Act; ESA = Endangered Species Act; NPPA = Native Plant Protection Act

1 Legal Status Definitions

Federal:

FE Federally Listed as Endangered (legally protected by ESA)

FT Federally Listed as Threatened (legally protected by ESA)

State:

SE State Listed as Endangered (legally protected by CESA)

California Rare Plant Ranks (CRPR):

1B Plant species considered rare or endangered in California and elsewhere (protected under CEQA, but not legally protected under ESA or CESA).

2B Plant species considered rare or endangered in California but more common elsewhere (protected under CEQA, but not legally protected under ESA or CESA).

CRPR Threat Ranks:

0.1 Seriously threatened in California (over 80% of occurrences threatened; high degree and immediacy of threat)

0.2 Moderately threatened in California (20-80% occurrences threatened; moderate degree and immediacy of threat)

Sources: CNDDB 2021; CNPS 2021

Special-Status Wildlife Species Known to Occur in the Vicinity of the Project Site and Potential for Occurrence on the Project Site

Species	Listing Status[1] Federal	Listing Status[1] State	Habitat	Potential for Occurrence
Amphibians and Reptiles				
Arroyo toad *Anaxyrus californicus*	FE	SSC	Semi-arid regions near washes or intermittent streams, including valley-foothill and desert riparian, and desert wash. Rivers with sandy banks, willows, cottonwoods, and sycamores; loose, gravelly areas of streams in drier parts of range.	Not expected to occur. The project site does not contain habitat suitable for this species.
Baja California coachwhip *Coluber fuliginosus*	–	SSC	In California restricted to southern San Diego County, where it is known from grassland and coastal sage scrub.	Not expected to occur. The project site does not contain habitat suitable for this species.
California glossy snake *Arizona elegans occidentalis*	–	SSC	Patchily distributed from the eastern portion of the San Francisco Bay, southern San Joaquin Valley, and the Coast, Transverse, and Peninsular Ranges south to Baja California. Generalist reported from a range of scrub and grassland habitats, often with loose or sandy soils.	Not expected to occur. The project site does not contain habitat suitable for this species.
California red-legged frog *Rana draytonii*	FT	SSC	Lowlands and foothills in or near permanent sources of deep water with dense, shrubby, or emergent riparian vegetation. Requires 11-20 weeks of permanent water for larval development. Must have access to estivation habitat.	Not expected to occur. The project site does not contain habitat suitable for this species.
Coast horned lizard *Phrynosoma blainvillii*	–	SSC	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes. Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	Not expected to occur. The project site does not contain habitat suitable for this species.
Coast patch-nosed snake *Salvadora hexalepis virgultea*	–	SSC	Brushy or shrubby vegetation in coastal Southern California. Require small mammal burrows for refuge and overwintering sites.	Not expected to occur. The project site does not contain habitat suitable for this species.
Coast Range newt *Taricha torosa*	–	SSC	Coastal drainages from Mendocino County to San Diego County. Lives in terrestrial habitats and will migrate to breed in ponds, reservoirs, and slow-moving streams.	Not expected to occur. The project site does not contain habitat suitable for this species.
Coastal whiptail *Aspidoscelis tigris stejnegeri*	–	SSC	Found in deserts and semiarid areas with sparse vegetation and open areas. Also found in woodland and riparian areas. Ground may be firm soil, sandy, or rocky.	Not expected to occur. The project site does not contain habitat suitable for this species.
Green sea turtle *Chelonia mydas*	FT	–	Marine. Completely herbivorous; needs adequate supply of seagrasses and algae.	May occur. Green sea turtles are known to occur in San Diego Bay (NOAA 2021) and could be present in the marine environments in the project site while foraging and travelling.

Species	Listing Status[1] Federal	Listing Status[1] State	Habitat	Potential for Occurrence
Southern California legless lizard *Anniella stebbinsi*	–	SSC	Generally, south of the Transverse Range, extending to northwestern Baja California. Occurs in sandy or loose loamy soils under sparse vegetation. Disjunct populations in the Tehachapi and Piute Mountains in Kern County. Variety of habitats in moist, loose soil.	Not expected to occur. The project site does not contain habitat suitable for this species.
Two-striped gartersnake *Thamnophis hammondii*	–	SSC	Coastal California from vicinity of Salinas to northwest Baja California. From sea to about 7,000 feet elevation. Highly aquatic, found in or near permanent fresh water. Often along streams with rocky beds and riparian growth.	Not expected to occur. The project site does not contain habitat suitable for this species.
Western pond turtle *Actinemys marmorata*	–	SSC	Aquatic turtle of ponds, marshes, rivers, streams, and irrigation ditches, usually with aquatic vegetation, below 6,000 feet elevation. Need basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 km from water for egg-laying.	Not expected to occur. The project site does not contain habitat suitable for this species.
Western spadefoot *Spea hammondii*	–	SSC	Occurs primarily in grassland habitats but can be found in valley-foothill hardwood woodlands. Vernal pools are essential for breeding and egg-laying.	Not expected to occur. The project site does not contain habitat suitable for this species.
Birds				
American peregrine falcon *Falco peregrinus anatum*	FD	SD FP	Near wetlands, lakes, rivers, or other water; on cliffs, banks, dunes, mounds; also, human-made structures. Nest consists of a scrape or a depression or ledge in an open site.	May occur. There are many documented observations of American peregrine falcons in the vicinity of San Diego Bay (eBird 2021). While the project site does not contain nesting habitat suitable for this species, falcons may nest on human-made structures nearby, and may forage for seabirds and waterfowl in marine environments in the project site.
American white pelican *Pelecanus erythrorhynchos*	–	SSC	Colonial nester on large interior lakes. Nests on large lakes, providing safe roosting and breeding places in the form of well-sequestered islets.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Ashy storm-petrel *Oceanodroma homochroa*	–	SSC	Protected deep water coastal communities. Colonial nester on offshore islands. Usually nests on driest part of islands. Forages over open ocean. Nest sites on islands are in crevices beneath loosely piled rocks or driftwood, or in caves.	Not expected to occur. This species typically occurs in pelagic environments, and it is unlikely that ashy storm-petrels would forage in San Diego Bay.
Belding's savannah sparrow *Passerculus sandwichensis beldingi*	–	SE	Inhabits coastal salt marshes, from Santa Barbara south through San Diego County. Nests in *Salicornia* on and about margins of tidal flats.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Black skimmer *Rynchops niger*	–	SSC	Nests on gravel bars, low islets, and sandy beaches, in unvegetated sites.	May occur. There are many documented observations of black skimmer in the vicinity of San Diego Bay (eBird 2021). While the project site does not contain nesting habitat suitable for this species, black skimmers may forage in marine environments in the project site.

Species	Listing Status[1] Federal	Listing Status[1] State	Habitat	Potential for Occurrence
Black swift *Cypseloides niger*	–	SSC	Coastal belt of Santa Cruz and Monterey Co; central and southern Sierra Nevada; San Bernardino and San Jacinto Mountains. Breeds in small colonies on cliffs behind or adjacent to waterfalls in deep canyons and sea-bluffs above the surf; forages widely	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Black tern *Chlidonias niger*	–	SSC	Freshwater lakes, ponds, marshes and flooded agricultural fields. At coastal lagoons and estuaries during migration. Breeding range reduced. Breeds primarily in Modoc Plateau region, with some breeding in Sacramento and San Joaquin valleys	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Brant *Branta bernicla*	–	SSC	At high tide they need sheltered open water or protected beaches for loafing. Primary food is eelgrass. Distribution is closely tied to abundance of eelgrass. Brant often feeds close to mudflats, sandbars or spits used as gritting sites.	May occur. There are many documented observations of brant in the vicinity of San Diego Bay (eBird 2021). While the project site does not contain nesting habitat suitable for this species, brants may forage in marine environments in the project site.
Burrowing owl *Athene cunicularia*	–	SSC	Open, dry annual or perennial grasslands, deserts and scrublands characterized by low-growing vegetation. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
California black rail *Laterallus jamaicensis coturniculus*	–	ST FP	Inhabits freshwater marshes, wet meadows and shallow margins of saltwater marshes bordering larger bays. Needs water depths of about 1 inch that do not fluctuate during the year and dense vegetation for nesting habitat.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
California brown pelican *Pelecanus occidentalis californicus*	FD	SD FP	Colonial nester on coastal islands just outside the surf line. Nests on coastal islands of small to moderate size which afford immunity from attack by ground-dwelling predators. Roosts communally.	May occur. There are many documented observations of California brown pelicans in the vicinity of San Diego Bay (eBird 2021). While the project site does not contain nesting habitat suitable for this species, brown pelicans may forage in marine environments in the project site.
California condor *Gymnogyps californianus*	FE	SE FP	Require vast expanses of open savannah, grasslands, and foothill chaparral in mountain ranges of moderate altitude. Deep canyons containing clefts in the rocky walls provide nesting sites. Forages up to 100 miles from roost/nest.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
California least tern *Sternula antillarum browni*	FE	SE FP	Nests along the coast from San Francisco Bay south to northern Baja California. Colonial breeder on bare or sparsely vegetated, flat substrates: sand beaches, alkali flats, landfills, or paved areas.	May occur. The project site does not contain nesting habitat suitable for this species; however, there are several known nesting occurrences near the project site, including within San Diego Bay National Wildlife Refuge (CNDDB 2021). California least terns may forage in marine environments in the project site.

Species	Listing Status[1] Federal	Listing Status[1] State	Habitat	Potential for Occurrence
Cassin's auklet *Ptychoramphus aleuticus*	–	SSC	Offshore islands with enough soil for burrowing. Will also nest in rock crevices, under buildings and in debris.	Not expected to occur. This species typically occurs in pelagic environments, and it is unlikely that Cassin's auklets would forage in San Diego Bay.
Clark's marsh wren *Cistothorus palustris clarkae*	–	SSC	Restricted to freshwater and brackish marshes dominated by bulrushes or cattails.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Coastal cactus wren *Campylorhynchus brunneicapillus sandiegensis*	–	SSC	Southern California coastal sage scrub. Wrens require tall *Opuntia* cactus for nesting and roosting.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Coastal California gnatcatcher *Polioptila californica californica*	FT	SSC	Obligate, permanent resident of coastal sage scrub below 2,500 feet in Southern California. Low, coastal sage scrub in arid washes, on mesas and slopes. Not all areas classified as coastal sage scrub are occupied.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Common loon *Gavia immer*	–	SSC	Nesting locations at certain large lakes and reservoirs in interior of state, primarily in northeastern plateau region. Bodies of water regularly frequented are extensive, deep, and produce quantities of large fish.	May occur. There are many documented observations of common loon in the vicinity of San Diego Bay (eBird 2021). While the project site does not contain nesting habitat suitable for this species, common loons may forage in marine environments in the project site.
Golden eagle *Aquila chrysaetos*	–	FP	Rolling foothills, mountain areas, sage-juniper flats, and desert. Cliff-walled canyons provide nesting habitat in most parts of range; also, large trees in open areas.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Grasshopper sparrow *Ammodramus savannarum*	–	SSC	Dense grasslands on rolling hills, lowland plains, in valleys and on hillsides on lower mountain slopes. Favors native grasslands with a mix of grasses, forbs, and scattered shrubs. Loosely colonial when nesting.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Gull-billed tern *Gelochelidon nilotica*	–	SSC	Only known breeding colonies at San Diego Bay and the Salton Sea. Nests on low, sandy islets. Known to feed on fishes at mouth of Colorado River and on grasshoppers in alfalfa fields.	May occur. There are many documented observations of gull-billed terns in the vicinity of San Diego Bay (eBird 2021). While the project site does not contain nesting habitat suitable for this species, brown pelicans may forage in marine environments in the project site.
Least Bell's vireo *Vireo bellii pusillus*	FE	SE	Summer resident of Southern California in low riparian in vicinity of water or in dry river bottoms; below 2,000 feet. Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, *Baccharis*, mesquite.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Light-footed Ridgway's rail *Rallus obsoletus levipes*	FE	SE FP	Found in salt marshes traversed by tidal sloughs, where cordgrass and pickleweed are the dominant vegetation. Requires dense growth of either pickleweed or cordgrass for nesting or escape cover; feeds on mollusks and crustaceans.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.

Species	Listing Status[1] Federal	Listing Status[1] State	Habitat	Potential for Occurrence
Loggerhead shrike *Lanius ludovicianus*	–	SSC	Broken woodlands, savannah, pinyon-juniper, Joshua tree, and riparian woodlands, desert oases, scrub, and washes. Prefers open country for hunting, with perches for scanning, and dense shrubs and brush for nesting.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Long-eared owl *Asio otus*	–	SSC	Riparian bottomlands grown to tall willows and cottonwoods; also, belts of live oak paralleling stream courses. Require adjacent open land productive of mice and the presence of old nests of crows, hawks, or magpies for breeding.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Mountain plover *Charadrius montanus*	–	SSC	Short grasslands, freshly plowed fields, newly sprouting grain fields, and sometimes sod farms. Short vegetation, bare ground, and flat topography. Prefers grazed areas and areas with burrowing rodents.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Northern goshawk *Accipiter gentilis*	–	SSC	Within, and in vicinity of, coniferous forest. Usually nests on north slopes, near water. Red fir, lodgepole pine, Jeffrey pine, and aspens are typical nest trees.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Northern harrier *Circus cyaneus*	–	SSC	Coastal salt and freshwater marsh. Nest and forage in grasslands, from salt grass in desert sink to mountain cienagas. Nests on ground in shrubby vegetation, usually at marsh edge; nest built of a large mound of sticks in wet areas.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Purple martin *Progne subis*	–	SSC	Inhabits woodlands, low elevation coniferous forest of Douglas-fir, ponderosa pine, and Monterey pine. Nests in old woodpecker cavities mostly, also in human-made structures. Nest often located in tall, isolated tree/snag.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Short-eared owl *Asio flammeus*	–	SSC	Found in swamp lands, both fresh and salt; lowland meadows; irrigated alfalfa fields. Tule patches/tall grass needed for nesting/daytime seclusion. Nests on dry ground in depression concealed in vegetation.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Short-tailed albatross *Phoebastria albatrus*	FE	SSC	Forages at sea, but specific geographic and seasonal distribution patterns within the marine range are not well understood.	Not expected to occur. This species typically occurs in pelagic environments, and it is unlikely that short-tailed albatrosses would forage in San Diego Bay.
Southwestern willow flycatcher *Empidonax traillii extimus*	FE	SE	Riparian woodlands in Southern California.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Swainson's hawk *Buteo swainsoni*	–	ST	Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, and agricultural or ranch lands with groves or lines of trees. Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.

Species	Listing Status[1] Federal	Listing Status[1] State	Habitat	Potential for Occurrence
Tricolored blackbird *Agelaius tricolor*	–	ST SSC	Highly colonial species, most numerous in Central Valley and vicinity. Largely endemic to California. Requires open water, protected nesting substrate, and foraging area with insect prey within a few kilometers of the colony.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Vaux's swift *Chaetura vauxi*	–	SSC	Redwood, Douglas fir, and other coniferous forests. Nests in large hollow trees and snags. Often nests in flocks. Forages over most terrains and habitats but shows a preference for foraging over rivers and lakes.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Vermilion flycatcher *Pyrocephalus rubinus*	–	SSC	During nesting, inhabits desert riparian adjacent to irrigated fields, irrigation ditches, pastures, and other open, mesic areas. Nests in cottonwood, willow, mesquite, and other large desert riparian trees.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Western snowy plover *Charadrius alexandrinus nivosus*	FT	SSC	Sandy beaches, salt pond levees and shores of large alkali lakes. Needs sandy, gravelly, or friable soils for nesting.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Western yellow-billed cuckoo *Coccyzus americanus occidentalis*	FT	SE	Riparian forest nester, along the broad, lower flood-bottoms of larger river systems. Nests in riparian jungles of willow, often mixed with cottonwoods, with lower story of blackberry, nettles, or wild grape.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
White-tailed kite *Elanus leucurus*		FP	Rolling foothills and valley margins with scattered oaks and river bottomlands or marshes next to deciduous woodland. Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Willow flycatcher *Empidonax traillii*	–	SE	Inhabits extensive thickets of low, dense willows on edge of wet meadows, ponds, or backwaters; 2,000-8,000 feet elevation Requires dense willow thickets for nesting/roosting. Low, exposed branches are used for singing posts/hunting perches.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Yellow rail *Coturnicops noveboracensis*	–	SSC	Summer resident in eastern Sierra Nevada in Mono County. Fresh-water marshlands.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Yellow warbler *Setophaga petechia*	–	SSC	Riparian plant associations close to water. Also nests in montane shrubbery in open conifer forests in Cascades and Sierra Nevada. Frequently found nesting and foraging in willow shrubs and thickets, and in other riparian plants including cottonwoods, sycamores, ash, and alders.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Yellow-breasted chat *Icteria virens*	–	SSC	Summer resident; inhabits riparian thickets of willow and other brushy tangles near watercourses. Nests in low, dense riparian, consisting of willow, blackberry, wild grape; forages and nests within 10 feet of ground.	Not expected to occur. The project site does not contain nesting or foraging habitat suitable for this species.
Invertebrates				
Crotch bumble bee *Bombus crotchii*	–	–	Coastal California east to the Sierra-Cascade crest and south into Mexico. Food plant genera include *Antirrhinum*, *Phacelia*, *Clarkia*, *Dendromecon*, *Eschscholzia*, and *Eriogonum*.	Not expected to occur. The project site does not contain habitat suitable for this species.

Species	Listing Status[1] Federal	Listing Status[1] State	Habitat	Potential for Occurrence
Hermes copper butterfly *Lycaena hermes*	FC	–	Found in southern mixed chaparral and coastal sage scrub at western edge of Laguna Mountains. Host plant is *Rhamnus crocea*. Although *Rhamnus crocea* is widespread throughout the coast range, Hermes copper butterfly is not.	Not expected to occur. The project site does not contain habitat suitable for this species.
Monarch - California overwintering population *Danaus plexippus* pop. 1	–	–	Winter roost sites extend along the coast from northern Mendocino to Baja California, Mexico. Roosts located in wind-protected tree groves (eucalyptus, Monterey pine, cypress), with nectar and water sources nearby.	Not expected to occur. The project site does not contain habitat suitable for this species.
Quino checkerspot butterfly *Euphydryas editha quino*	FE	–	Sunny openings within chaparral and coastal sage shrublands in parts of Riverside and San Diego counties. Hills and mesas near the coast. need high densities of food plants *Plantago erecta*, *Plantago insularis*, and *Orthocarpus purpurescens*.	Not expected to occur. The project site does not contain habitat suitable for this species.
Riverside fairy shrimp *Streptocephalus woottoni*	FE	–	Endemic to western Riverside, Orange, and San Diego counties in areas of tectonic swales/earth slump basins in grassland and coastal sage scrub. Inhabit seasonally astatic pools filled by winter/spring rains. Hatch in warm water later in the season.	Not expected to occur. The project site does not contain habitat suitable for this species.
San Diego fairy shrimp *Branchinecta sandiegonensis*	FE	–	Chaparral, coastal scrub, vernal pool, wetland. Endemic to San Diego and Orange County mesas.	Not expected to occur. The project site does not contain habitat suitable for this species.
Mammals				
American badger *Taxidea taxus*	–	SSC	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. Needs sufficient food, friable soils and open, uncultivated ground. Preys on burrowing rodents. Digs burrows.	Not expected to occur. The project site does not contain habitat suitable for this species.
Big free-tailed bat *Nyctinomops macrotis*	–	SSC	Low-lying arid areas in Southern California. Need high cliffs or rocky outcrops for roosting sites. Feeds principally on large moths.	Not expected to occur. The project site does not contain habitat suitable for this species.
Bottlenose dolphin *Tursiops truncatus*	MMPA	–	Found in temperate and tropical waters around the world, including harbors, bays, gulfs, estuaries, nearshore coastal waters, deeper waters over the continental shelf, and open ocean.	May occur. The project site is within the range of this species and bottlenose dolphins may be present in the marine environments in the project site.
California sea lion *Zalophus californianus*	MMPA	–	Found in shallow waters of the eastern north Pacific Ocean, and often haul out on sandy beaches or rocky coves. May also haul out on marina docks, jetties, and buoys.	May occur. The project site is within the range of this species and California sea lions may be present in the marine environments in the project site while foraging or traveling. Harbor seals may also haul out on human-made structures in the NASSCO facility.
Dulzura pocket mouse *Chaetodipus californicus femoralis*	–	SSC	Variety of habitats including coastal scrub, chaparral and grassland in San Diego County. Attracted to grass-chaparral edges.	Not expected to occur. The project site does not contain habitat suitable for this species.

Species	Listing Status[1] Federal	Listing Status[1] State	Habitat	Potential for Occurrence
Gray whale *Eschrichtius robustus*	MMPA	–	Found in shallow coastal waters in the north Pacific Ocean. During northward migration, this species can be found close to shore.	May occur. The project site is within the range of this species and gray whales may be present in the marine environments in the project site.
Harbor seal *Phoca vitulina*	MMPA	–	Found in temperate coastal habitats along the northern coasts of North America, Europe, and Asia. Harbor seals often haul out on rocks, reefs, and beaches.	May occur. The project site is within the range of this species and harbor seals may be present in the marine environments in the project site while foraging or traveling. Harbor seals may also haul out on human-made structures in the NASSCO facility.
Long-beaked common dolphin *Delphinus capensis*	MMPA	–	Found in shallow, tropical, subtropical, and warmer temperate waters within 50 to 100 nautical miles of the coast. Can be found in inshore waters.	May occur. The project site is within the range of this species and long-beaked common dolphins may be present in the marine environments in the project site.
Mexican long-tongued bat *Choeronycteris mexicana*	–	SSC	Occasionally found in San Diego County, which is on the periphery of their range. Feeds on nectar and pollen of night-blooming succulents. Roosts in relatively well-lit caves, and in and around buildings.	Not expected to occur. The project site does not contain habitat suitable for this species.
Northern elephant seal *Mirounga angustirostris*	MMPA	FP	Breed in the Channel Islands or Baja California in Mexico. This species spends much of the year in the open ocean, and while on land, prefers sandy beaches.	Not expected to occur. The project site is within the range of this species; however, northern elephant seals do not typically occur in San Diego Bay.
Northwestern San Diego pocket mouse *Chaetodipus fallax fallax*	–	SSC	Coastal scrub, chaparral, grasslands, and sagebrush in western San Diego County. Sandy, herbaceous areas, usually in association with rocks or coarse gravel.	Not expected to occur. The project site does not contain habitat suitable for this species.
Pacific pocket mouse *Perognathus longimembris pacificus*	FE	SSC	Inhabits the narrow coastal plains from the Mexican border north to El Segundo, Los Angeles County. Seems to prefer soils of fine alluvial sands near the ocean, but much remains to be learned.	Not expected to occur. The project site does not contain habitat suitable for this species.
Pacific white-sided dolphin *Lagenorhynchus obliquidens*	MMPA	–	Found in open ocean and nearshore waters but are unlikely to be found close to shore.	Not expected to occur. The project site is within the range of this species, but Pacific white-sided dolphins are not typically found nearshore.
Pallid bat *Antrozous pallidus*	–	SSC	Deserts, grasslands, shrublands, woodlands and forests. Most common in open, dry habitats with rocky areas for roosting. Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	Not expected to occur. The project site does not contain habitat suitable for this species.
Pocketed free-tailed bat *Nyctinomops femorosaccus*	–	SSC	Variety of arid areas in Southern California; pine-juniper woodlands, desert scrub, palm oasis, desert wash, and desert riparian. Rocky areas with high cliffs.	Not expected to occur. The project site does not contain habitat suitable for this species.
Risso's dolphin *Grampus griseus*	MMPA	–	Found worldwide in temperate, subtropical, and tropical oceans. Prefer deeper waters (i.e., 3,300 feet or greater) with steep bottom topography.	Not expected to occur. The project site is within the range of this species; however, Risso's dolphins are typically found in deeper offshore waters.

Species	Listing Status[1] Federal	Listing Status[1] State	Habitat	Potential for Occurrence
San Diego black-tailed jackrabbit *Lepus californicus bennettii*	–	SSC	Intermediate canopy stages of shrub habitats and open shrub/herbaceous and tree herbaceous edges. Coastal sage scrub habitats in Southern California.	Not expected to occur. The project site does not contain habitat suitable for this species.
San Diego desert woodrat *Neotoma lepida intermedia*	–	SSC	Coastal scrub of Southern California from San Diego County to San Luis Obispo County. Moderate to dense canopies preferred. They are particularly abundant in rock outcrops and rocky cliffs and slopes.	Not expected to occur. The project site does not contain habitat suitable for this species.
Short-beaked common dolphin *Delphinus delphis*	MMPA	–	Found in warm tropical to cool temperate waters that are primarily offshore. On the United States west coast, this species is associated with the California Current and are abundant nearshore to about 300 miles offshore.	May occur. The project site is within the range of this species and short-beaked common dolphins may be present in the marine environments in the project site.
Southern sea otter *Enhydra lutris nereis*	FT MMPA	FP	Nearshore marine environments from about Ano Nuevo, San Mateo County to Point Sal, Santa Barbara County. Needs canopies of giant kelp and bull kelp for rafting and feeding. Prefers rocky substrates with abundant invertebrates.	Not expected to occur. The project site is outside of the current range of this species.
Spotted bat *Euderma maculatum*	–	SSC	Occupies a wide variety of habitats from arid deserts and grasslands through mixed conifer forests. Feeds over water and along washes. Feeds almost entirely on moths. Needs rock crevices in cliffs or caves for roosting.	Not expected to occur. The project site does not contain habitat suitable for this species.
Steller sea lion *Eumetopias jubatus*	MMPA	–	Found in colder temperate to subarctic waters of the north Pacific Ocean. Haulout and rookery sites usually consist of beaches, ledges, and rocky reefs. Typically found in coastal waters on the continental shelf, but also occur in much deeper continental slope and pelagic waters.	Not expected to occur. The project site is within the range of this species; however, Steller sea lions do not typically occur in San Diego Bay.
Western mastiff bat *Eumops perotis californicus*	–	SSC	Many open, semi-arid to arid habitats, including conifer and deciduous woodlands, coastal scrub, grasslands, and chaparral. Roosts in crevices in cliff faces, high buildings, trees, and tunnels.	Not expected to occur. The project site does not contain habitat suitable for this species.
Western red bat *Lasiurus blossevillii*	–	SSC	Roosts primarily in trees, 2-40 feet above ground, from sea level up through mixed conifer forests. Prefers habitat edges and mosaics with trees that are protected from above and open below with open areas for foraging.	Not expected to occur. The project site does not contain habitat suitable for this species.
Western yellow bat *Lasiurus xanthinus*	–	SSC	Found in valley foothill riparian, desert riparian, desert wash, and palm oasis habitats. Roosts in trees, particularly palms. Forages over water and among trees.	Not expected to occur. The project site does not contain habitat suitable for this species.

Notes: CNDDB = California Natural Diversity Database; CEQA = California Environmental Quality Act

1 Legal Status Definitions

Federal:
FE Federally Listed as Endangered (legally protected)
FT Federally Listed as Threatened (legally protected)
FD Federally Delisted

State:
FP Fully protected (legally protected)
SSC Species of special concern (no formal protection other than CEQA consideration)
SE State Listed as Endangered (legally protected)
ST State Listed as Threatened (legally protected)
SD State Delisted

Sources: CNDDB 2021, eBird 2021, NOAA 2021

Appendix E

Cultural Resources Assessment

9700 Research Drive
Irvine, California 92618
949.347.2780

Memorandum

June 7, 2021

To: Sara Giobbi, General Dynamics NASSCO

From: Barbara Bundy, PhD, RPA, Anchor QEA, LLC

cc: Adam Gale, Anchor QEA, LLC

Re: Cultural Resources Assessment
Floating Dry Dock and Waterfront Improvement Project

Introduction

General Dynamics NASSCO (NASSCO) is proposing the Floating Dry Dock Replacement and Waterfront Improvement Project (the Project; Figure 1) located at the NASSCO shipyard in San Diego, California. The Project requires a permit from the U.S. Army Corps of Engineers (Corps) under Section 404 of the Clean Water Act. The Corps must comply with Section 106 of the National Historic Preservation Act and Corps regulations at 33 Code of Federal Regulations (CFR) 325, Appendix C. Section 106 requires federal agencies to take into account the effects of their undertakings on historic properties. This memorandum assists the Corps in complying with Section 106 and applicable regulations.

Project Description

The Project is located at the NASSCO shipyard, at 2798 East Harbor Drive, in San Diego, California (Section 13 of Township 17 South, Range 3 West; latitude 32.689339 N, longitude -117.138958 W). The Project includes the following elements (Figure 2):

- Removal and replacement of the existing floating dry dock and construction of supporting infrastructure, including the following:
  - Removal of existing mooring dolphins and construction of four new dolphins supported with a total of 222 piling (in-water ground disturbance up to 100 feet below mean lower low water [MLLW])
  - Construction of a new catwalk and gangway supported by two concrete caps, each constructed on two concrete piles (in-water ground disturbance up to 100 feet below MLLW)
  - Modification to existing dry-dock approach pier, including 19 new fender piles (in-water ground disturbance up to 100 feet below MLLW)
- Repairs to the Repair Complex Wharf, including the following:
  - Replacement of the existing timber wharf with a larger, triangular-shaped wharf supported by concrete piles and protected by a pile-based wharf fender system (in-water ground disturbance up to 43 feet below MLLW)

  - Installation of a steel sheet-piled bulkhead supported by concrete piles and backfilled by placing gravel and compacted granular material on the existing slope to match the existing upland elevation (in-water ground disturbance up to 36 feet below MLLW)
- Improvements to the Repair Complex Wharf, including the following:
  - Repairs along approximately 2,450 linear feet of quay wall revetment, consisting of building up a new rock toe, overlaid with an approximate 9-inch layer of filter stone and 2-foot layer of quarter-ton rock riprap (in-water and shoreline ground disturbance of less than 1 foot)
- As-needed structural repair and/or replacement of selected piles at Berths 2, 3, 4, 5, 6, at Pier 12 and the floating dry-dock approach pier, and at the Berth 1 Platform (in-water ground disturbance up to 100 feet below MLLW)

Implementation of the Project would not expand the existing use of the Project site or result in changes to existing shipyard operations.

Regulatory Context

Under Section 106, the Corps is required to consider the effects of the permitted activity on historic properties. A historic property is any prehistoric or historic district, site, building, structure, or object included in, or eligible for inclusion in, the National Register of Historic Places (NRHP). Traditional Cultural Properties may also be historic properties. Under the Section 106 process, the Corps must consult with interested and affected Native American tribes and the State Historic Preservation Officer on potential impacts to cultural and historic resources.

To be eligible for inclusion in the NRHP, a historic property must be at least 50 years old, have significance, and retain integrity. Significance is defined as meeting one or more of the four NRHP criteria, and integrity is defined as a historic property's ability to convey its historic significance—in other words, its historic appearance and setting.

This memorandum assists the Corps with fulfilling the requirements of Section 106 and 33 CFR 325, Appendix C by recommending the following:

- The Area of Potential Effects (APE)
- Whether there are NRHP-eligible historic properties in the APE
- Whether the undertaking will adversely affect any NRHP-eligible historic properties

Natural and cultural resources in San Diego Bay are managed under the *San Diego Bay Integrated Natural Resources Management Plan* (Navy 2013). The plan indicates the completion of planning level surveys to identify significant and sensitive resources (including cultural resources) to meet regulatory requirements.

Area of Potential Effects

The recommended APE for the Project is the extent of ground disturbance (Figure 3). No changes to the Project setting or viewshed are expected. Modifications will occur to existing structures, but none are of historic age. No indirect effects are expected because the Project will not change patterns of use, circulation, or erosion. The horizontal extent of the APE is approximately 2.2 acres, and the vertical extent is 100 feet below MLLW.

Potential to Affect Historic Properties

Cultural Context

The Project is located in San Diego Bay, which is in the traditional territory of the Kumeyaay peoples (also known as Tipai-Ipai, formerly known as Kamia or Diegueno Mission Indians). At the time of European contact, the Kumeyaay lived in what is now southern California and Baja California, including the coastline from Mission Bay to lands south of Ensenada (Byrd and Raab 2007). Throughout the Holocene, Native American communities in the area were characterized at various times and places by "intensively maritime economies, seafaring, residential sedentism, and large-scale trade networks" (Byrd and Raab 2007:225). The Project area would have been an open water/subtidal zone traversed during on-water activities.

The Project area remained intertidal until the expansion of ship-building industries in the late 1930s. Figure 4 shows the Project area on U.S. Coast Survey nautical charts from 1918 to 2012. Dredging and filling to create uplands and deeper water in and adjacent to the Project area began around 1937 to 1938. Dredging and construction of a previous bulkhead occurred before 1958, based on an aerial photograph from that year (Photograph 1).

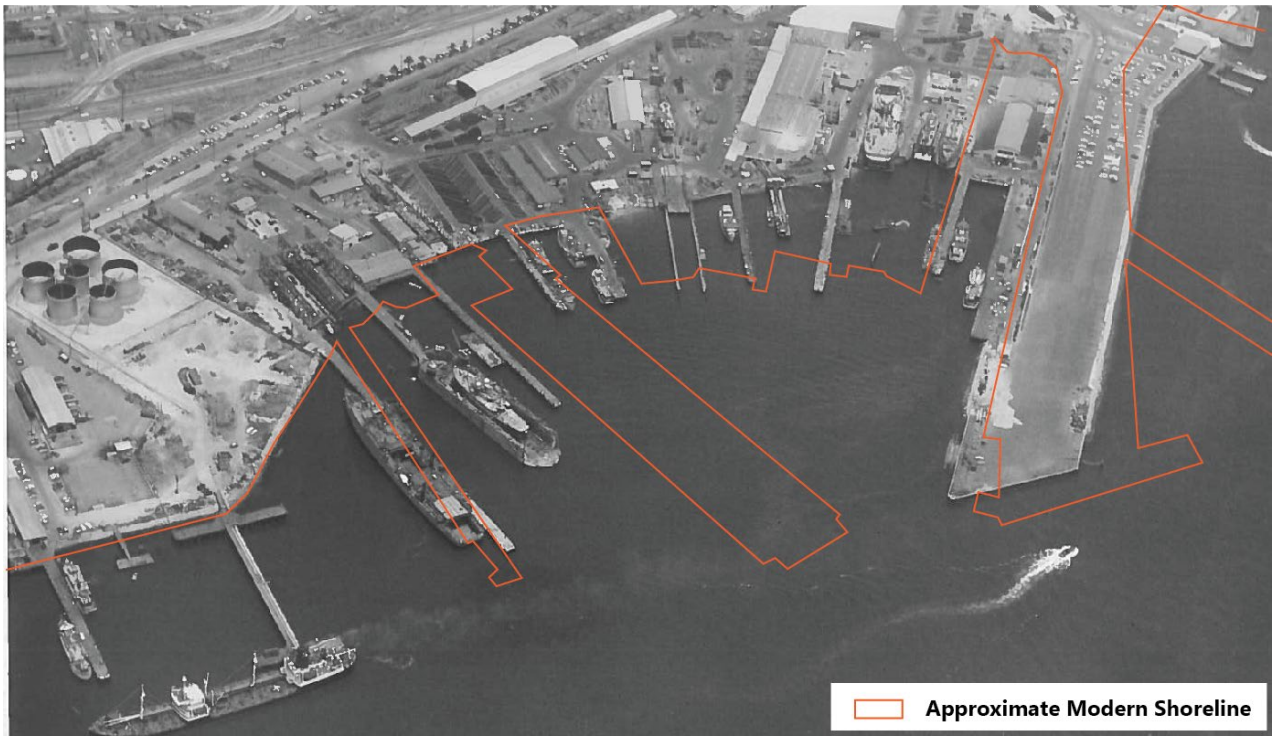
Ship repair activities have occupied the site since the 1930s. NASSCO began operations in the early 1960s, with a major renovation in the late 1970s and early 1980s. The pre-1958 bulkhead was likely replaced at that time. Table 1 lists construction dates for existing infrastructure that may be modified.

The bulkhead, Pier 12, and Berths 2 through 6 are less than 50 years old and are not historic properties. A pier in the location of Berths 1 and 2 were present as early as 1942; however, the original pier was a different shape than the existing pier: earlier versions were rectangular in shape, while the existing pier is trapezoidal. The trapezoidal shape appears on maps in 1973; it is likely that this structure was significantly renovated or replaced in 1972, when Berths 3 and 4 were added. Therefore, although the age of Berths 1 and 2 are unknown, and some individual elements such as piling may be older, the functional date of construction appears to be 1972.

A search of the California Historic Resources Information System was conducted in August 2020. The search revealed that no archaeological sites or historic structures have been recorded in the APE.

Two surveys have been conducted that overlap with the APE, but neither recorded historic properties in or near the APE (Dahl 2019; Welty 1913).

Photograph 1
1958 Aerial Photograph



Source: U.S. Army Corps of Engineers

Table 1
Construction Dates for Existing Infrastructure

Structure	Original Construction Date	Date of Major Modification
Bulkhead and Concrete Sills	1972	N/A
Repair Complex Wharf	1972	N/A
Pier 12 (complete demolition and rebuild of earlier Pier 12)	1979	1986
Berths 1 and 2	Unknown; likely circa 1972	N/A
Berths 3 and 4	Circa 1972	N/A
Berths 5 and 6	1980–1981	N/A
Dry Dock and Access	1983–1984	N/A

Sources: historicaerials.com, U.S. Geological Survey topographic maps, NASSCO records

Potential Historic Properties

Examination of nautical charts and Corps records reveal evidence of extensive dredging in the APE. Prior to historic activities, water depth was -3 to -12 feet below mean lower low water (MLLW) in the APE. After construction of the original bulkhead along the shoreline in the 1930s (Figure 2), it was -19 to -27 feet MLLW. The current depth is approximately -27 feet MLLW across the APE. Past maintenance dredging, most recently in 2018, was authorized to -37 feet MLLW. The extent of ground disturbance for pile installation will reach native sediments. However, the upper 25 to 34 feet have been removed by historic dredging. The deeper sediments that will be encountered have little likelihood to contain archaeological materials.

There are no structures older than 50 years in the APE; the existing infrastructure generally dates to the late 1970s and early 1980s. Under NRHP Criteria Consideration G, a property less than 50 years old can be eligible if it is of exceptional significance. A property can have exceptional significance if it is notable in context of other similar properties, if it has been the object of scholarly study, if it is fragile or short-lived, or if there is widespread recognition of its historical value (Sherfy and Luce 1998). The piers, berths, and bulkheads in the APE are of common construction and are not significantly associated with local, state, or national historical context. They have not been the object of scholarly study and are not ephemeral; therefore, the structures are recommended not NRHP-eligible.

Because the Project area is primarily in water, and potential for historic properties is low, no field survey was conducted.

Little Likelihood Analysis

Corps regulations in 33 CFR 325 3.b describe an initial review step that analyzes whether a proposed project has "little likelihood" to affect historic properties, as follows:

> b. In certain instances, the nature, scope, and magnitude of the work, and/or structures to be permitted may be such that there is little likelihood that a historic property exists or may be affected. Where the district engineer determines that such a situation exists, he will include a statement to this effect in the public notice. Three such situations are:
>
> (1) Areas that have been extensively modified by previous work. In such areas, historic properties that may have at one time existed within the permit area may be presumed to have been lost unless specific information indicates the presence of such a property (e.g., a shipwreck).
>
> (2) Areas which have been created in modern times. Some recently created areas, such as dredged material disposal islands, have had no human habitation. In such cases, it may be presumed that there is no potential

for the existence of historic properties unless specific information indicates the presence of such a property.

(3) Certain types of work or structures that are of such limited nature and scope that there is little likelihood of impinging upon a historic property even if such properties were to be present within the affected area.

The first and third situations are applicable to Project. For situation 1, the Project area has been extensively modified by documented previous dredging and remodeling of the landform. No specific information exists that might indicate that historic properties are still present. For situation 2, the nature and scope of the work is such that no structures will be modified or demolished for the Project, so the only potential effect is in-water ground disturbance.

Therefore, the nature, scope, and magnitude of the work is such that there is little likelihood of affecting historic properties.

Recommendations

It is recommended that the Corps determine that no historic properties will be affected by the Project. No further cultural resources research or field work is recommended.

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Figures

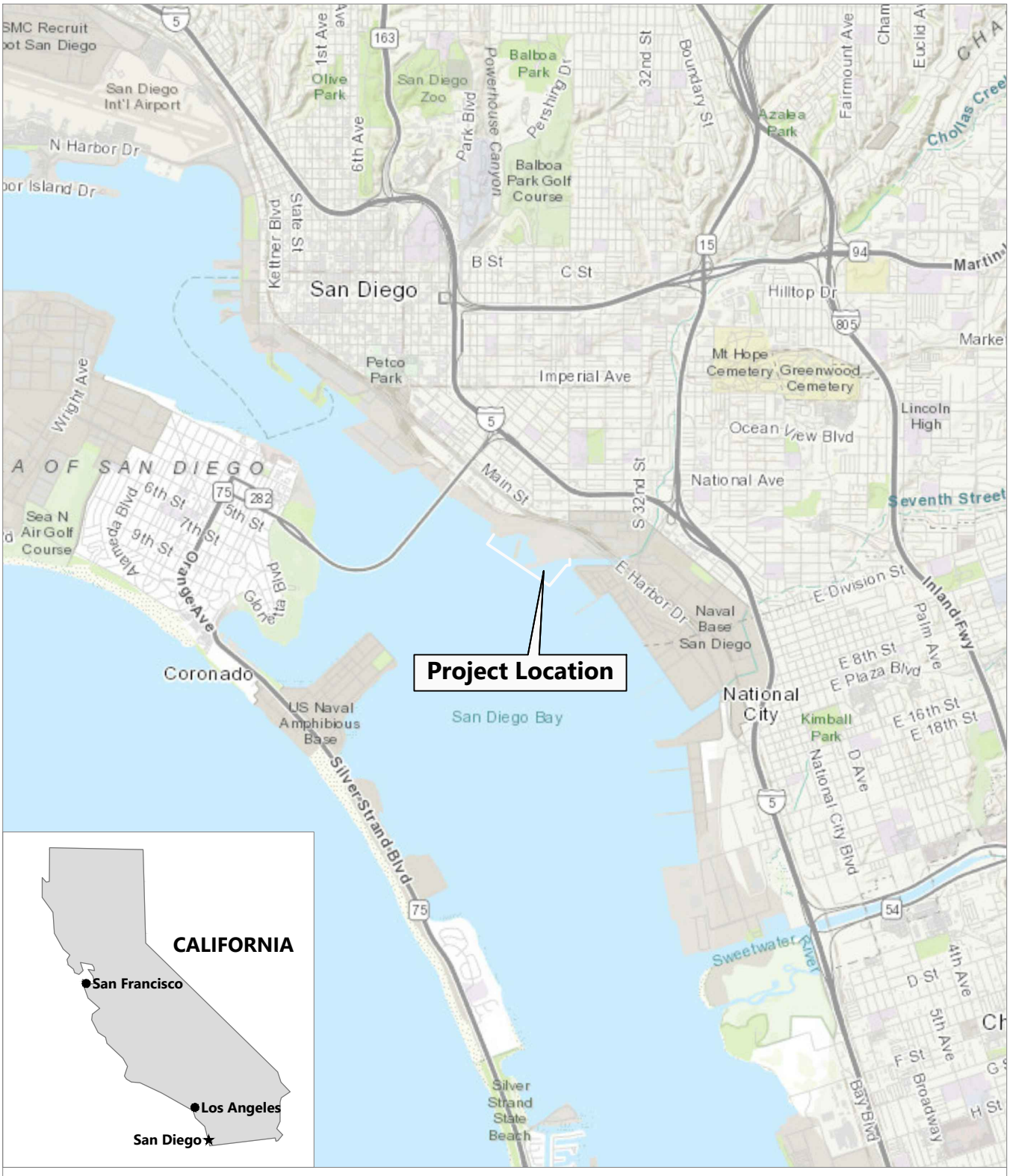

IMAGE SOURCE: ESRI
HORIZONTAL DATUM: California State Plane, Zone 6, North American Datum of 1983 (NAD83), U.S. Feet

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Miles

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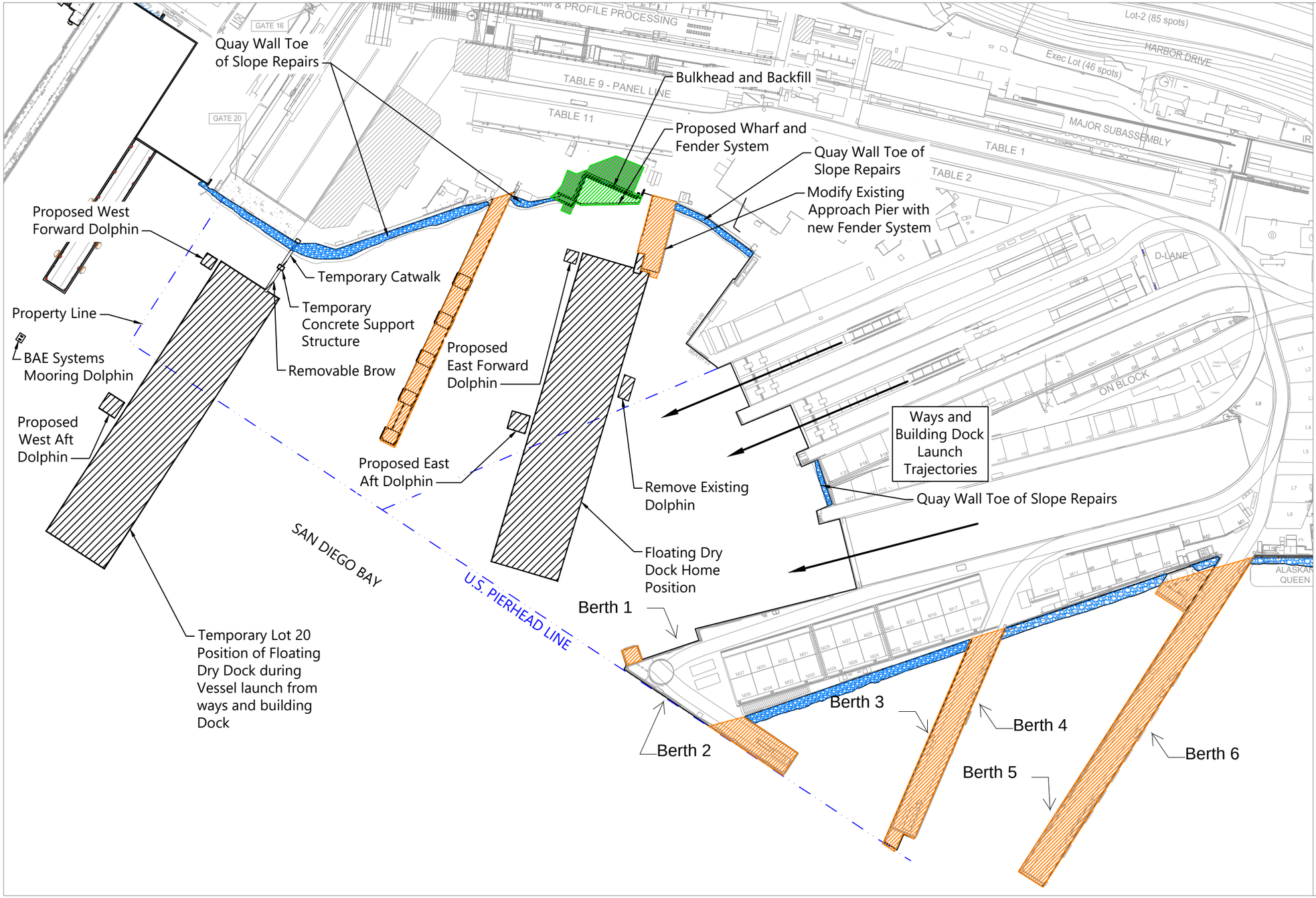
Filepath: K:\Projects\0496-General Dynamics NASSCO\Drydock Permitting and Mitigation Support\0496 RP-001 (Vicinity).dwg Figure 1

ANCHOR QEA

Figure 1
Vicinity Map

Cultural Resources Assessment
Floating Dry Dock and Waterfront Improvement Project



LEGEND:

- US Pierhead Line
- Dry Dock Improvements
- Structural Pile Repair and Replacement
- Quay Wall Toe of Slope Repairs
- Repair Complex Wharf Improvements

0 250
Feet

SOURCE: Upland Topography provided by Owner, Dated March 08, 2013; Verified by Environmental Data Solutions April 10-11, 2013, In SMA Area only.
HORIZONTAL DATUM: California State Plane, Zone VI,North American Datum of 1983 (NAD83), U.S. Survey Feet
VERTICAL DATUM: Mean Lower Low Water (MLLW)

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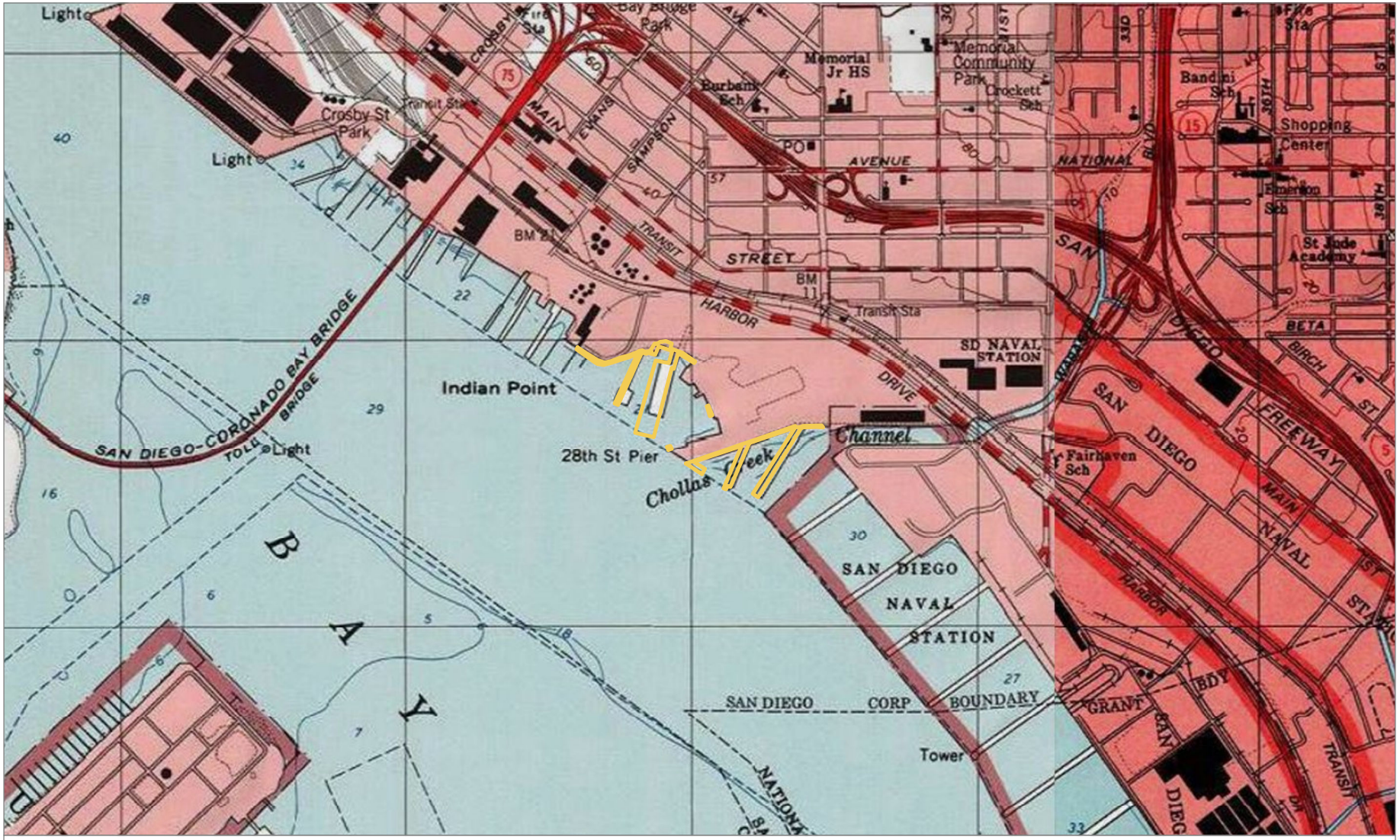
Filepath: K:\Projects\0496-General Dynamics NASSCO\Drydock Permitting and Mitigation Support\0496 RP-002.dwg Figure 2

ANCHOR QEA

Figure 2
Existing and Proposed Improvements

Floating Dry Dock and Waterfront Improvement Project
General Dynamics - NASSCO



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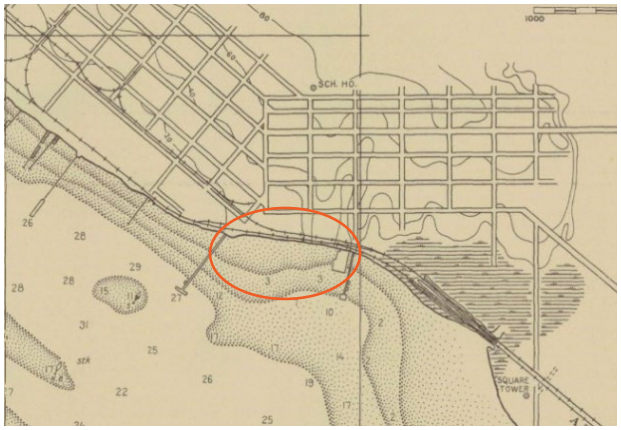
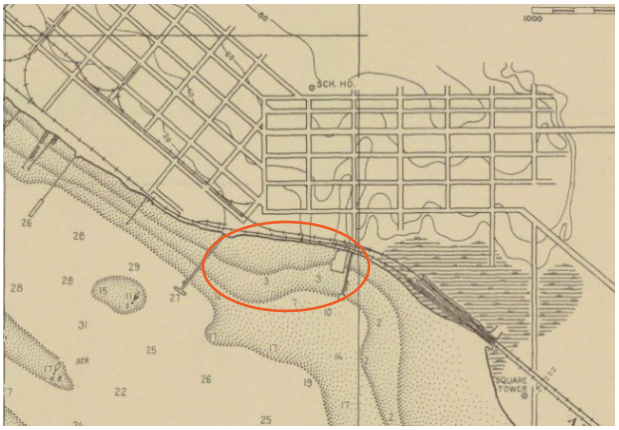
ANCHOR QEA

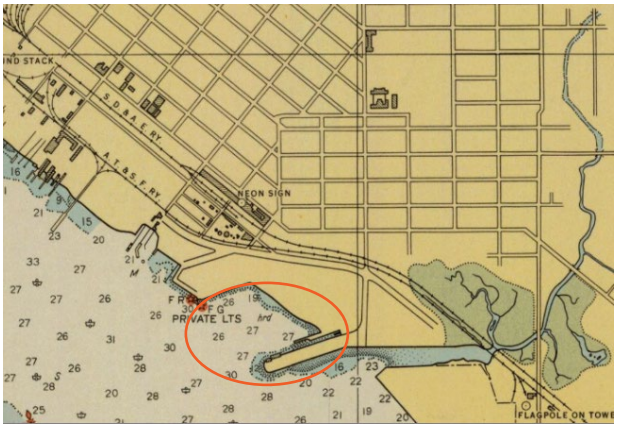
Figure 3
Recommended Area of Potential Effects
Cultural Resources Assessment
Floating Dry Dock and Waterfront Improvement Project



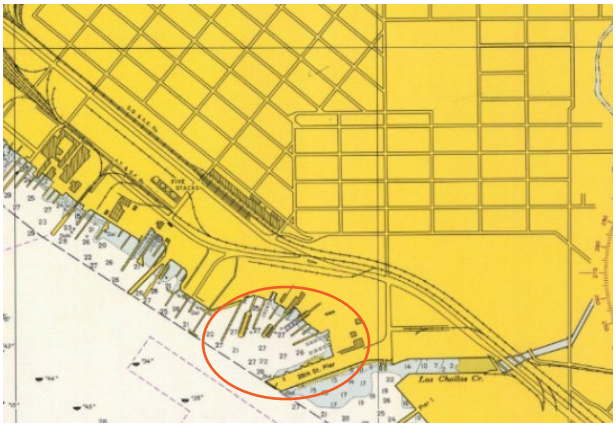
1918 San Diego Bay Nautical Chart



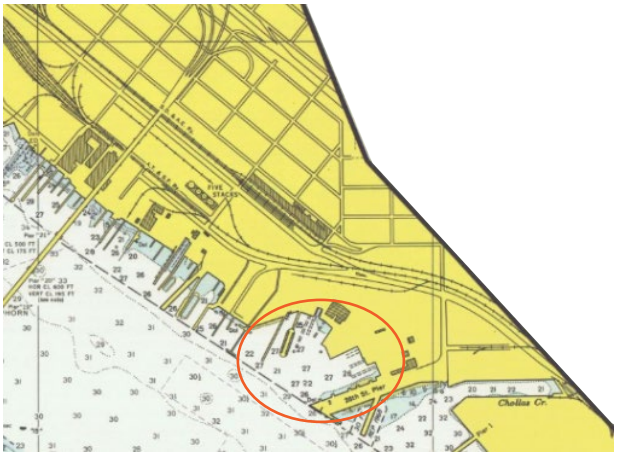
1928 San Diego Bay Nautical Chart



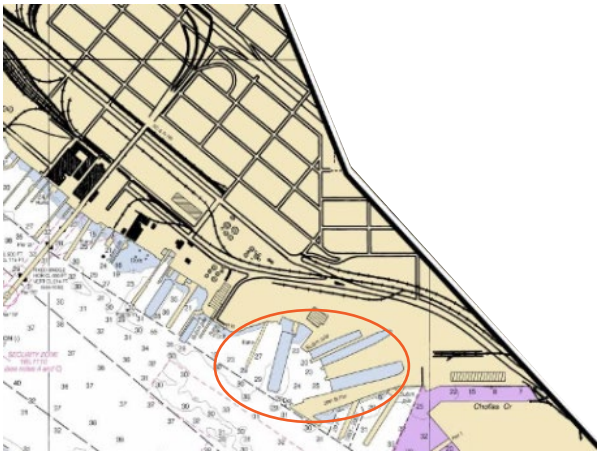
1941 San Diego Bay Nautical Chart



1966 North San Diego Bay Nautical Chart



1973 San Diego Bay Nautical Chart



2012 San Diego Bay Nautical Chart

Project Vicinity

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ANCHOR QEA

Figure 4
Shoreline Development in North San Diego Bay
Cultural Resources Assessment
Floating Dry Dock and Waterfront Improvement Project

Appendix F

Geotechnical Investigation

GEOTECHNICAL INVESTIGATION
NEW LARGE FLOATING DRY DOCK
GENERAL DYNAMICS-NASSCO SHIPYARD
SAN DIEGO, CALIFORNIA

Prepared for
R.E. STAITE ENGINEERING, INC.
San Diego, California

Prepared by
TERRACOSTA CONSULTING GROUP, INC.
San Diego, California

Project No. 3109
August 10, 2020
Revised: August 12, 2020

TerraCosta Consulting Group

Geotechnical Engineering
Coastal Engineering
Maritime Engineering

Project No. 3109
August 10, 2020
Revised: August 12, 2020

Mr. Jim Maczko
R.E. STAITE ENGINEERING, INC.
2145 E. Belt Street
San Diego, California 92113

GEOTECHNICAL INVESTIGATION
NEW LARGE FLOATING DRY DOCK
GENERAL DYNAMICS-NASSCO SHIPYARD
SAN DIEGO, CALIFORNIA

Dear Mr. Maczko:

TerraCosta Consulting Group, Inc. (TerraCosta) is pleased to submit this report presenting the results of our geotechnical investigation and subsequent studies for the proposed improvements including a sheet piled bulkhead, wharf and fender system, dry dock approach pier fenders, dry dock mooring dolphins, catwalk support, and associated shoreline repairs, in support of a new large floating dry dock at the General Dynamics-NASSCO Shipyard in San Diego, California.

The accompanying report was prepared in general accordance with our Proposal No. 20012, dated April 14, 2020. With respect to the technical aspects of the project, this report presents the results of our field investigation, laboratory testing, and engineering analyses of the subsurface conditions at the site, as well as our conclusions and recommendations pertaining to the various geotechnical aspects of the proposed improvements.

We appreciate the opportunity to be of service and trust this information meets your needs. If you have any questions or require additional information, please give us a call.

Very truly yours,
TERRACOSTA CONSULTING GROUP, INC.

Matthew W. Eckert, Ph.D. Director of Engineering, R.C.E. 45171, R.G.E. 2316

Gregory A. Spaulding, Project Geologist P.G. 5892, C.E.G. 1863

MWE/GAS/jg
Attachments

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GEOTECHNICAL INVESTIGATION
NEW LARGE FLOATING DRY DOCK
GENERAL DYNAMICS-NASSCO SHIPYARD
SAN DIEGO, CALIFORNIA

1 INTRODUCTION AND PROJECT DESCRIPTION

The proposed project site is generally located within the northwest area of the General Dynamics-NASSCO Shipyard located at 2798 Harbor Drive, San Diego, California. As we understand, the existing NASSCO floating dry dock, "Builder," will ultimately be replaced by the proposed new large floating dry dock described herein. Builder is presently located east of Pier 12, south of Buildings 19 and 20, and between Berths 8 and 9. Figure 1, the Vicinity Map, indicates the approximate location of the subject site. A Site Plan is presented as Figures 2a and 2b.

As we understand, the proposed improvements will include construction of a sheet-pile bulkhead supported by precast concrete batter piles; a triangular-shaped wharf supported by octagonal vertical precast concrete piles and associated fender system; dry dock approach fenders; dry dock mooring dolphins; a catwalk support to access the floating dry dock while moored in its temporary position; and shoreline repairs between Berths 2 and 6. The shoreline improvements will consist of repairs to the existing rock revetment located within the area described. We also understand that landside improvements may also be proposed but are not a part of this study. The above improvements will facilitate the placement of a new 35,000-ton dry dock.

The design, construction, and dredging for this project are to be performed in accordance with the requirements of the most current California Building Code (CBC) applicable at the time of permitting and within the constraints identified in this report, as well as constraints imposed by any applicable permits.

Lastly, we understand that at the time of preparation of this report, no modification or refinements have been identified for the final design requirements. If, however, any additional site testing or design evaluation become necessary, appropriate changes will be made to this report, as warranted, and such changes will be submitted to the San Diego Unified Port District by General Dynamics-NASSCO for review and approval.

2 PURPOSE AND SCOPE OF INVESTIGATION

The purpose of this investigation is to provide geologic and geotechnical information to assist General Dynamics-NASSCO and their consultants in the design, dredging, and construction for the above-described project.

According to NASSCO's Request for Proposal (RFP), the project will include the following elements:

- Sheet-Pile Bulkhead: An approximately 293-foot-long steel sheet-pile bulkhead laterally supported by precast concrete batter piles will be constructed and the water area backfilled to an elevation that approximately matches the elevation of the existing pavement at the site.

- Wharf: The proposed wharf will be a triangular-shaped structure with a plan area of approximately 6,330 square feet supported by thirty four 24-inch octagonal vertical precast concrete piles. The deck thickness will be nominally 20 inches.

- Wharf Fender System: An approximately 140-foot-long piled fender system consisting of seventeen 14-inch square precast piles will be installed along the waterside edge of the proposed wharf. The deck level fender system will consist of rubber fender units, timber walers, and timber chocks supported by the fender piles.

- Dry Dock Approach Pier Fenders: The east side of the existing concrete approach pier that provides access to the dry dock will be protected by a 150-foot-long fender system consisting of eighteen 14-inch square P.C. fender piles, rubber fender units, timber walers, and timber chocks.

- Dry Dock Mooring Dolphins: Four concrete pile-supported mooring dolphins will be constructed as part of the dry dock project. Two of the dolphins will be constructed to secure the proposed dry dock in its permanent position, which will be located in the same general position as the existing dry dock. A second pair of dolphins will be constructed near the property boundary with BAE Systems to be used for temporary mooring of the new floating dry dock when ships are launched from Ways 4.

- Catwalk Support: A connecting catwalk and gangway system will be constructed near Gate 20 to access the floating dry dock while moored in its temporary position. The outboard end of the catwalk and the inboard end of the gangway will be supported by a concrete cap constructed on a pair of 16-inch round or square concrete piles.

- Shoreline Repairs: Approximately 950 lineal feet of exposed shoreline exists between Berths 2 and 6. The revetment is constructed from rock riprap and stacked slabs of concrete. Repairs to the revetment comprise a buildup of a new rock toe at approximate elevation 0 feet MLLW and overlay of the existing revetment slope with an approximate 9-inch layer of filter stone and 2-foot layer of 1/4-ton riprap rock.

SCOPE OF WORK

In accordance with NASSCO's RFP, TerraCosta performed the following scope of work:

- Reviewed readily available geotechnical reports, maps, literature, and other data pertinent to the NASSCO facility.

- Drilled, logged, and sampled seven offshore soil borings at the locations laid out in the RFP.

- Performed laboratory testing on select soil samples, including in-situ moisture content and dry density, direct shear, and gradation on the relatively undisturbed samples.

- Assessed faulting, general seismic conditions, and other geologic hazards affecting the area and their potential impact on the project, including:
  - Seismic response spectrum for use in design of new pile-supported concrete wharf.
  - Seismic design parameters, including soil profile types, seismic coefficients, near-source factors, etc., for design of structures.

- Performed geotechnical analyses and interpretation of collected data and provided descriptions of the different soil strata encountered.

- Prepared this report, which presents descriptions of field and laboratory procedures and equipment, maps of explorations, results of laboratory tests, and recommendations regarding design parameters for dredging, design of marine piles, and lateral earth pressures for the design of sheet-pile bulkheads.

We also performed the following scope of work for design input:

<u>For 16-inch Square PC Pile Capacity Curves</u>

- Prepared curves that provide ultimate axial compression capacity for a range of pile tip elevations and a range of existing sea bed elevations: Curves are provided for sea bed elevations of 0.0, -5, -10, -15, -20, and -25 feet (MLLW) with pile tip elevations from -20 to -70 feet in increments of 5 feet. The curves provide ultimate compression capacity in kips.

- Prepared curves that provide ultimate uplift capacity for a range of pile tip elevations and a range of existing sea bed elevations: Curves are provided for sea bed elevations of 0.0, -5, -10, -15, -20, and -25 feet (MLLW) with pile tip elevations from -20 to -70 feet in increments of 5 feet. The curves provide ultimate uplift (tension) capacity in kips, and indicate whether ultimate uplift capacities include weight of the pile.

<u>For 18-inch Square PC Pile Capacity Curves</u>

- Prepared curves that provide ultimate axial compression capacity for a range of pile tip elevations and a range of existing sea bed elevations: Curves are provided for sea bed elevations of 0.0, -5, -10, -15, -20, and -25 feet (MLLW) with pile tip elevations from -20 to -70 feet in increments of 5 feet. The curves provide ultimate compression capacity in kips.

- Prepared curves that provide ultimate uplift capacity for a range of pile tip elevations and a range of existing sea bed elevations: Curves are provided for sea bed elevations of 0.0, -5, -10, -15, -20, and -25 feet (MLLW) with pile tip elevations from -20 to -70 feet in increments of 5 feet. The curves provide ultimate uplift (tension) capacity in kips, and indicate whether ultimate uplift capacities include the weight of pile.

For 24-inch Octagonal PC Pile Capacity Curves

- Prepared curves that provide ultimate axial compression capacity for a range of pile tip elevations and a range of existing sea bed elevations: Curves are provided for sea bed elevations of -20, -30, -40, and -50 feet (MLLW) with pile tip elevations from -50 to -110 feet in increments of 10 feet. The curves provide ultimate compression capacity in kips.

- Prepared curves that provide ultimate uplift capacity for a range of pile tip elevations and a range of existing sea bed elevations: Curves are provided for sea bed elevations of -20, -30, -40, and -50 feet (MLLW) with pile tip elevations from -50 to -110 feet in increments of 10 feet. The curves provide ultimate uplift (tension) capacity in kips, and indicate whether ultimate uplift capacities include weight of the pile.

Other Design Recommendations

- Lateral load capacity for vertical piles assuming both fixed-head and free-head conditions (p-y curves).

- Information on how pile capacities are affected by proximity of piles to one another.

- Recommendations on pile jetting and impact on pile capacities if piles are jetted through clay layers.

- Dredged slope stability: Dredging near the northern property boundary near Gate 20 at the locations of mooring dolphins may be required in the future to create a sump for another floating dry dock. We understand that the invert of a dredged sump may be in the range of -55 to -60 feet. Recommended stable slopes for the different types of soils encountered from elevation -30 to -55 feet (MLLW) are provided.

3 PREVIOUS STUDIES, FIELD INVESTIGATION, AND LABORATORY TESTING

3.1 Previous Studies

The following studies, which were prepared for the project site, were reviewed:

- "Report Geotechnical Investigation, Module Assembly and Loadout Facility for National Steel and Shipbuilding Company, San Diego California," dated July 20, 1983, prepared by Dames & Moore.

- "Geotechnical Investigation for the Proposed NASSCO Floating Dry Dock and Mooring Facility," dated January 17, 1983, prepared by Woodward-Clyde Consultants.

In addition, we reviewed the following studies prepared by our firm for nearby projects:

- "Geotechnical Investigation, Pier 4 Replacement Project, BAE Systems San Diego Ship Repair, San Diego, California," dated October 18, 2011.

  The Pier 4 Replacement investigation included a geophysical evaluation of the subsurface shear wave velocity profile, which consisted of performing a refraction microtremor (ReMi™) survey. The ReMi technique uses recorded surface waves (Rayleigh waves) that are contained as background noise to develop a shear wave velocity profile of the site. The geophysical data from that survey was considered during the investigation for the subject project.

- "Geotechnical Investigation, Pier 1 North, Large Dry Dock, BAE Systems San Diego Ship Repair, San Diego, California," dated November 7, 2014.

- "Final Geotechnical Investigation, Pier 1 North, Large Dry Dock, BAE Systems San Diego Ship Repair, San Diego, California," dated October 13, 2015, revised January 22, 2016.

- "Geotechnical Investigation, Chollas Creek Quaywall Replacement, Naval Base San Diego, San Diego, California" dated June, 2020.

A complete list of documents reviewed is provided in the References section at the end of this report.

3.2 **Subsurface Investigation**

Our field investigation consisted of advancing, sampling, and logging a total of seven offshore borings to assess the underlying soil characteristics in the project area. Test borings were advanced from a spud barge operated by R.E. Staite between May 12 and 19, 2020. The approximate locations of our test borings are shown on the Site Plan (Figures 2a and 2b).

Borings were drilled by Pacific Drilling of San Diego, California, using a Marl M10 drill rig with 6-inch hollow-stem augers. Borings were advanced to depths ranging from 31.5 feet (B-1a) to 91.5 feet (B-2) below the mudline, to a maximum ground elevation of -116.5 (B-1b) feet MLLW. Samples were obtained from the test borings using both a 2-inch O.D. Standard Penetration Test sampler and a 3-inch O.D. "California Sampler." The samplers were advanced by driving them into the soil at the bottom of the drill hole using a 140-pound hammer falling 30 inches. Samples obtained from the borings were sealed in the field to preserve in-situ moisture, and transported to the laboratory for additional inspection and testing. The drilling operations were observed, and borings logged and soils classified, by a registered geologist from TerraCosta. Field logs of the materials encountered in the test borings were prepared based on visual examination of the materials, and on the action of the drilling and sampling equipment. The descriptions on the logs are based on our field observations, sample inspection, and laboratory test results. A Key to Excavation Logs is presented in Appendix A as Figure A-1, and final logs of test borings are presented as Figures A-2 through A-5.

3.3 **Laboratory Testing**

Representative samples of the soils encountered and collected during our field investigation were tested in the laboratory to aid in our evaluation of their engineering characteristics. Laboratory testing included moisture/density relationships, grain size distribution, hydrometer, liquid and plastic limit, and shear strength. Laboratory test results were used in conjunction with the results of our field program and our experience with similar materials to evaluate the strength and compressibility characteristics of soils at the site. Laboratory test results are presented in Appendix B.

4 EXISTING SURFACE CONDITIONS AND GEOLOGIC SETTING

The subject study area includes the area immediately westerly of and within the vicinity of the existing NASSCO dry dock "Builder"; the open water area between Builder and east of the 780-foot-long Pier 12; the open water area northwest of Builder adjacent to the existing pile-supported timber wharf, and east of the crane rail extension bridge; and the general area east of Pier 12, and west of the approximately 700-foot-long concrete pile-supported Pier 4. The subject study area extends bayward approximately 650 feet from the revetted shoreline located between Piers 4 and 12, near the approximate location of Boring B-1. A steel sheet-pile bulkhead extends approximately 150 feet west of Pier 4, where it intersects with the aforementioned revetted shoreline. The segment of shoreline west of Pier 12 and east of the existing timber wharf is also revetted. Although no specific measurements were taken, the revetment slopes appear to generally be inclined at approximate slopes ranging from 1:1 to 1.5:1 (horizontal to vertical). The dredge slopes for the existing dry dock basin range from 2.5:1 to 4:1 (horizontal to vertical).

4.1 Site Development

The project site is located along the eastern edge of San Diego Bay. The site as it existed in 1857 is shown on Figure 3a. Over time, the eastern edge of the bay at the site was developed. Figures 3a through 3d show the progression of site development. As illustrated in Figures 3a to 3d, the site was developed by reclaiming land and by building out over the historic mudflats.

4.2 Geologic and Geomorphic Setting

The project site is located within the Peninsular Ranges Geomorphic Province. Easterly of the site lies the dissected San Diego coastal plain, which abuts the San Ysidro and Jamul Mountains. Carved out along the westerly margin of Otay Mesa (and the San Diego coastal plain) is a series of coastal terraces formed at various sea level still stands during Pleistocene time. Regional uplift, faulting, and erosion have modified these distinctive erosional features. Over the last million years, the San Diego region is estimated to have risen at an average rate of about 5.5 inches per 1,000 years (Abbott, 1999). In the last 80,000 years, the rate of uplift has increased to nearly 12 inches per 1,000 years northwest of the Rose Canyon

fault zone, and approximately 18 inches per 1,000 years southwest of the Rose Canyon fault zone.

Conversely, these tectonic forces have also caused down-dropping of the region within San Diego Bay. Following the Rose Canyon fault zone southerly, tectonic forces are spread across three major faults (and quite possibly other unidentified faults) that underlie San Diego Bay. These faults (the Silver Strand, Coronado, and Spanish Bight Faults) are believed to transfer tectonic forces to the Descanso Fault, which extends from offshore of Point Loma and continues southerly into Mexico. The right step that occurs between the Rose Canyon and the Descanso fault zones creates a releasing bend that causes the rocks underlying the bay to be stretched and down-dropped to accommodate the movement caused by these tectonic forces. Typical movements along the faults that underlie the bay are observed to experience a significant vertical or normal component to their movement.

From the standpoint of the overall geologic structure, San Diego Bay is a down-dropped faulted trough lying just west of a stable hinterland-coastal plain. Bedrock on the east side of the zone has been slightly deformed as opposed to that on the west side. Faults to the east (i.e., La Nacion-Sweetwater Faults) display down-to-the-west normal displacement. The Rose Canyon system exhibits right-slip (lateral) displacement and is believed to represent a portion of the motion between the North American and Pacific Tectonic Plates. The normal faults that parallel the margins of the bay are likely a result of stretching, subsidence, and compaction of the sedimentary deposits within the San Diego Embayment.

4.3 **Site Geology**

The local surface geology in the site vicinity is shown on Figures 4a and 4b. Figure 4a shows the current interpretation of surface geology, whereas Figure 4b shows a previous interpretation of surface geology. To further illustrate site geology and subsurface conditions, we developed two generalized geologic cross sections (Figures 5 and 6) that traverse the site (see Figures 2a and 2b). A general description of site geology is presented below.

As illustrated on Figures 4a and 4b, during the previous century, an approximately 750-foot to 1,000-foot-wide strip of artificial fill was placed adjacent to the bayshore, inclusive of the existing landward portion of the NASSCO Shipyard. The fill was most likely derived by a

combination of dredging of the harbor floor and locally derived fill soils. The thickness of the fill is estimated to be very thin at its distal eastern edge. Based upon review of the aforementioned previous studies, the thickness toward the bay end likely reaches approximately 8 to 12 feet adjacent to the revetted shoreline, existing timber wharf, and crane rail extension bridge. Underlying the fill are young Holocene-age unconsolidated bay sediments that are generally known to extend to an elevation of approximately -32 feet MLLW in the vicinity of Borings B-5, B-6 and B-7. As subsidence occurred in the bay, sediment was flushed out of the uplands and was slowly deposited over older Pleistocene-age sediments, leaving the terrace deposits (including both the older and younger quaternary deposits) that mantle the coastal terraces around San Diego Bay.

Overlying the San Diego Formation are Quaternary-age terrace deposits. These nearshore marine and non-marine deposits are generally composed of interbedded fine- to medium-grained, poorly to moderately consolidated silts, sands, and conglomerate. The sands vary from well to poorly sorted.

The Quaternary-age deposits were deposited on wave cut platforms (terraces) eroded into the Pliocene-age San Diego Formation. This old surface is estimated to extend offshore to a depth locally in excess of 150 feet below present sea level. Where exposed inland, the San Diego Formation consists of semi-consolidated fossiliferous fine-grained yellow-white/gray sandstone, with lenses of well rounded cobble conglomerate. Reportedly, as the San Diego Formation extends southerly to Mexico, it reaches at least an estimated thickness of 300 feet. Based on the shear wave velocity profile from the Pier 4 Replacement Project, we estimate that the top of the San Diego Formation is near elevation -150 feet, MLLW.

Based upon review of Woodward-Clyde's 1983 Geotechnical Investigation, we understand that the dredging of the basin for the current floating dry dock (Builder) resulted in an excavation bottom of approximately –55 feet (MLLW). Since that time, other minor dredging operations have also taken place within the vicinity of the NASSCO shipyard. Within the area that was dredged, recent bay deposits generally form a relatively thin (approximately 3 to 7-foot-thick) veneer covering the previously dredged surface of the bay floor.

4.4 **Stratigraphy (Soil Conditions)**

The materials encountered within the depths explored consist of recent bay deposits, younger Quaternary-aged terrace deposits, and older Quaternary-aged terrace deposits. These deposits are in turn underlain by the San Diego Formation at depth.

Generalized geologic cross sections of the stratigraphic conditions within the general project area are presented on Figures 5 and 6, with the locations of those sections indicated on Figures 2a and 2b.

More detailed descriptions of the soil units encountered, from oldest to youngest, are presented below.

San Diego Formation: Based upon our 2011 geophysical study for the Pier 4 Replacement Project, located approximately 500 feet northwest of Boring B-2, the top of the San Diego Formation in the area of the new floating dry dock is estimated to be near elevation -150 feet MLLW. The San Diego Formation typically consists of yellow-brown to gray-brown, fine- to medium-grained, poorly to moderately indurated sands and siltstones. The San Diego Formation is described in the literature as being late Pliocene to early Pleistocene in age, covering an area from the southerly flanks of Mount Soledad south to Rosarito Beach in Baja California, Mexico.

Older Quaternary Deposits: The older terrace deposits generally consist of olive-brown to gray-brown, dense to very dense silty sands, stiff to hard sandy silts, clayey silts, and silty clays of varying plasticity. These deposits are likely partially derived from the underlying San Diego Formation and were encountered at depths ranging from approximately -60 feet (Borings B-5 through B-7) to -85 feet (Boring B-1) MLLW.

Younger Quaternary Deposits: Younger quaternary-aged terrace deposits cover much of San Diego's coastline and generally include a series of middle to late Pleistocene-age paralic deposits derived from the local formational soils. Within the study area, these deposits generally consist of interbedded, medium dense, red-brown to olive-brown sands, silty fine sands, fine sandy to clayey silts, silty to fine grained sandy clays, and isolated layers of highly plastic clays. These deposits were generally encountered at depths ranging from approximately -37 feet (Borings B-1 and B-2) to -55 feet MLLW

(Borings B-3 and B-5). Variations in the depths at which the younger Quaternary deposits were encountered are due to the aforementioned dredging that took place associated with development of the shoreline and shipyard. Borings B-5, B-6, and B-7 were advanced within the previously dredged area near the existing timber wharf and encountered the younger terrace deposits near elevation -32 feet MLLW.

Bay Deposits: Bay deposits encountered during our recent investigation generally consist of loose to medium dense, gray, micaceous silty sand with occasional shell fragments, gravels, and soft clayey silt lenses. These bay deposits generally form a relatively thin (3- to 4-foot-thick) veneer covering the previously dredged surface of the bay floor. Outside the limits of dredging in the vicinity of Borings B-5, B-6, and B-7, these bay deposits extended to an approximate elevation of -32 feet MLLW.

4.5 **Groundwater**

We estimate that, due to tidal fluctuations, transient (landside) groundwater highs in the area may periodically reach a maximum of +8 feet MLLW (+7.89 feet NAVD88), particularly along the western margins of the landward improvements within the NASSCO Shipyard.

4.6 **Faulting and Seismicity**

From a seismic standpoint, the site is located within a seismically active region that has experienced earthquakes in recent historic time. The site is located approximately 1,800 feet south-southeast of the Silver Strand Fault, which is considered active, having demonstrated fault activity during the last 10,000 years. Studies for the Coronado Bay Bridge (Kennedy and Clarke, 1999), as well as other studies, have identified numerous faults under San Diego Bay (Figures 7 and 8). Many of these faults express a normal component (up/down) of movement that is related to the extensional forces that caused the opening of San Diego Bay.

4.6.1 *Faulting at the Site*

The project area is located along the easterly margins of San Diego Bay and east of the Silver Strand fault segment of the Rose Canyon fault system (Figures 7 and 8). Numerous secondary fault strands have also been identified within this part of the bay (Legg and Weld, 1980). According to the Quaternary Fault and Fold Database, the northern terminus of two

secondary fault segments of the Silver Strand Fault trend toward the area occupied by Pier 12.

5 GEOLOGIC HAZARDS

5.1 Introduction

Each project may be exposed to risks associated with various geologic hazards. Many of those hazards are associated with the actions of earthquakes and faulting, as well as other hazards that may impact the proposed project. A brief description of the various geologic hazards and their impact on the project site is presented below.

5.2 Geologic Hazards Associated with Earthquakes

Geologic hazards generally associated with earthquakes include ground rupture, ground shaking, tsunamis, seiches, seismic-induced flooding, liquefaction, seismic-induced ground settlement, and seismic-induced slope instability. With respect to these hazards, we have the following comments.

5.2.1 *Ground Rupture*

An assessment of the potential risk and magnitude of potential fault rupture is beyond the scope of this report. However, a review of USGS and CGS maps indicates that a number of small faults exist underlying San Diego Bay. These smaller faults are likely related to the opening of the San Diego Embayment Graben and are interpreted as being Potentially Active (Figure 7). No known active faults are mapped as passing or trending through the site.

In addition, the site is located approximately 0.55 miles from the closest A-P zone (Figure 8). As such, the risk associated with ground rupture is considered low.

5.2.2 *Ground Shaking*

Historically, a number of larger earthquakes with magnitudes greater than 4.0 have occurred near the site within and around San Diego Bay. The most recent earthquake with magnitude 4.0 occurred in June 1985, with the epicenter located approximately 0.9 mile south of the site

on the Silver Strand Fault. The closest and largest historically documented earthquake is reported to have occurred approximately 3.2 miles from the site. That earthquake, reported to have occurred on May 27, 1862, had an interpreted magnitude of 5.9. Using the computer program EQSEARCH, which contains a database of historical earthquakes from 1800 to 2007, and a Soil Class D, we estimate the likely historic peak ground acceleration at the site to have been on the order of 0.33g. As such, the risk associated with ground shaking is considered very high.

5.2.3 *Tsunamis and Seiches*

Tsunamis and seiches are considered likely hazards at this project site. A review of the Tsunami Inundation Map for Emergency Planning for San Diego Bay, dated June 1, 2009, shows the site as lying within a tsunami inundation area (Figures 9a through 9c).

Recently, San Diego Bay experienced the effects of two tsunamis generated by large, distant earthquakes (the 2010 M8.8 Chilean earthquake and the 2011 M9.0 Japan earthquake). Measurements and observations indicated that areas around the bay experienced tsunami amplitudes on average of 2 feet (0.6 meter), with a maximum of approximately 3.9 feet (1.2 meters) observed at Shelter Island. Docks and boats in the bay experienced moderate damage caused by the unusually high current speeds within some of the basins associated with the water surface changes, estimated locally to be upwards of 12 to 15 knots. As such, the risk associated with tsunamis and seiches is considered high.

5.2.4 *Liquefaction*

Three key components are required for liquefaction to occur: liquefaction-susceptible soils, groundwater, and strong ground shaking. Soils susceptible to liquefaction are generally loose to medium dense sands and non-plastic silt deposits located below the water table. Some of the soil within the recent bay deposits and bay deposits are comprised of saturated loose to medium dense sands, non-plastic silts, and loose bay deposits. These soils are potentially liquefiable. However, the soils comprising the younger and older terrace deposits are not considered liquefiable.

5.2.5 *Lateral Spreading*

Lateral spreading is likely to occur within the recent bay deposits, the bay deposits, and some fill soils that surround the bay.

5.2.6 *Seismic-Induced Slope Instability*

Slopes comprised of recent bay deposits and bay deposits, some fill soils containing loose sands and soft clays may be subject to seismic-induced slope instability.

5.2.7 *Landslides*

A review of aerial photographs, published reports and geologic maps, and our site reconnaissance did not reveal any features indicative of ancient natural landslides on or adjacent to the proposed project site limits. In our opinion, the risk associated with landslides at the site is negligible.

6 RECOMMENDATIONS

6.1 Introduction

The methodology for the assessment of the axial pile capacities consisted of the following:

- Reviewed two Woodward-Clyde reports (January 1983 and April 1983) and their pile capacity relationships for specified tip elevations. These two reports provided different capacity curves for similar environments.

- Reviewed our reports and pile capacity assessments, and the results of our pile driving analyses (PDA) of indicator piles (TerraCosta, 2013).

- Developed a single stratigraphic subsurface model for our analyses from our subsurface exploration. We compared this model to the previous Woodward-Clyde reports and our report, and found general agreement in the general stratigraphic conditions at the site.

- Given the interbedded nature of the site conditions, we developed multiple subsurface strength models to explore the variability of estimated ultimate pile capacities. These models considered a sand model, a clay model, and an interbedded sand clay model. The pile analyses were carried out using the computer program APILE. While the sand and clay models do not necessarily reflect the interbedded nature of the site, the homogenous models did capture the trends in pile capacities indicated by the interbedded model. The difficulty of the interbedded model is that the vertical variation of the interbedded layers of the sands and clays varied across the site and, as such, using a more homogeneous model allows one to assess the upper and lower bounds of the results.

- Based on comparisons between these various strength models, we then compared the results to the Woodward-Clyde capacity relationships, TerraCosta's capacity relationships, and the PDA results. As such, based on our assessment of the pile capacity curves using our stratigraphic model and the sand model strengths, with limits on skin friction and end-bearing that we developed for this project, we then developed the pile capacity curves presented below.

6.2 16-inch Square PC Pile Capacity Curves

Figure 10 provides estimates of the ultimate axial compression capacities of a 16-inch square precast concrete pile in kips for sea bed elevations of 0.0 feet, -5.0 feet, -10.0 feet, -15 feet, -20 feet, and -25.0 feet MLLW with pile tip elevations from -20 feet to -90 feet.

Figure 11 provides ultimate uplift capacities of a 16-inch square precast concrete pile for sea bed elevations of 0.0 feet, -5.0 feet, -10.0 feet, -15 feet, -20 feet, and -25 feet (MLLW) with pile tip elevations from -20 feet to -90 feet in kips. The curves do not include the weight of the pile in the uplift capacity estimate.

6.3 18-inch Square PC Pile Capacity Curves

Figure 12 provides estimated ultimate axial compression capacities of an 18-inch square precast concrete pile for sea bed elevations of 0.0 feet, -5.0 feet, -10.0 feet, -15 feet, -20 feet, and -25.0 feet (MLLW) with pile tip elevations from -20 feet to -90 feet in kips.

Figure 13 provides estimated ultimate axial pile capacities of an 18-inch square precast concrete pile for sea bed elevations of 0.0 feet, -5.0 feet, -10.0 feet, -15 feet, -20 feet, and -25 feet (MLLW) with pile tip elevations from -20 feet to -90 feet in kips. The weight of the pile is not included in the uplift capacity estimate.

6.4 **24-inch Octagonal PC Pile Capacity Curves**

Figure 14 provides estimated ultimate axial compression for a 24-inch octagonal precast concrete pile for sea bed elevations of -20 feet, -30 feet, -40 feet, and -50 feet (MLLW) with pile tip elevations from -50 feet to -110 feet in increments of 10 feet. The curves provide the ultimate compression capacity in kips.

Figure 15 provides ultimate uplift capacities for a 24-inch octagonal precast concrete pile for sea bed elevations of -20 feet, -30 feet, -40 feet, and -50 feet (MLLW) with pile tip elevations from -50 feet to -110 feet. The curves provide the ultimate uplift (tension) capacity in kips. The ultimate uplift capacities do not include the weight of the pile.

6.5 **Other Pile Recommendations**

Piles located greater than three pile diameters apart have no reduction in uplift or axial pile capacities.

Piles may be installed by jetting to within 10 feet of final tip elevations, then driven.

The site contains interbedded clay layers. As such, we recommend that piles installed by jetting to within 10 feet of the final tip elevation, then driven. The estimated ultimate pile capacity should be reduced by 10 percent.

6.6 **Lateral Load Capacity for Vertical Piles**

Estimated ultimate lateral load capacities for the vertical piles are presented in Table 1.

6.7 **Dredged Slope Stability**

We recommend that slopes dredged between elevations 0 and -15 feet MLLW have a maximum inclination of 1 unit vertical to 5 units horizontal.

We recommend that slopes dredged between elevations -15 and -25 feet MLLW have a maximum inclination of 1 unit vertical to 4 units horizontal.

We recommend that slopes dredged between elevations -25 and -55 feet MLLW have a maximum inclination of 1 unit vertical to 3 units horizontal.

6.8 **Response Spectra Design Input**

California Building Code response spectra for the Maximum Considered Earthquake and for the Design Earthquake are presented in Table 2.

6.9 **Sheet-Pile Bulkhead Adjacent to New Concrete Wharf**

A new sheet-pile bulkhead is to be constructed along the northerly limits of the proposed concrete wharf that will replace the existing timber wharf. This sheet-pile bulkhead is to be restrained by a series of both batter and vertical concrete piles. We understand that the sheet-pile bulkhead will be backfilled with gravel below elevation +3 feet (MLLW) and with compacted granular material above elevation +3 feet MLLW.

Given the proposed backfill materials, we recommend the following lateral pressures for design:

- For that portion of the wall backfilled with gravel, we recommend an equivalent fluid pressure of 45 pcf above the water table and 23 pcf for a restrained wall condition; and for an active wall condition, an equivalent fluid pressure of 28 pcf above the water table and 14 pcf below the water table. These pressures do not include hydrostatic pressures due to water.

- For that portion of the wall backfilled with compacted granular material, we recommend an equivalent fluid pressure of 60 pcf above the water table and 30 pcf for a restrained wall condition; and for an active wall condition, an equivalent fluid pressure of 38 pcf above the water table and 19 pcf below the water table. These pressures do not include hydrostatic pressures due to water.

- For surcharge loadings for an area wide load of 240 psf, we recommend a uniform pressure of 120 psf for a restrained wall condition and 72 psf for an active wall condition.
- For design purposes, we recommend using a maximum tidal lag of 3 feet.
- For soils that front the toe of the proposed sheet-pile bulkhead, we recommend the following:
    - From elevation -10 to -18 feet MLLW, the total unit weight of soil is 100 pcf and the soil has an undrained strength of 100 psf. For drained conditions, the soil has an effective angle of friction of 22 degrees.
    - From elevation -18 to -32 feet MLLW, the total unit weight of soil is 110 pcf and the soil has an effective angle of friction of 28 degrees.
    - From elevation -32 feet MLLW and below, the soil has a total unit weight of 125 pcf and an undrained strength of 3,000 psf. For drained conditions, the soil has an effective friction angle of 35 degrees.

7 LIMITATIONS

Professional judgments presented herein are based partly on our evaluation of the technical information gathered, partly on our understanding of the proposed construction, and partly on our general experience in the geotechnical field. We have observed only a small portion of the pertinent soil and subsurface conditions at the proposed project site. The recommendations made herein are based on the assumption that soil conditions do not deviate appreciably from those found during our field investigation. If the plans for site development are changed, or if variations or undesirable geotechnical conditions are encountered during construction, the geotechnical engineer should be consulted for further recommendations.

This firm does not practice or consult in the field of safety engineering. We do not direct the contractor's operations, and we cannot be responsible for the safety of other than our own personnel on the site; therefore, the safety of others is the responsibility of the contractor. The contractor should notify the owner if he considers any of the recommended actions presented herein to be unsafe.

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TABLE 1

ULTIMATE LATERAL LOAD CAPACITY OF PILES[(1)], KIPS
FREE HEAD CONDITION[(2)]

Mud Elevation (feet, MLLW)	16-inch Square	18-inch Square	24-inch Octagonal
0	10.2	12.6	NA
-5	8	9.8	NA
-10	6.4	8.0	NA
-15	5.4	6.7	NA
-20	4.7	5.7	NA
-25	4.1	5.2	12.2
-30	NA	NA	11.0
-35	NA	NA	10.0
-40	NA	NA	9.1
-45	NA	NA	8.4
-50	NA	NA	7.7
-55	NA	NA	7.2

Notes:

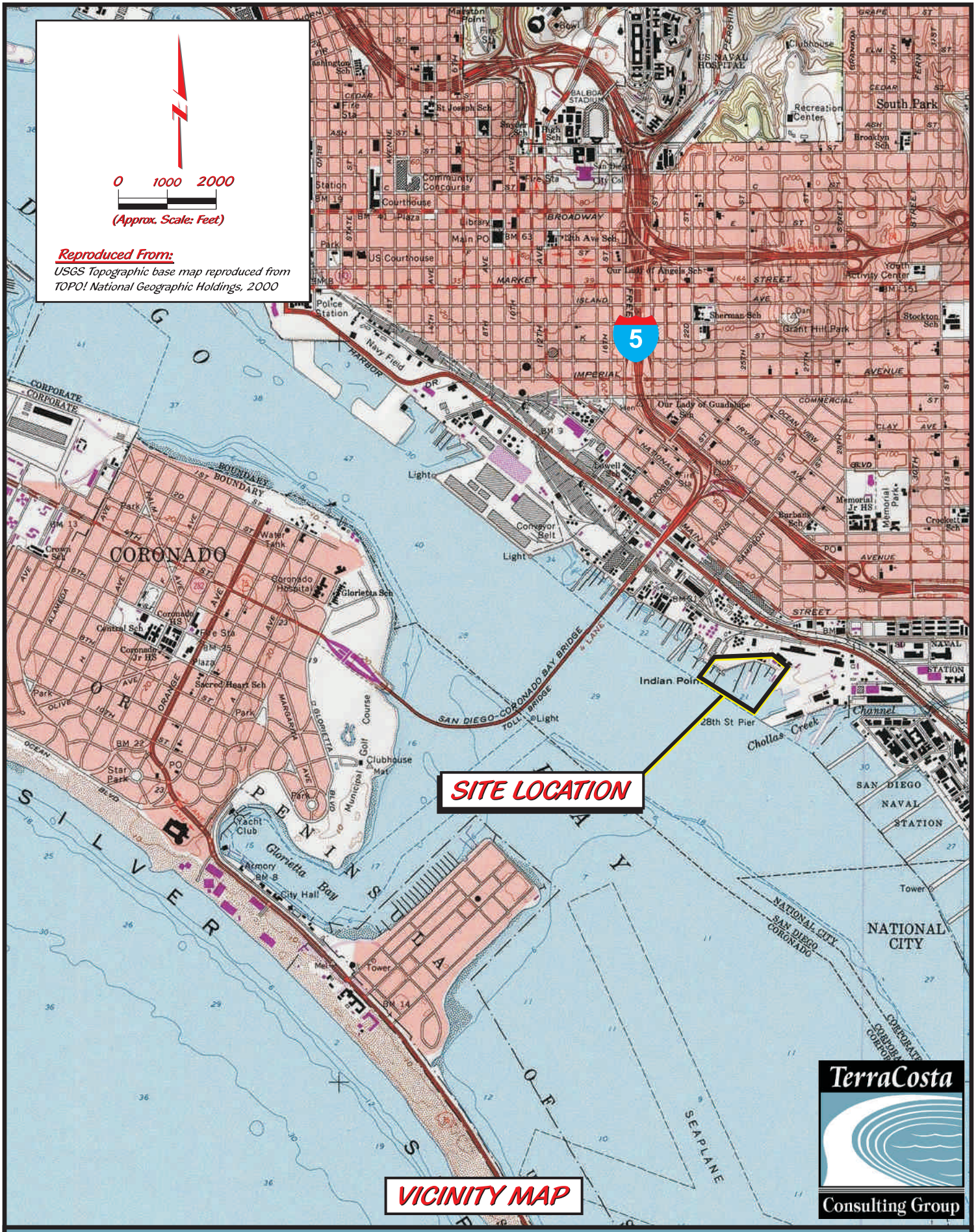
1. Lateral load capacities are based on an ultimate moment capacity of 160 kip-ft, 200 kip-ft, and 550 kip-ft for the 16–inch, 18-inch, and 24-inch piles, respectively.

2. For the fixed head condition, multiply the ultimate lateral capacity by 1.3 for the 16-inch and 18-inch piles, and by 1.6 for the 24-inch pile.

TABLE 2

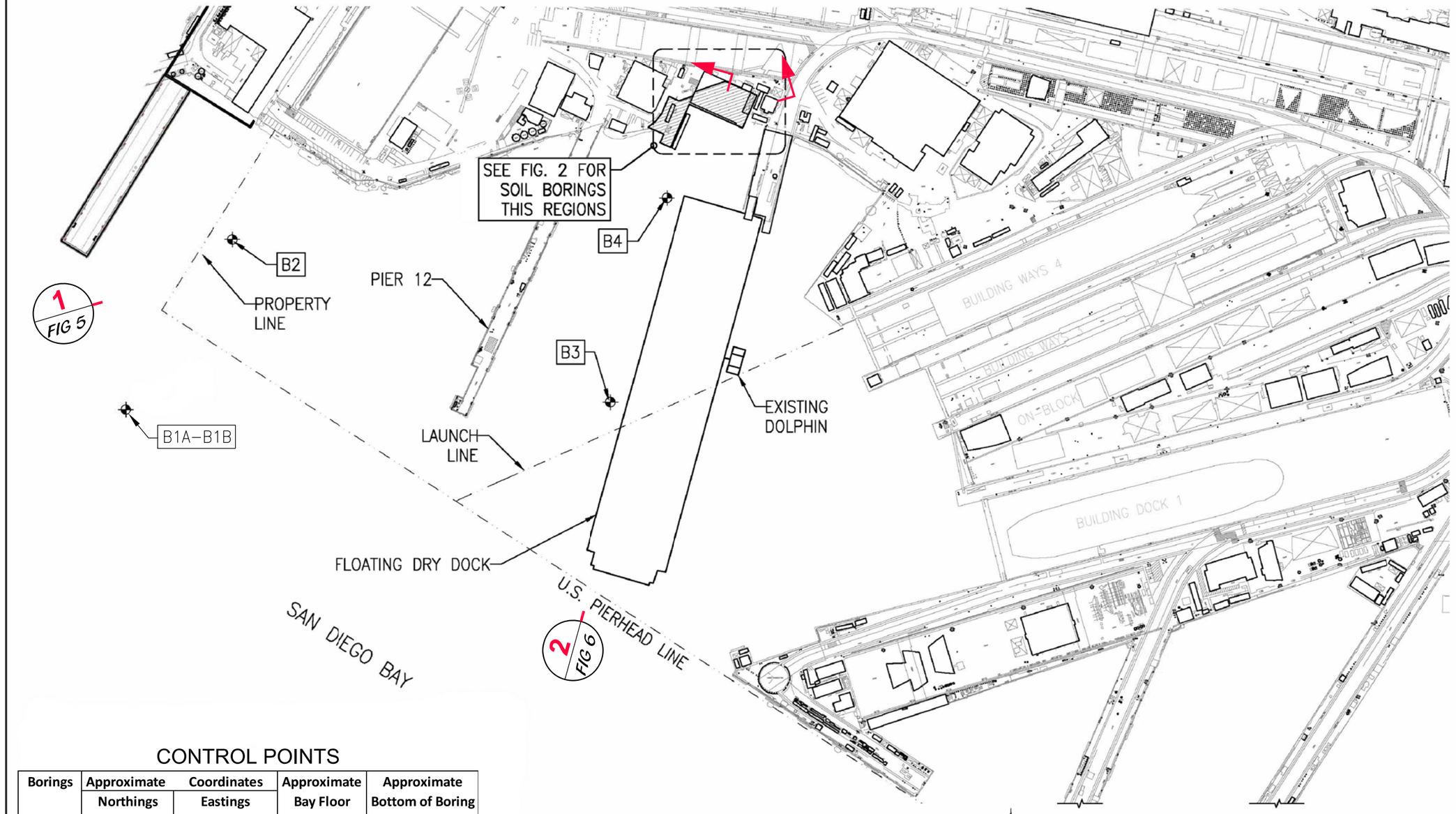
RECOMMENDED RESPONSE SPECTRA

Period (seconds)	10% in 50 years Spectral Acceleration (g)	50% in 50 years Spectral Acceleration (g)
0.000	0.295	0.077
0.05	0.353	0.088
0.10	0.502	0.124
0.15	0.607	0.156
0.20	0.642	0.176
0.25	0.665	0.187
0.30	0.671	0.190
0.35	0.650	0.182
0.4	0.612	0.170
0.45	0.578	0.160
0.5	0.549	0.151
0.6	0.490	0.134
0.8	0.411	0.111
1.0	0.351	0.093
1.50	0.262	0.065
2.0	0.200	0.046
3.0	0.132	0.028
4.0	0.096	0.020
5.0	0.078	0.015



TerraCosta Consulting Group

Project Name: NASSCO Floating Dry Dock | Project No. 3109 | Figure 1



CONTROL POINTS

Borings	Approximate Coordinates		Approximate Bay Floor Elevation	Approximate Bottom of Boring Elevation
	Northings	Eastings		
B1A	6286709	1831516	-33.6	-65.1
B1B	6286676	1831540	-33.6	-116.6
B2	6286930	1831874	-25.1	-116.6
B3	6287731	1831535	-45.0	-110.5
B4	6287863	1831956	-51.7	-116.2

PROPOSED DOLPHIN LOCATIONS

OVERALL SITE PLAN

DATE: 01/16/20

JOB NO. 20-2750

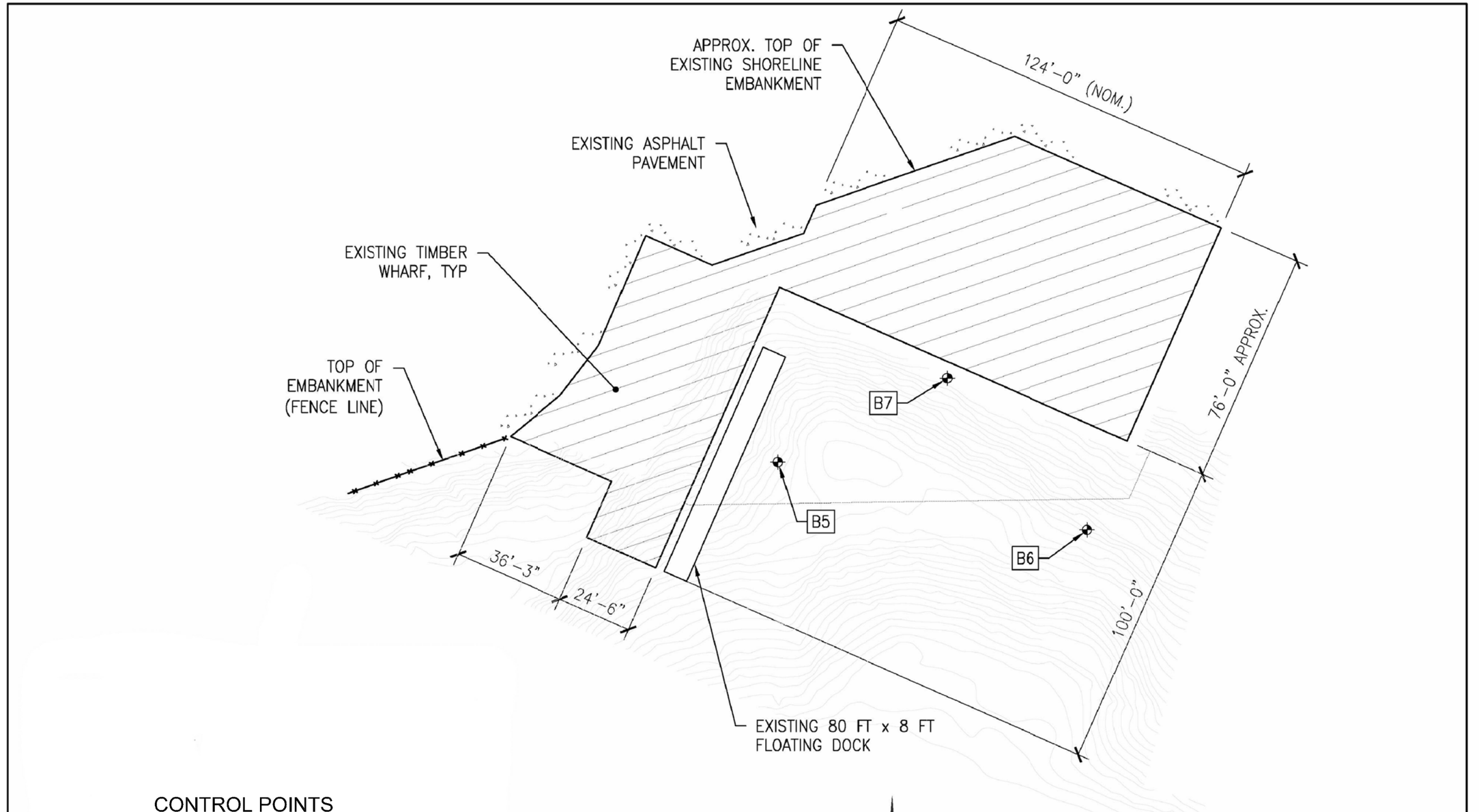
TRITON ENGINEERS, INC.
2400 Kettner Blvd, Suite 237
San Diego, CA 92101 USA
ph: 619.231.1250

GENERAL DYNAMICS NASSCO
NEW FLOATING DRY DOCK PROJECT

SOIL BORINGS

FIG. NO. 1

TerraCosta Consulting Group



CONTROL POINTS

Borings	Approximate Coordinates		Approximate Bay Floor Elevation	Approximate Bottom of Boring Elevation
	Northings	Eastings		
B5	6287905	1832107	-15.0	-70.0
B6	6288006	1832081	-21.5	-72.0
B7	6287960	1832131	-96.0	-71.0

AREA OF TIMBER WHARF

TIMBER WHARF SITE PLAN

TerraCosta Consulting Group

DATE: 01/16/20

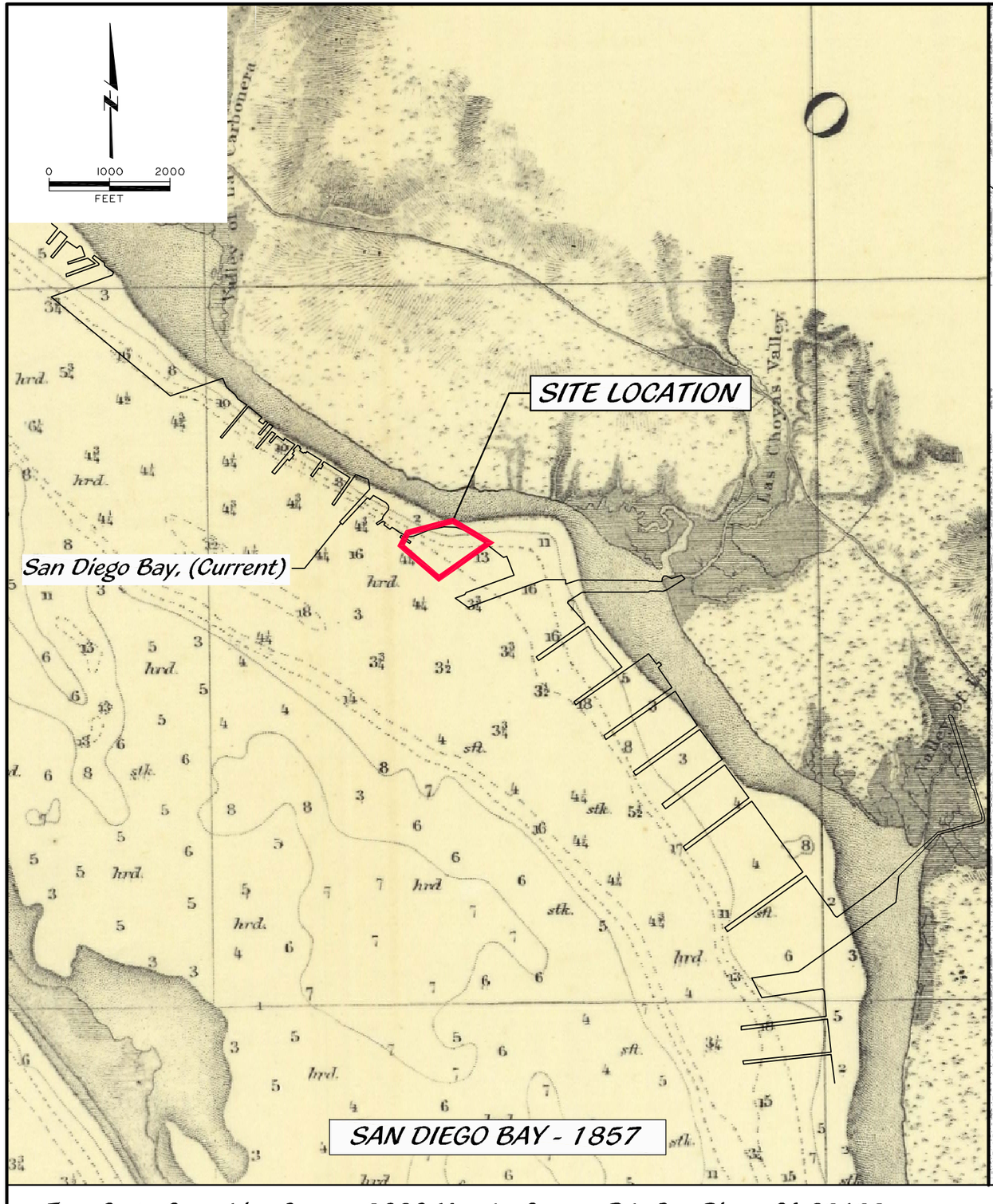
JOB NO. 20-2750

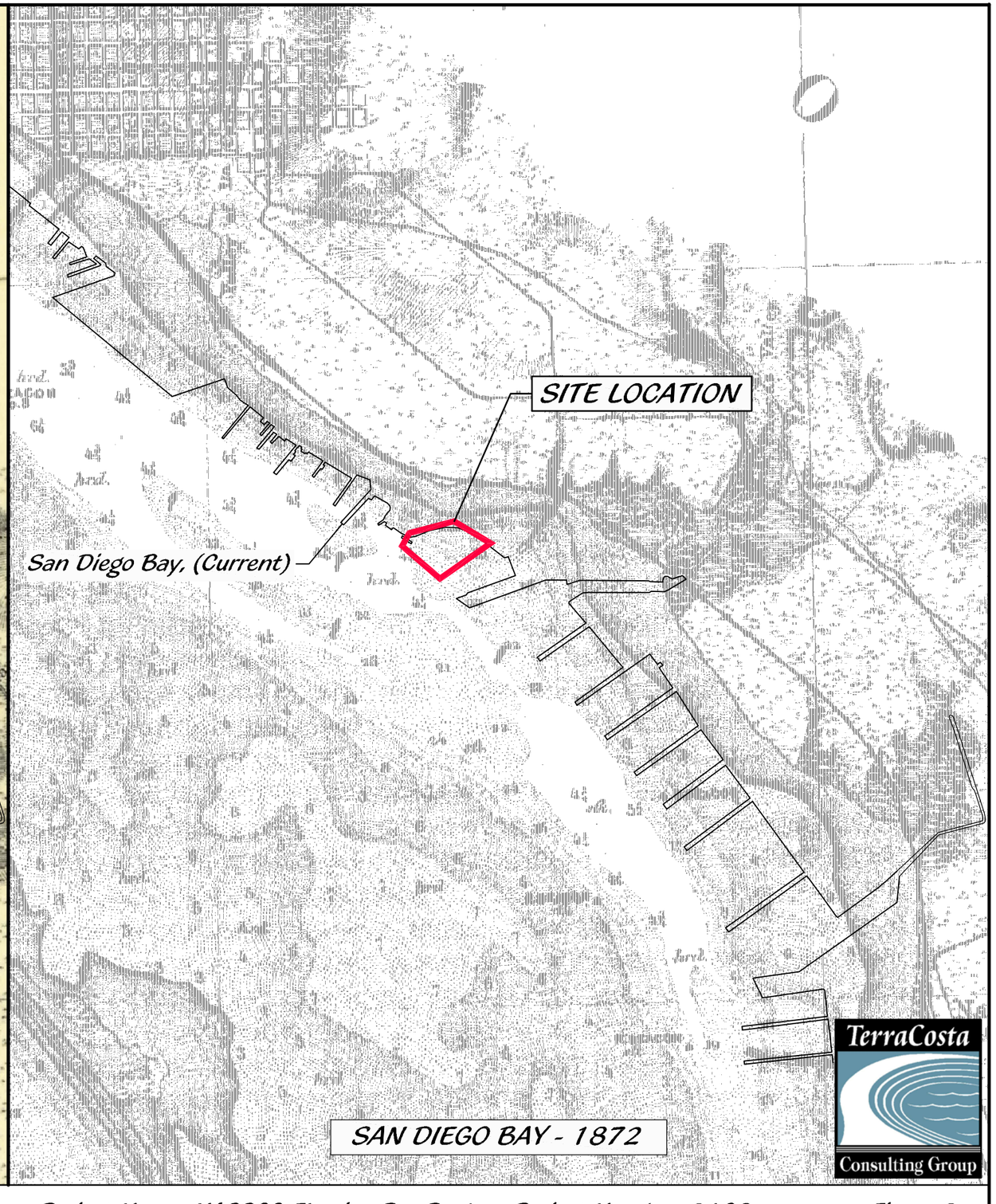
TRITON ENGINEERS, INC.
2400 Kettner Blvd, Suite 237
San Diego, CA 92101 USA
ph: 619.231.1250

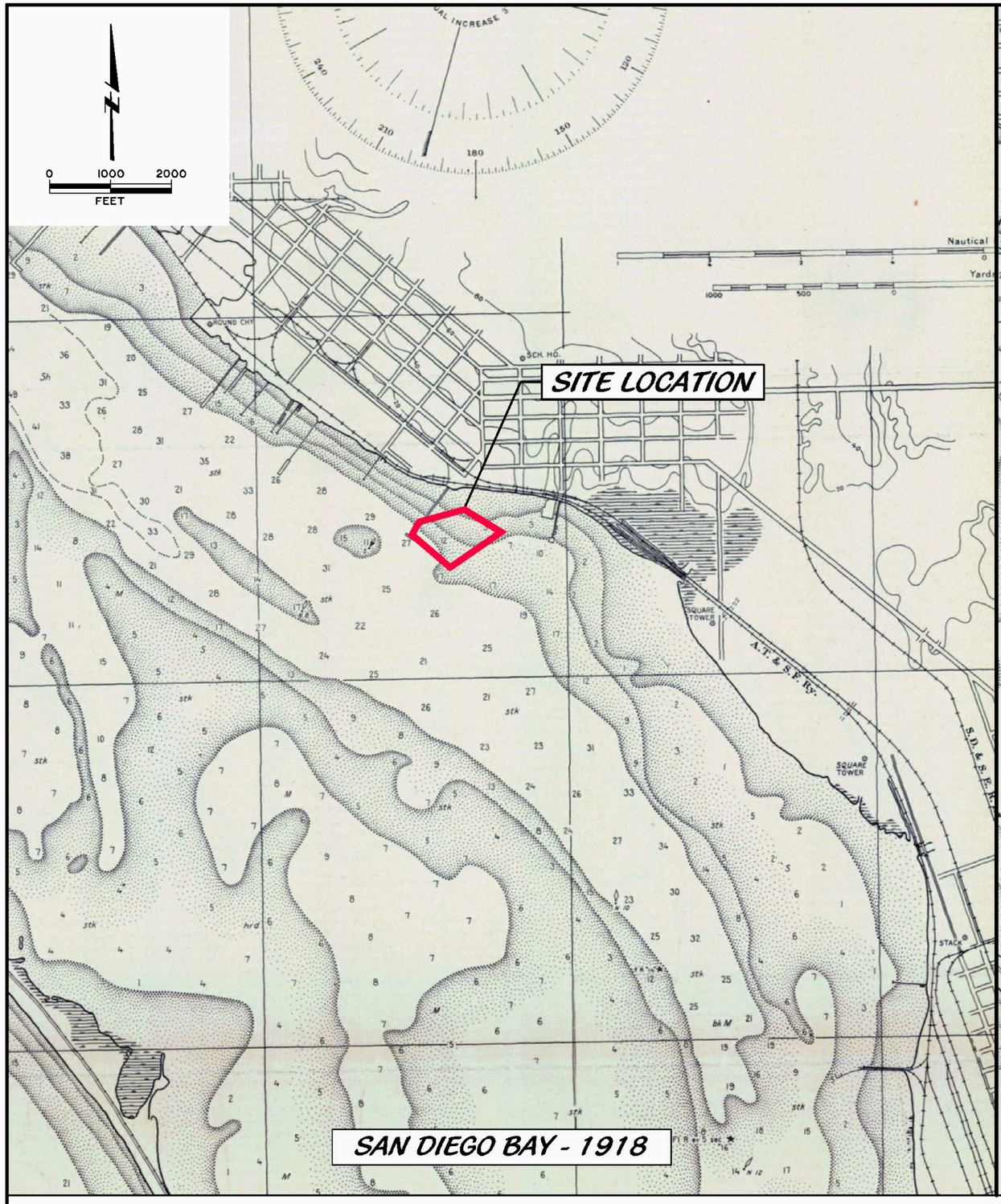
GENERAL DYNAMICS NASSCO
NEW FLOATING DRY DOCK PROJECT

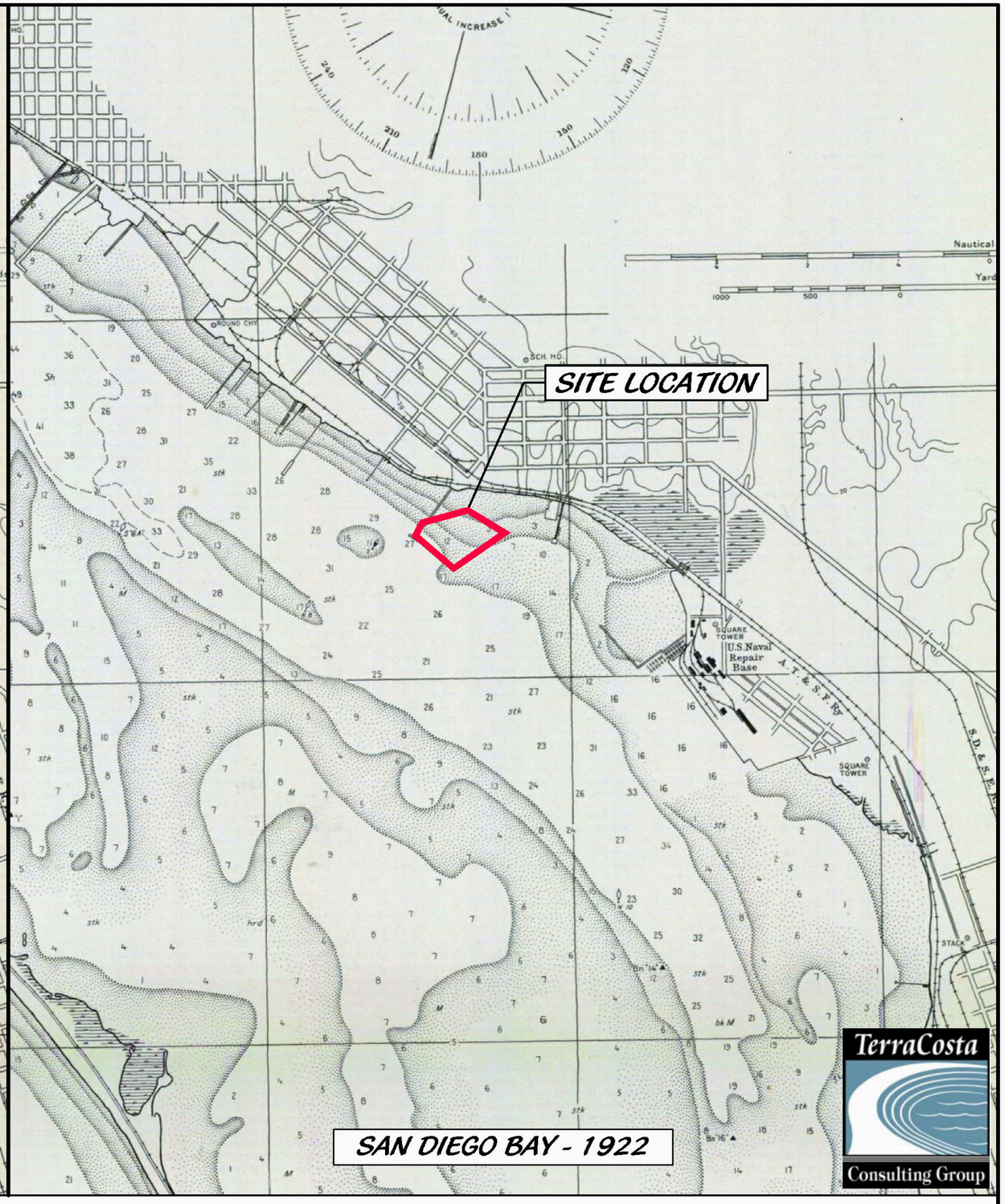
SOIL BORINGS

FIG. NO. 2

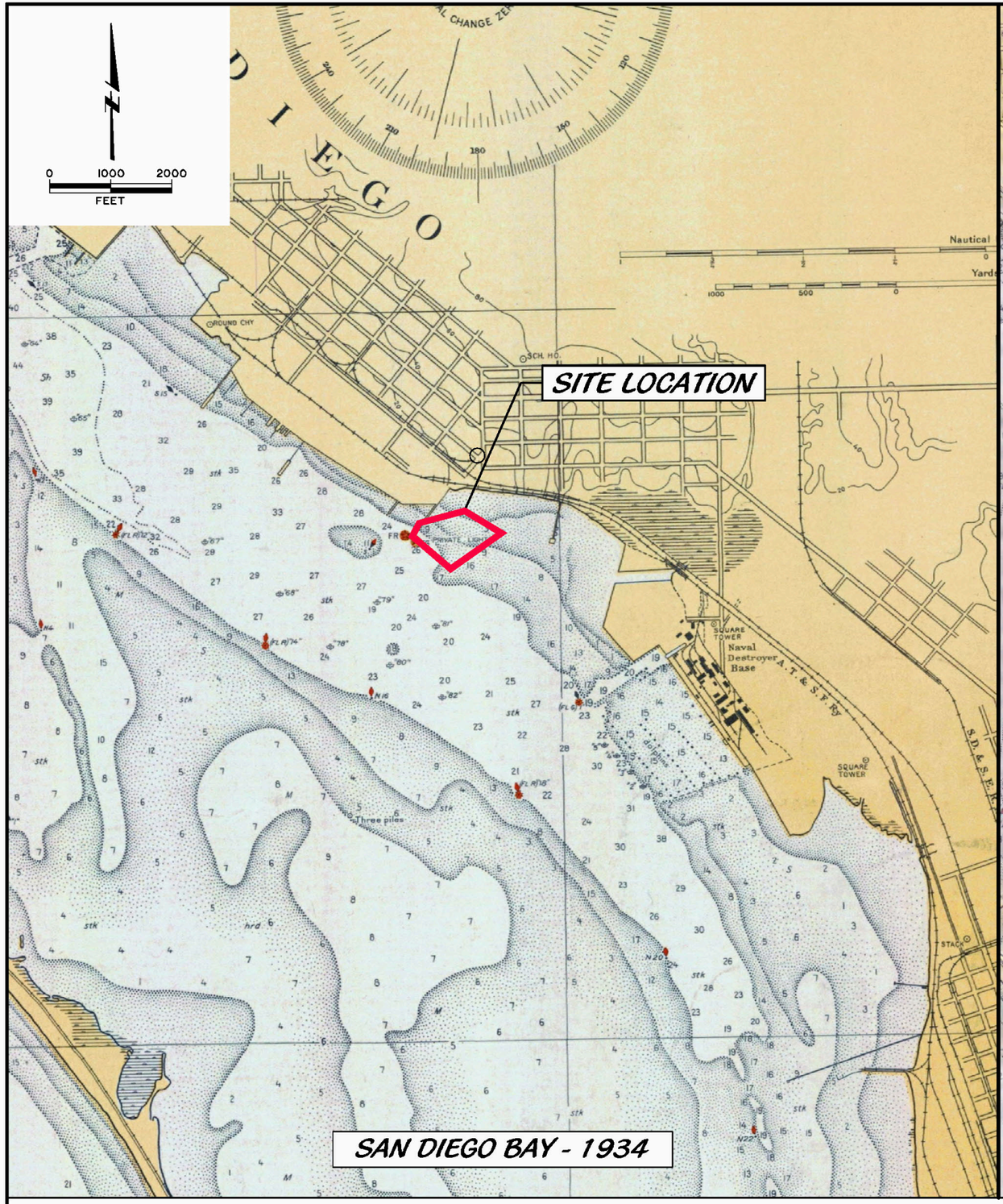

0
1000
2000
FEET
SITE LOCATION
San Diego Bay, (Current)
Las Chorras Valley
SAN DIEGO BAY - 1857

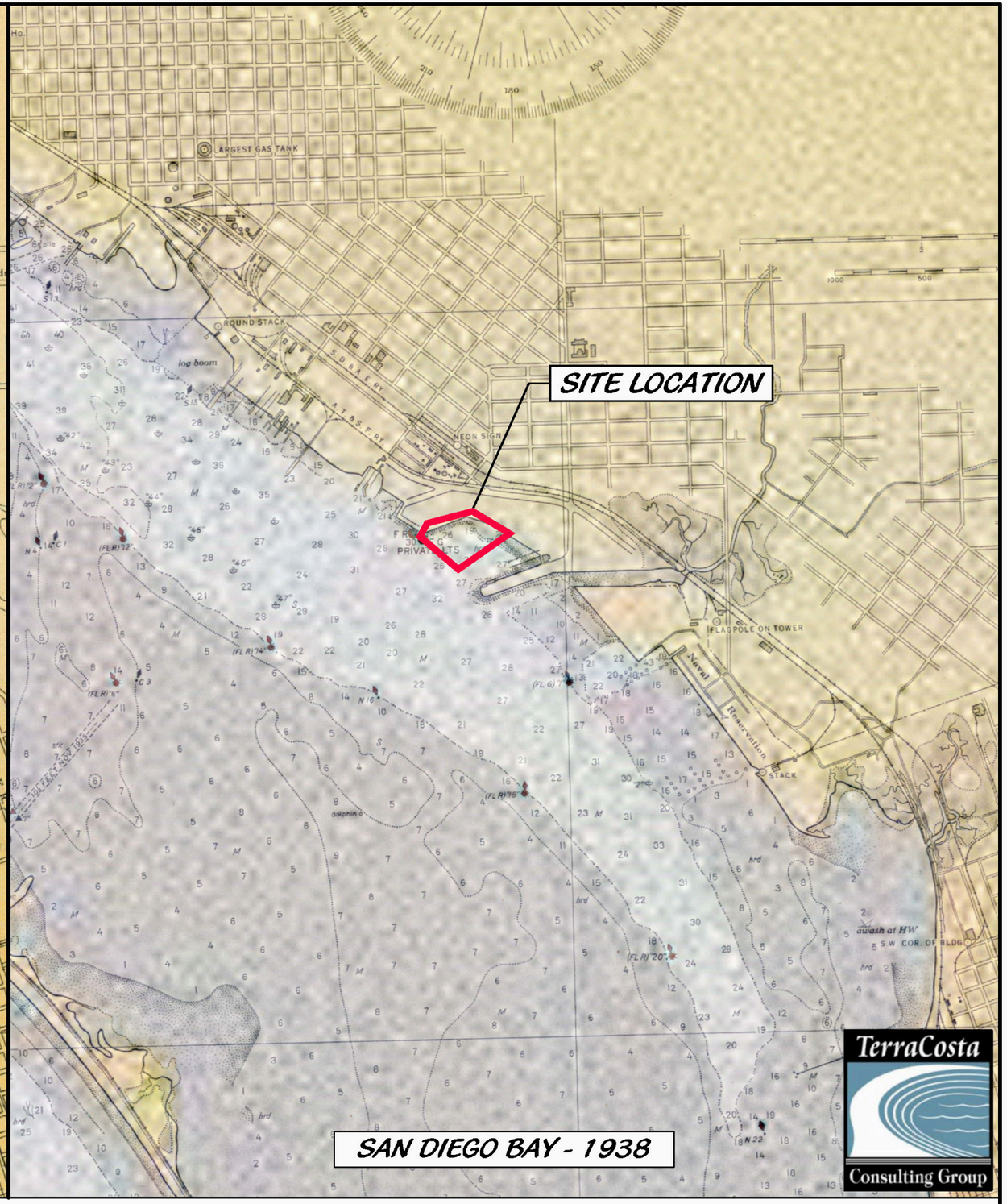

SITE LOCATION
San Diego Bay, (Current)
SAN DIEGO BAY - 1872
TerraCosta
Consulting Group

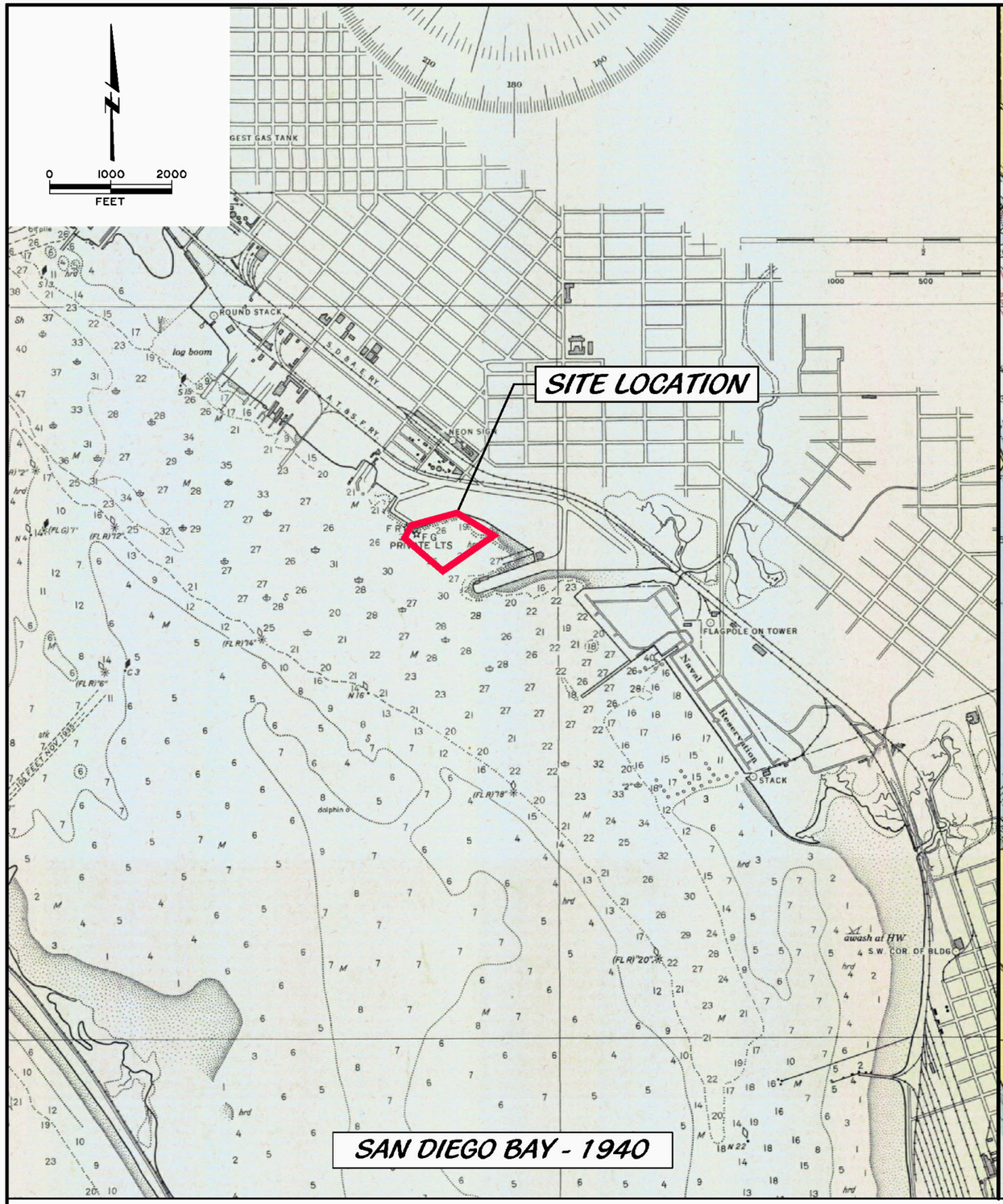


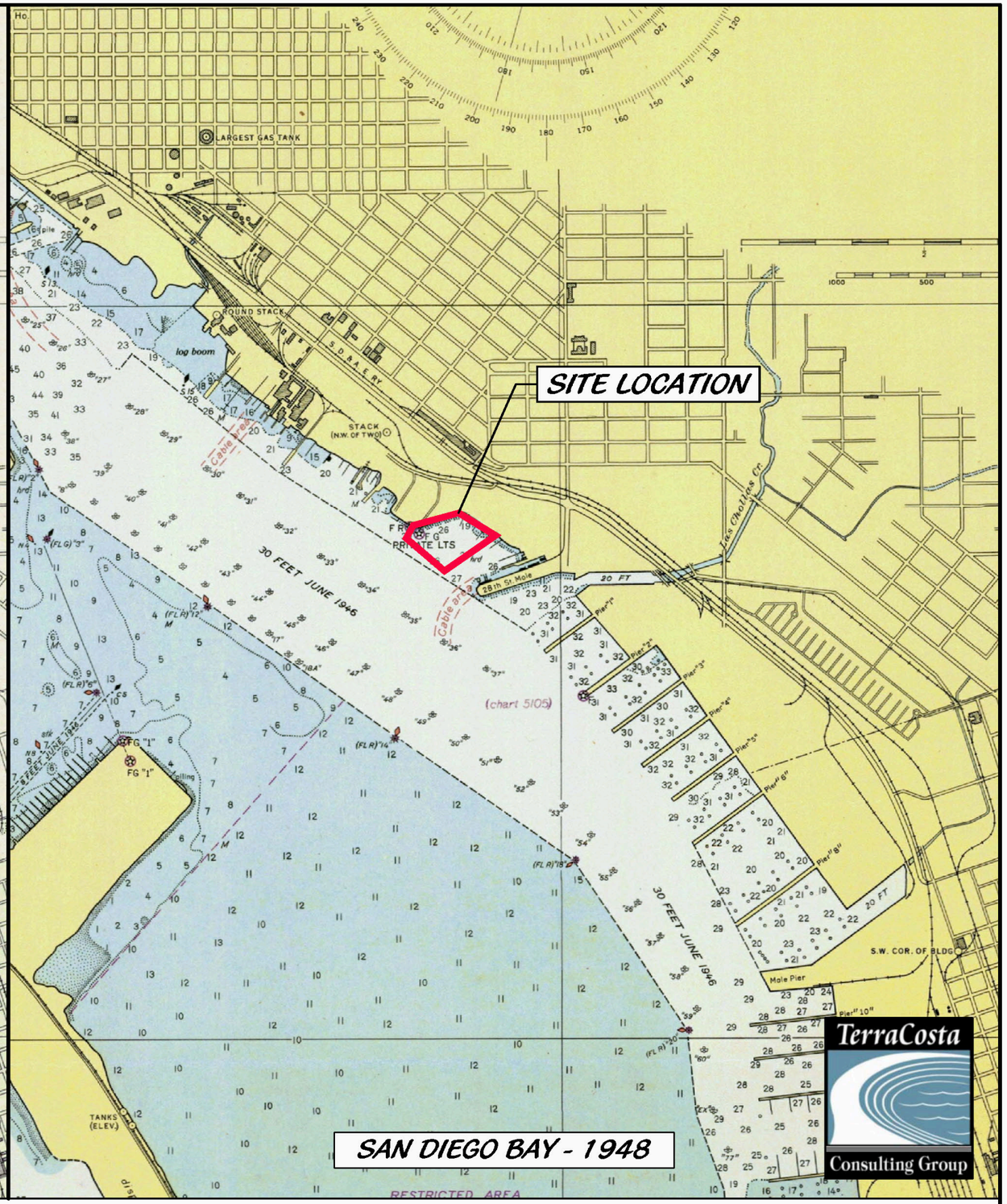


TerraCosta Consulting Group - 3890 Murphy Canyon Rd., San Diego, CA 92123 • Project Name: NASSCO Floating Dry Dock - Project Number: 3109 • Figure 3b


N
0
1000
2000
FEET
SITE LOCATION
SAN DIEGO BAY - 1934
Nautical
Yards
SQUARE TOWER
Naval Destroyer Base
A.T. & S.F. Ry
S.D. & S.E. Ry
ROUND CHY
SCH. HO.
Three piles
STACK


SITE LOCATION
SAN DIEGO BAY - 1938
LARGEST GAS TANK
ROUND STACK
log boom
NEON SIGN
A.T. & S.F. Ry
S.D.S.F. Ry
FLAGPOLE ON TOWER
Naval Reservation
STACK
awash at HW
SW COR OF BLDG
TerraCosta
Consulting Group





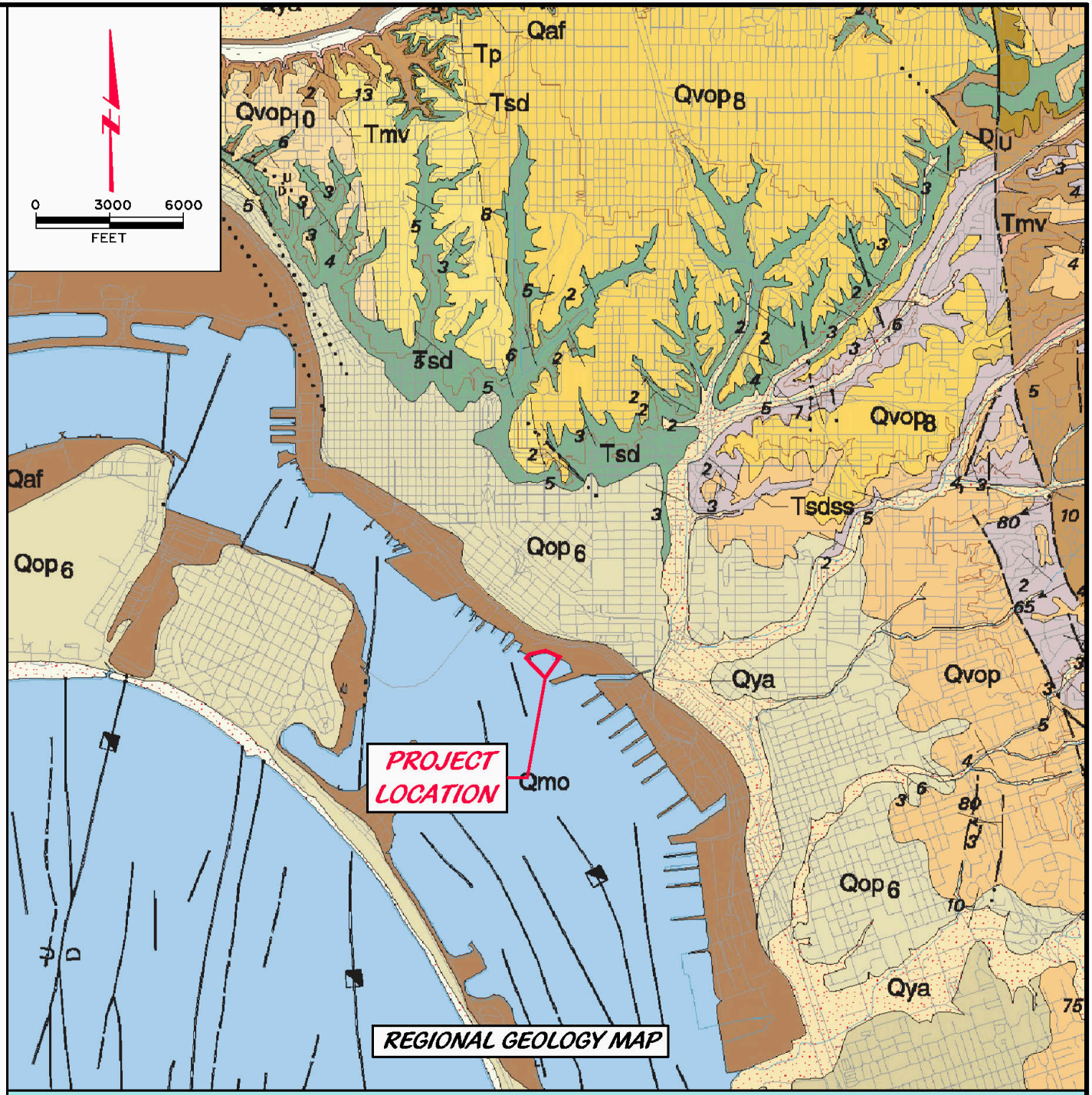
TerraCosta Consulting Group - 3890 Murphy Canyon Rd., San Diego, CA 92123 • Project Name: NASSCO Floating Dry Dock - Project Number: 3109 • Figure 3d

REFERENCE:

Reproduced from: "Geologic Map of the San Diego 30' x 60' Quadrangle, California," compiled by M.P. Kennedy & Siang S. Tan, dated 2005 (digital map)

LEGEND:

Qaf	Artificial Fill
Qmo	Marine Deposits
Qya	Young Alluvial Deposits
Qop6	Old Paralic Deposits
Qvop	Very Old Paralic Deposits
Tsd	San Diego Formation
Tp	Pomerado Conglomerate
Tmv	Mission Valley Formation
Kcs	Cabrillo Formation
Kuo	Undivided Rocks of the Rosario Group



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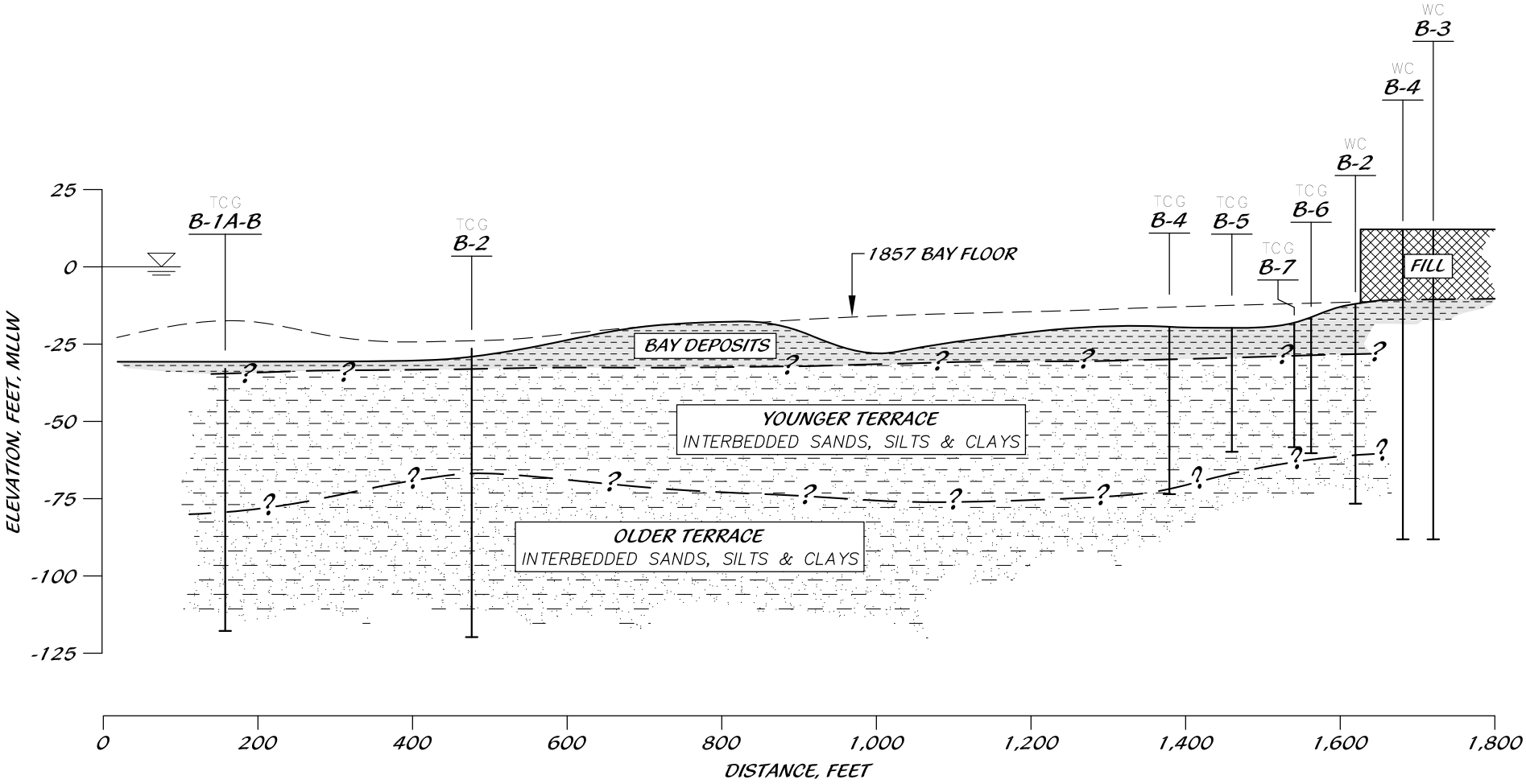
Project: NASSCO Floating Dry Dock • Project No.: 3109 • Figure 4a

Project Name: NASSCO Floating Dry Dock | Project No. 3109 | Figure 4b



CROSS SECTION 1

SCALE: 1"=200' HORIZ., 1"=50' VERT. -

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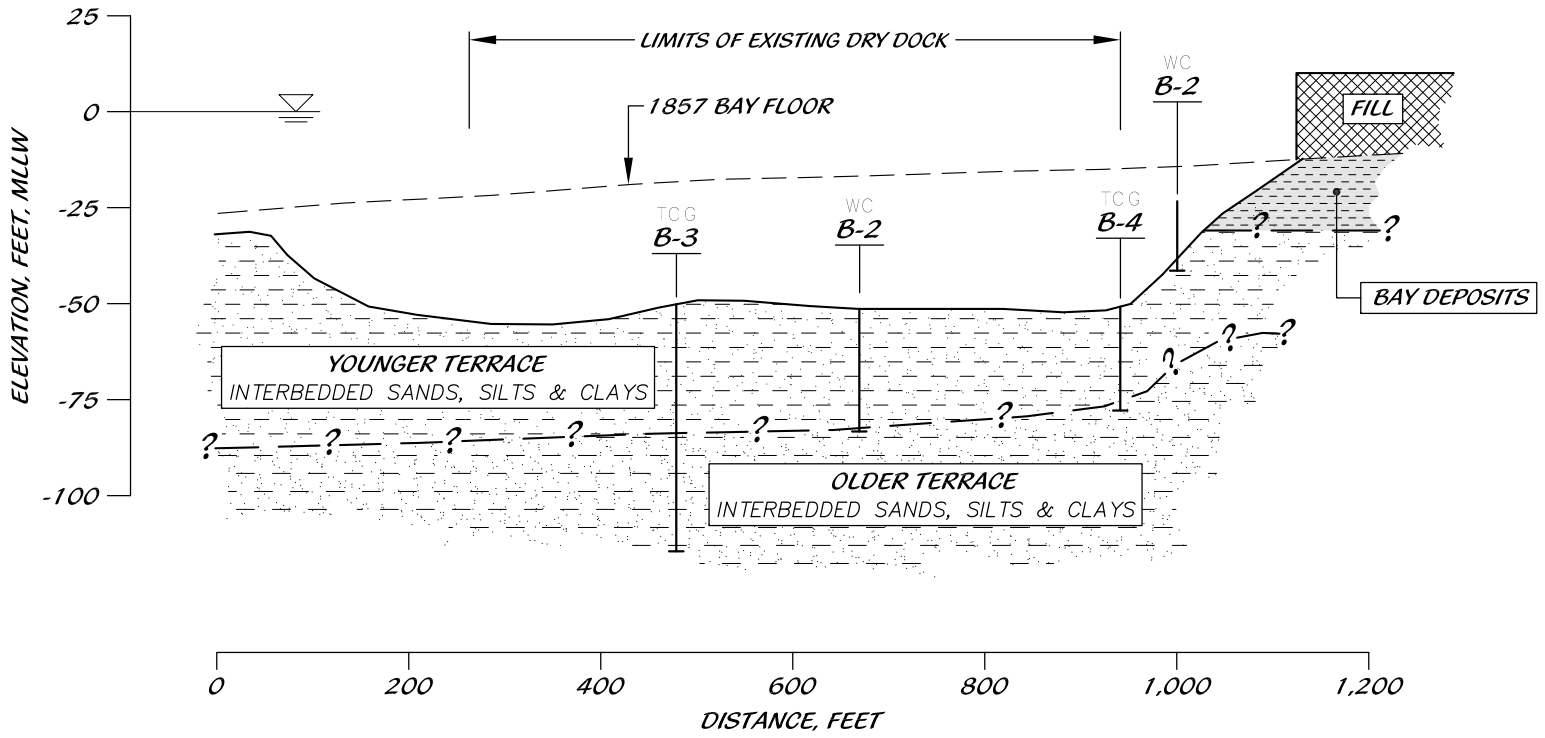
FIGURE NUMBER 5

PROJECT NAME
NASSCO FLOATING
DRY DOCK

PROJECT NUMBER 3109

CROSS SECTION



CROSS SECTION 2

SCALE: 1"=200' HORIZ., 1"=50' VERT. -

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FIGURE NUMBER
6

PROJECT NAME
NASSCO FLOATING DRY DOCK

PROJECT NUMBER
3109

CROSS SECTION

LEGEND

FAULT - HOLOCENE/LATEST PLEISTOCENE

FAULT - LATE QUATERNARY

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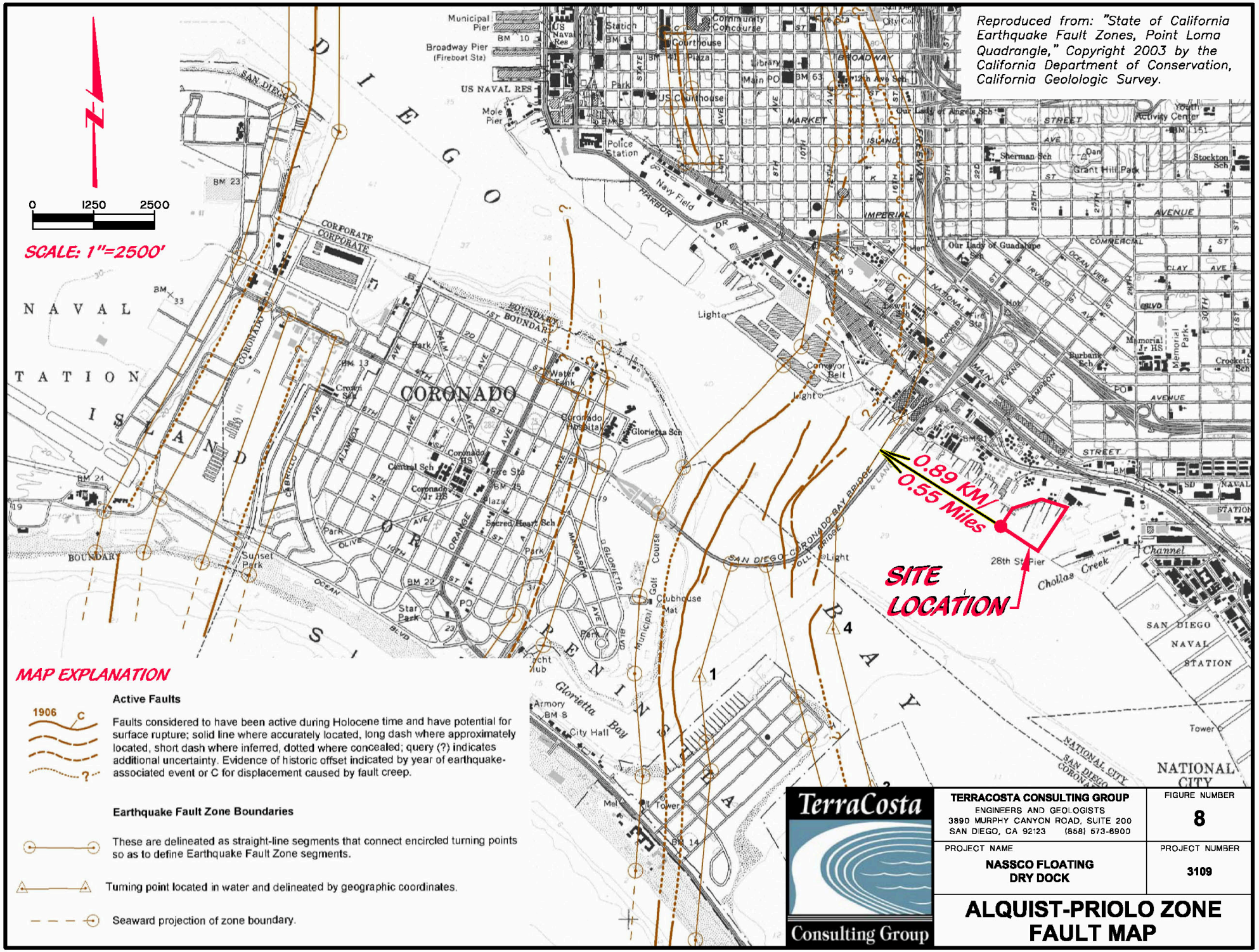
FIGURE NUMBER
7

PROJECT NAME
NASSCO FLOATING DRY DOCK

PROJECT NUMBER
3109

FAULT MAP



MAP EXPLANATION

Active Faults

1906 C

Faults considered to have been active during Holocene time and have potential for surface rupture; solid line where accurately located, long dash where approximately located, short dash where inferred, dotted where concealed; query (?) indicates additional uncertainty. Evidence of historic offset indicated by year of earthquake-associated event or C for displacement caused by fault creep.

Earthquake Fault Zone Boundaries

These are delineated as straight-line segments that connect encircled turning points so as to define Earthquake Fault Zone segments.

Turning point located in water and delineated by geographic coordinates.

Seaward projection of zone boundary.

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FIGURE NUMBER
8

PROJECT NAME
NASSCO FLOATING DRY DOCK

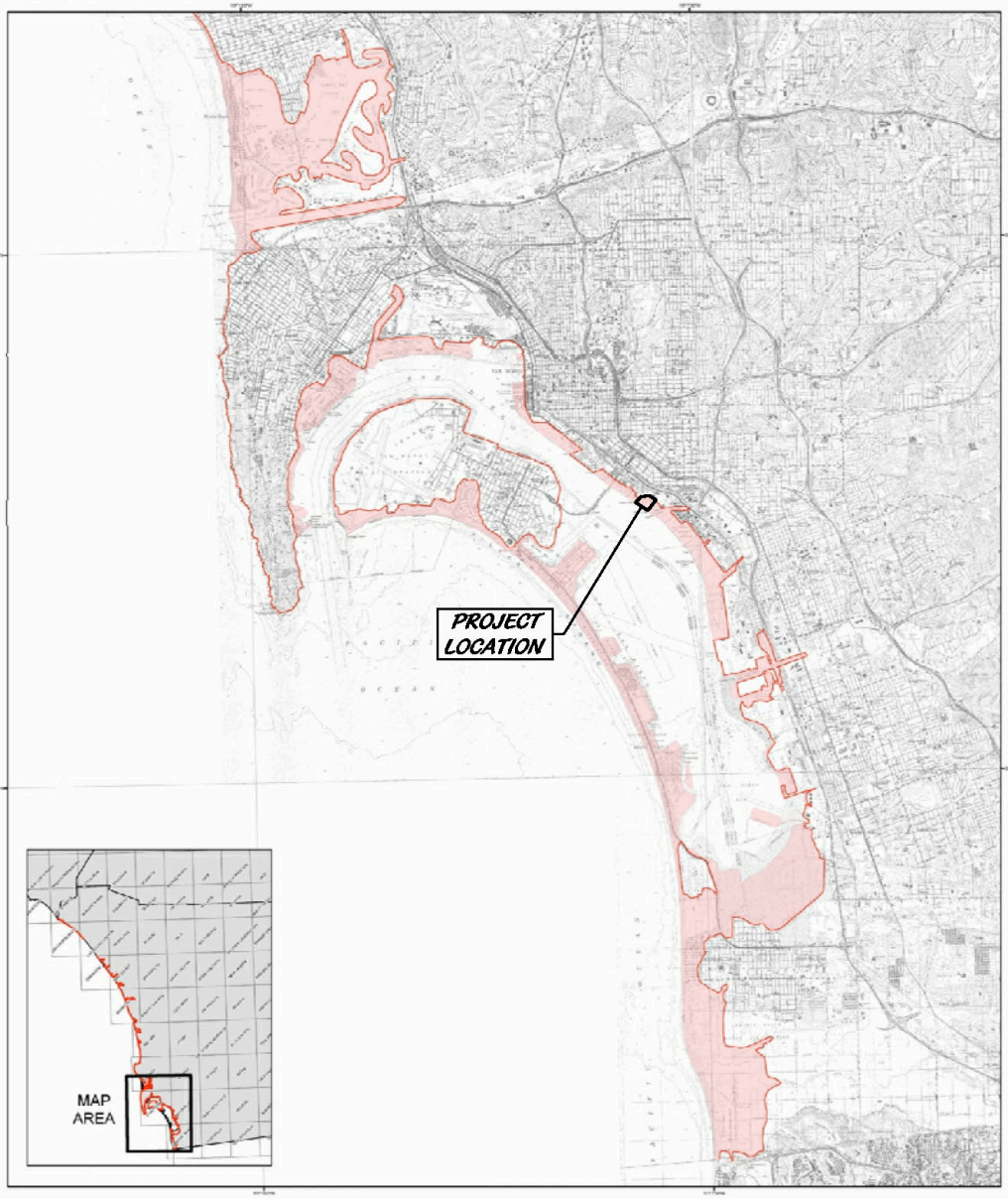
PROJECT NUMBER
3109

ALQUIST-PRIOLO ZONE FAULT MAP

California Emergency Management Agency
California Geological Survey
University of Southern California

Tsunami Inundation Map for Emergency Planning
San Diego Bay

State of California
County of San Diego



TSUNAMI INUNDATION MAP FOR EMERGENCY PLANNING

State of California ~ County of San Diego

SAN DIEGO BAY

June 1, 2009

SCALE 1:52,000

METHOD OF PREPARATION

Initial tsunami modeling was performed by the University of Southern California (USC) Tsunami Research Center funded through the California Emergency Management Agency (CalEMA) by the National Tsunami Hazard Mitigation Program. The tsunami modeling process utilized the MOST (Method of Splitting Tsunami) computational program (Version 0), which allows for wave evolution over a variable bathymetry and topography used for the inundation mapping (Titov and Gonzalez, 1997; Titov and Synolakis, 1998).

The bathymetric/topographic data that were used in the tsunami models consist of a series of nested grids. Near-shore grids with a 3-arc-second (~ to 90-meters) resolution or higher, were adjusted to 'Mean High Water' sea-level conditions, representing a conservative sea level for the intended use of the tsunami modeling and mapping.

A suite of tsunami source events was selected for modeling, representing realistic local and distant earthquakes and hypothetical extreme undersea, near-shore landslides (Table 1). Local tsunami sources that were considered include offshore reverse/thrust faults, restraining bends on strike-slip fault zones and large submarine landslides capable of significant seafloor displacement and tsunami generation. Distant tsunami sources that were considered include great subduction zone events that are known to have occurred historically (1960 Chile and 1964 Alaska earthquakes) and others which can occur around the Pacific Ocean 'Ring of Fire.'

In order to enhance the result from the 75- to 90-meter inundation grid data, a method was developed utilizing higher-resolution digital topographic data (3- to 10-meters resolution) that better defines the location of the maximum inundation line (U.S. Geological Survey, 1993; Intermap, 2003; NOAA, 2004). The location of the enhanced inundation line was determined by using digital imagery and terrain data on a GIS platform with consideration given to historic inundation information (Lander, et al., 1993). This information was verified, where possible, by field work coordinated with local county personnel.

The accuracy of the inundation line shown on these maps is subject to limitations in the accuracy and completeness of available terrain and tsunami source information, and the current understanding of tsunami generation and propagation phenomena as expressed in the models. Thus, although an attempt has been made to identify a credible upper bound to inundation at any location along the coastline, it remains possible that actual inundation could be greater in a major tsunami event.

This map does not represent inundation from a single scenario event. It was created by combining inundation results for an ensemble of source events affecting a given region (Table 1). For this reason, all of the inundation region in a particular area will not likely be inundated during a single tsunami event.

References:

Intermap Technologies, Inc. 2003, Intermap product handbook and quick start guide: Intermap NEXTmap document on 5-meter resolution data, 157 p.

Lander, J.F., Lockridge, P.A., and Kozuch, M.J., 1993, Tsunamis Affecting the West Coast of the United States 1806-1992: National Geophysical Data Center Key to Geophysical Record Documentation No. 29, NOAA, NESDIS, NGDC, 242 p.

National Atmospheric and Oceanic Administration (NOAA), 2004, Interferometric Synthetic Aperture Radar (IfSAR) Digital Elevation Models from GeoSAR platform (Earth Data): 5 meter resolution data.

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U.S. Geological Survey, 1993, Digital Elevation Models: National Mapping Program, technical instructions, Data Users Guide 5, 48 p.

Table 1. Tsunami sources modeled for the San Diego County coastline.

Sources (M = moment magnitude used in modeled event)		Areas of Inundation Map Coverage and Sources Used		
		Dana Point	Oceanside	San Diego
Local Sources	Coronado Thrust Fault		X	X
	Coseine Fault	X	X	X
	Coronado Bank Fault			X
	Lasuen Knoll Fault	X		X
	San Clemente Fault Bend Region			X
	San Clemente Island Fault			X
	San Mateo Thrust Fault	X	X	
	Coronado Canyon Landslide #1			X
Distant Sources	Cascadia Subduction Zone #3 (M9.2)	X		X
	Central Aleutians Subduction Zone#1 (M9.2)	X	X	X
	Central Aleutians Subduction Zone#2 (M9.2)	X		X
	Central Aleutians Subduction Zone#3 (M9.2)	X	X	X
	Chile North Subduction Zone (M9.4)	X		X
	1960 Chile Earthquake (M9.3)	X		X
	1952 Kamchatka Earthquake (M9.0)	X		
	1964 Alaska Earthquake (M9.2)	X	X	X
	Japan Subduction Zone #2 (M8.8)	X		X
	Kuril Islands Subduction Zone #2 (M8.8)	X		X
	Kuril Islands Subduction Zone #1 (M8.8)	X		X
	Kuril Islands Subduction Zone #4 (M8.8)	X		X

MAP EXPLANATION

Tsunami Inundation Line

Tsunami Inundation Area

PURPOSE OF THIS MAP

This tsunami inundation map was prepared to assist cities and counties in identifying their tsunami hazard. It is intended for local jurisdictional, coastal evacuation planning uses only. This map, and the information presented hereon, is not a legal document and does not meet disclosure requirements for real estate transactions nor for any other regulatory purpose.

The inundation map has been compiled with best currently available scientific information. The inundation line represents the maximum considered tsunami runup from a number of extreme, yet realistic, tsunami sources. Tsunamis are rare events, due to a lack of known occurrences in the historical record, this map includes no information about the probability of any tsunami affecting any area within a specific period of time.

Please refer to the following websites for additional information on the construction and/or intended use of the tsunami inundation map:

State of California Emergency Management Agency, Earthquake and Tsunami Program: http://www.oes.ca.gov/WebPageoeswebsite.nsf/ContentBtnEC518BA2159317688525741F005E8C607OpenDocument

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State of California Geological Survey tsunami information: http://www.conservation.ca.gov/cgs/geologic_hazards/tsunami/index.htm

National Oceanic and Atmospheric Agency Center for Tsunami Research (MOST model): http://nctr.pmel.noaa.gov/time/background/models.html

MAP BASE

Topographic base maps prepared by U.S. Geological Survey as part of the 7.5-minute Quadrangle Map Series (originally 1:24,000 scale). Tsunami inundation line boundaries may reflect updated digital orthophotographic and topographic data that can differ significantly from contours shown on the base map.

DISCLAIMER

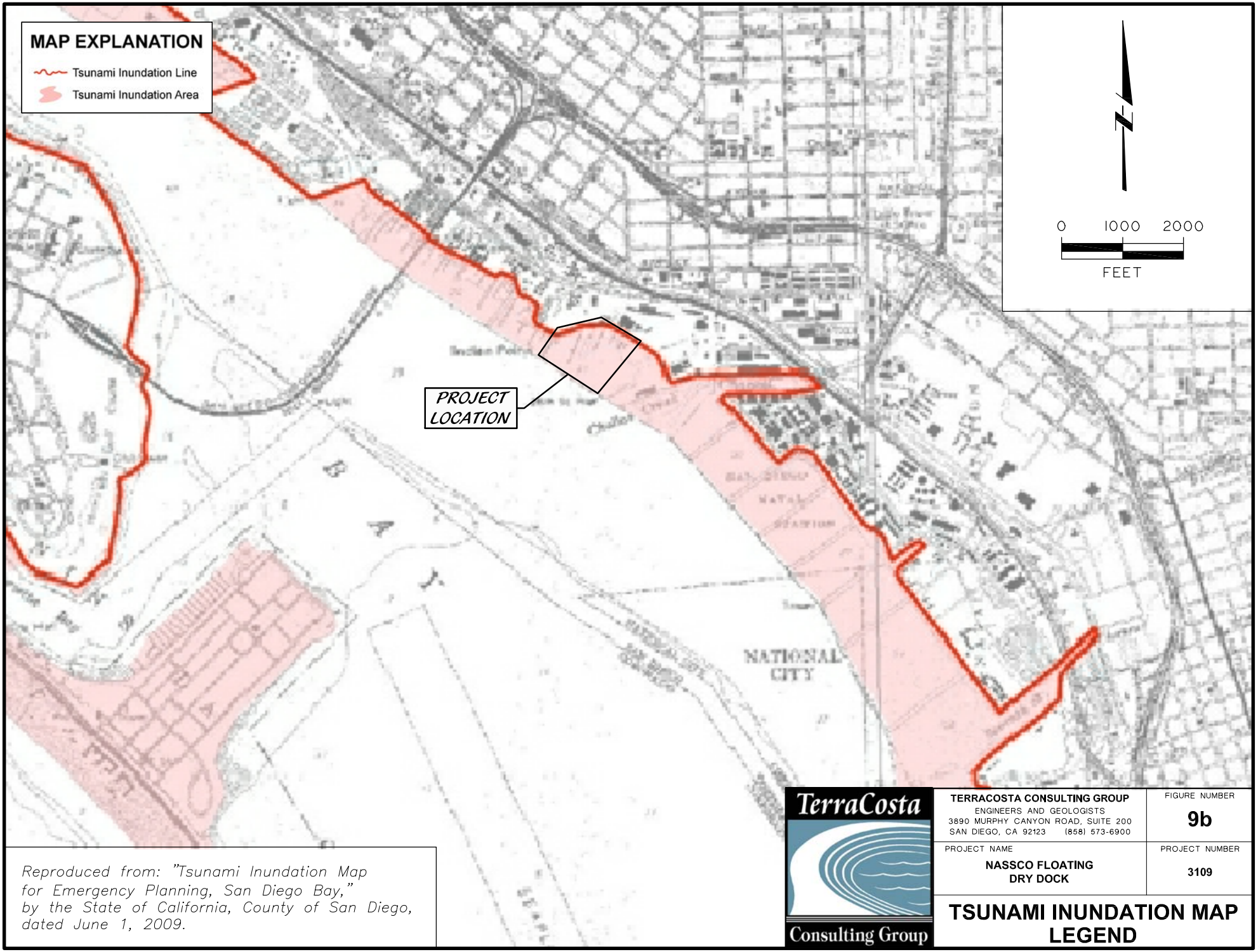
The California Emergency Management Agency (CalEMA), the University of Southern California (USC), and the California Geological Survey (CGS) make no representation or warranties regarding the accuracy of this inundation map nor the data from which the map was derived. Neither the State of California nor USC shall be liable under any circumstances for any direct, indirect, special, incidental or consequential damages with respect to any claim by any user or any third party on account of or arising from the use of this map.

TerraCosta Consulting Group

FIGURE NUMBER
9a

PROJECT NUMBER
3109

TSUNAMI INUNDATION MAP SAN DIEGO BAY



Reproduced from: "Tsunami Inundation Map for Emergency Planning, San Diego Bay," by the State of California, County of San Diego, dated June 1, 2009.

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SAN DIEGO, CA 92123 (858) 573-6900

FIGURE NUMBER
9b

PROJECT NAME
NASSCO FLOATING DRY DOCK

PROJECT NUMBER
3109

TSUNAMI INUNDATION MAP LEGEND

METHOD OF PREPARATION

Initial tsunami modeling was performed by the University of Southern California (USC) Tsunami Research Center funded through the California Emergency Management Agency (CalEMA) by the National Tsunami Hazard Mitigation Program. The tsunami modeling process utilized the MOST (Method of Splitting Tsunamis) computational program (Version 0), which allows for wave evolution over a variable bathymetry and topography used for the inundation mapping (Titov and Gonzalez, 1997; Titov and Synolakis, 1998).

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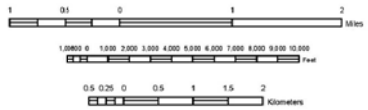
TSUNAMI INUNDATION MAP FOR EMERGENCY PLANNING

State of California ~ County of San Diego

SAN DIEGO BAY

June 1, 2009

SCALE 1:52,000



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	Catalina Fault	X	X	X
	Coronado Bank Fault			X
	Lasuen Knoll Fault	X		X
	San Clemente Fault Bend Region			X
	San Clemente Island Fault			X
	San Mateo Thrust Fault	X	X	
	Coronado Canyon Landslide #1			X
Distant Sources	Cascadia Subduction Zone #3 (M9.2)	X		X
	Central Aleutians Subduction Zone#1(M8.9)	X	X	X
	Central Aleutians Subduction Zone#2(M8.9)	X		X
	Central Aleutians Subduction Zone#3(M9.2)	X	X	X
	Chile North Subduction Zone (M9.4)	X		X
	1960 Chile Earthquake (M9.3)	X		X
	1952 Kamchatka Earthquake (M9.0)	X		
	1964 Alaska Earthquake (M9.2)	X	X	X
	Japan Subduction Zone #2 (M8.8)	X		X
	Kuril Islands Subduction Zone #2 (M8.8)	X		X
	Kuril Islands Subduction Zone #3 (M8.8)	X		X
	Kuril Islands Subduction Zone #4 (M8.8)	X		X

Cal EMA

CGS CALIFORNIA GEOLOGICAL SURVEY

USC UNIVERSITY OF SOUTHERN CALIFORNIA

MAP EXPLANATION

Tsunami Inundation Line

Tsunami Inundation Area

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ENGINEERS AND GEOLOGISTS
3890 MURPHY CANYON ROAD, SUITE 200
SAN DIEGO, CA 92123 (858) 573-6900

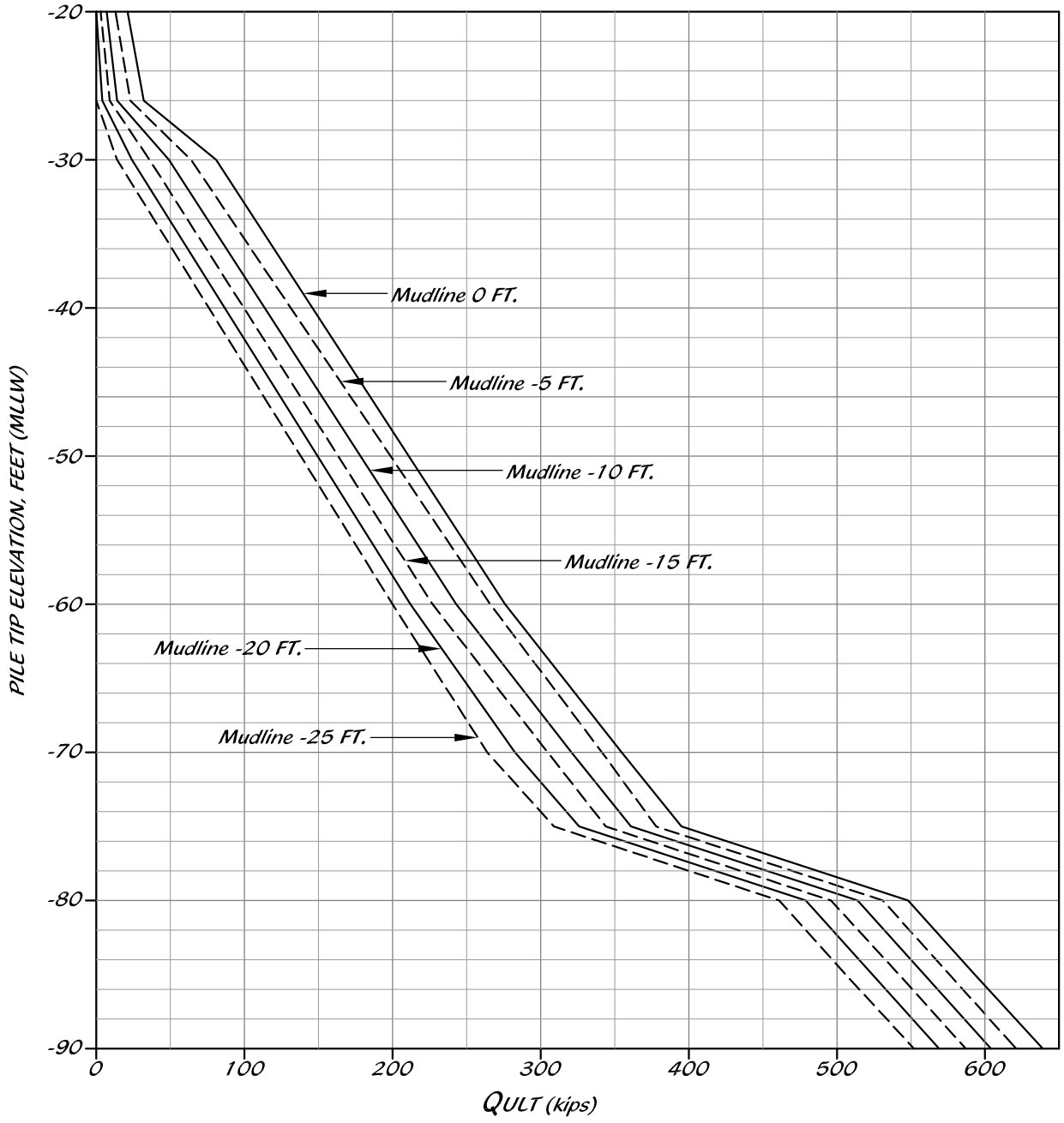
FIGURE NUMBER **9c**

PROJECT NAME **NASSCO FLOATING DRY DOCK**

PROJECT NUMBER **3109**

TSUNAMI INUNDATION MAP LEGEND

ESTIMATED ULTIMATE AXIAL COMPRESSION CAPACITY OF 16-INCH SQUARE CONCRETE PILE



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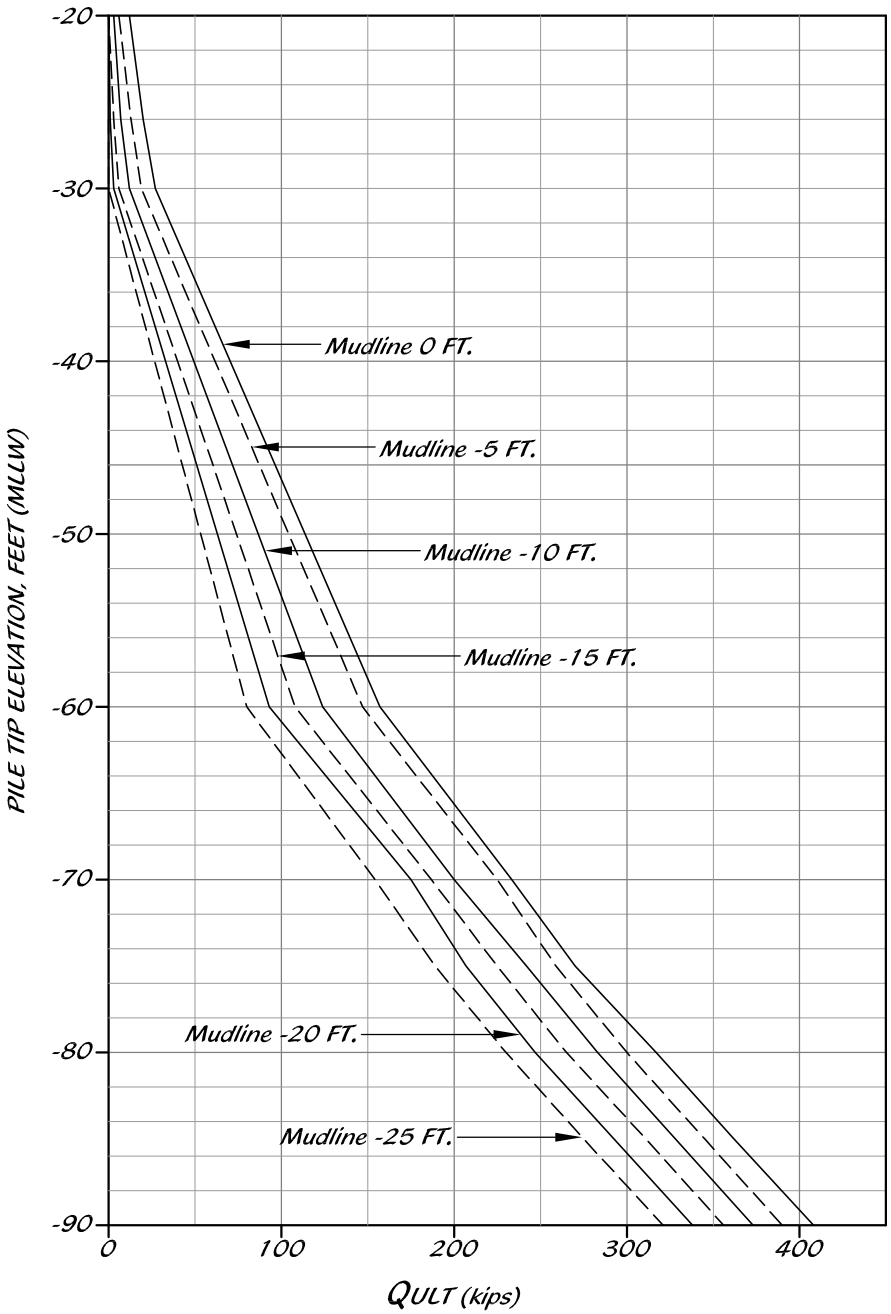
TERRACOSTA CONSULTING GROUP ENGINEERS AND GEOLOGISTS 3890 MURPHY CANYON ROAD, SUITE 200 SAN DIEGO, CA 92123 (858) 573-6900	FIGURE NUMBER 10
PROJECT NAME NASSCO FLOATING DRY DOCK	PROJECT NUMBER 3109
ESTIMATED ULTIMATE AXIAL COMPRESSION CAPACITY OF 16-INCH SQUARE CONCRETE PILE	

ESTIMATED ULTIMATE UPLIFT CAPACITY OF 16-INCH SQUARE CONCRETE PILE



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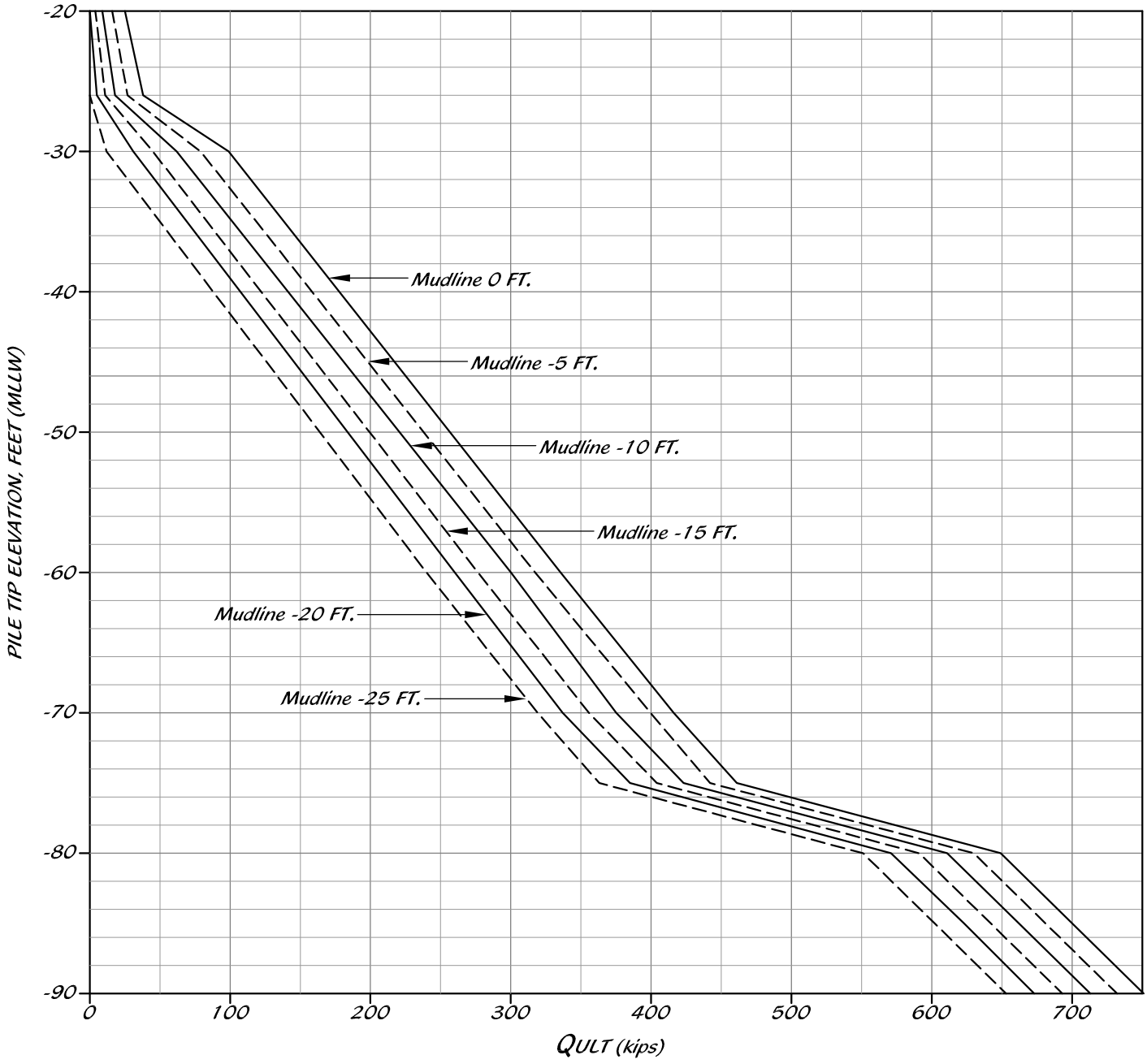
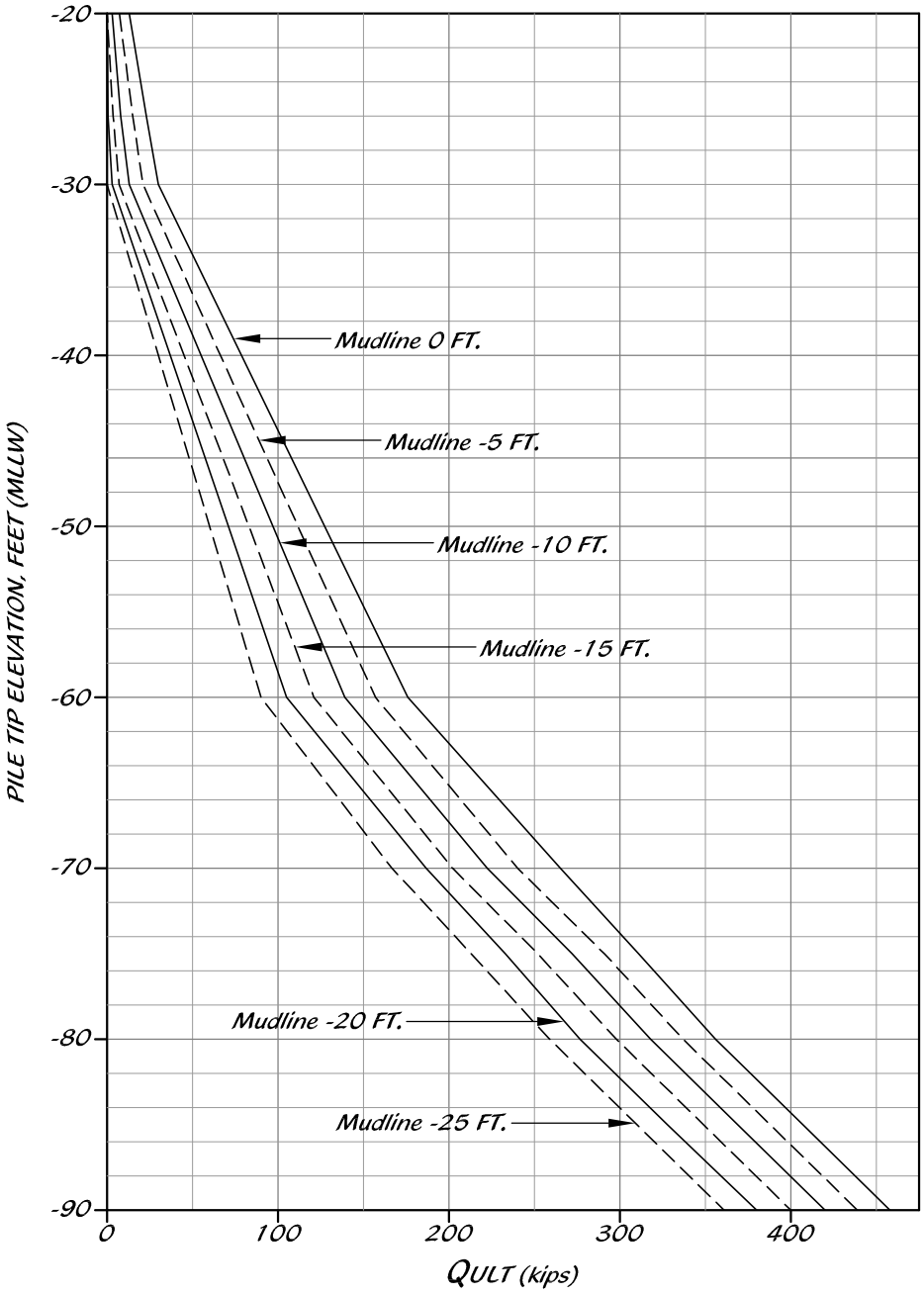
TERRACOSTA CONSULTING GROUP ENGINEERS AND GEOLOGISTS 3890 MURPHY CANYON ROAD, SUITE 200 SAN DIEGO, CA 92123 (858) 573-6900	FIGURE NUMBER 11
PROJECT NAME NASSCO FLOATING DRY DOCK	PROJECT NUMBER 3109
ESTIMATED ULTIMATE UPLIFT CAPACITY OF 16-INCH SQUARE CONCRETE PILE	

ESTIMATED ULTIMATE AXIAL COMPRESSION CAPACITY OF 18-INCH SQUARE CONCRETE PILE



TerraCosta Consulting Group	TERRACOSTA CONSULTING GROUP ENGINEERS AND GEOLOGISTS 3890 MURPHY CANYON ROAD, SUITE 200 SAN DIEGO, CA 92123 (858) 573-6900	FIGURE NUMBER 12
	PROJECT NAME NASSCO FLOATING DRY DOCK	PROJECT NUMBER 3109
	ESTIMATED ULTIMATE AXIAL COMPRESSION CAPACITY OF 18-INCH SQUARE CONCRETE PILE	

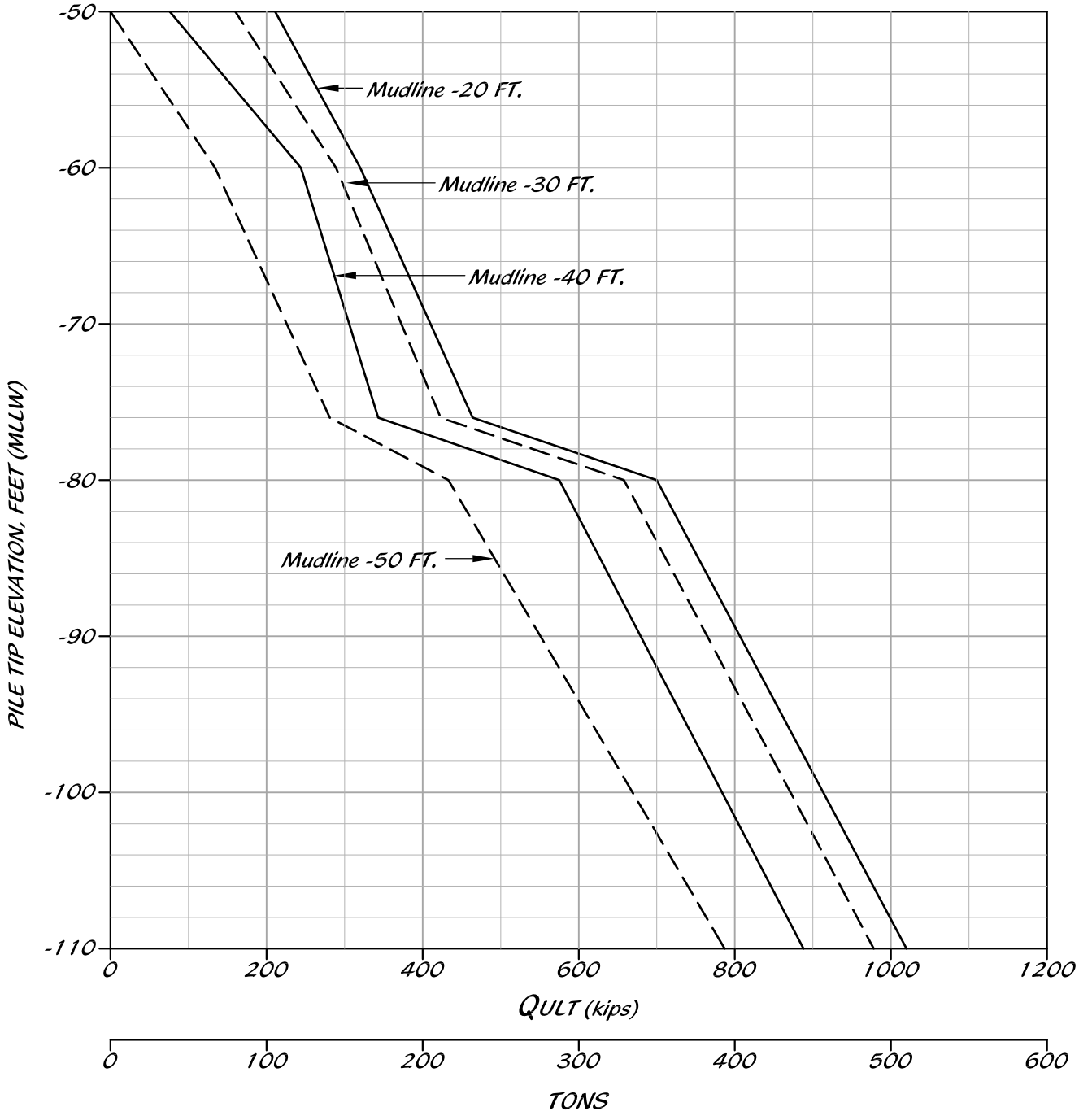
ESTIMATED ULTIMATE UPLIFT CAPACITY OF 18-INCH SQUARE CONCRETE PILE



TerraCosta Consulting Group

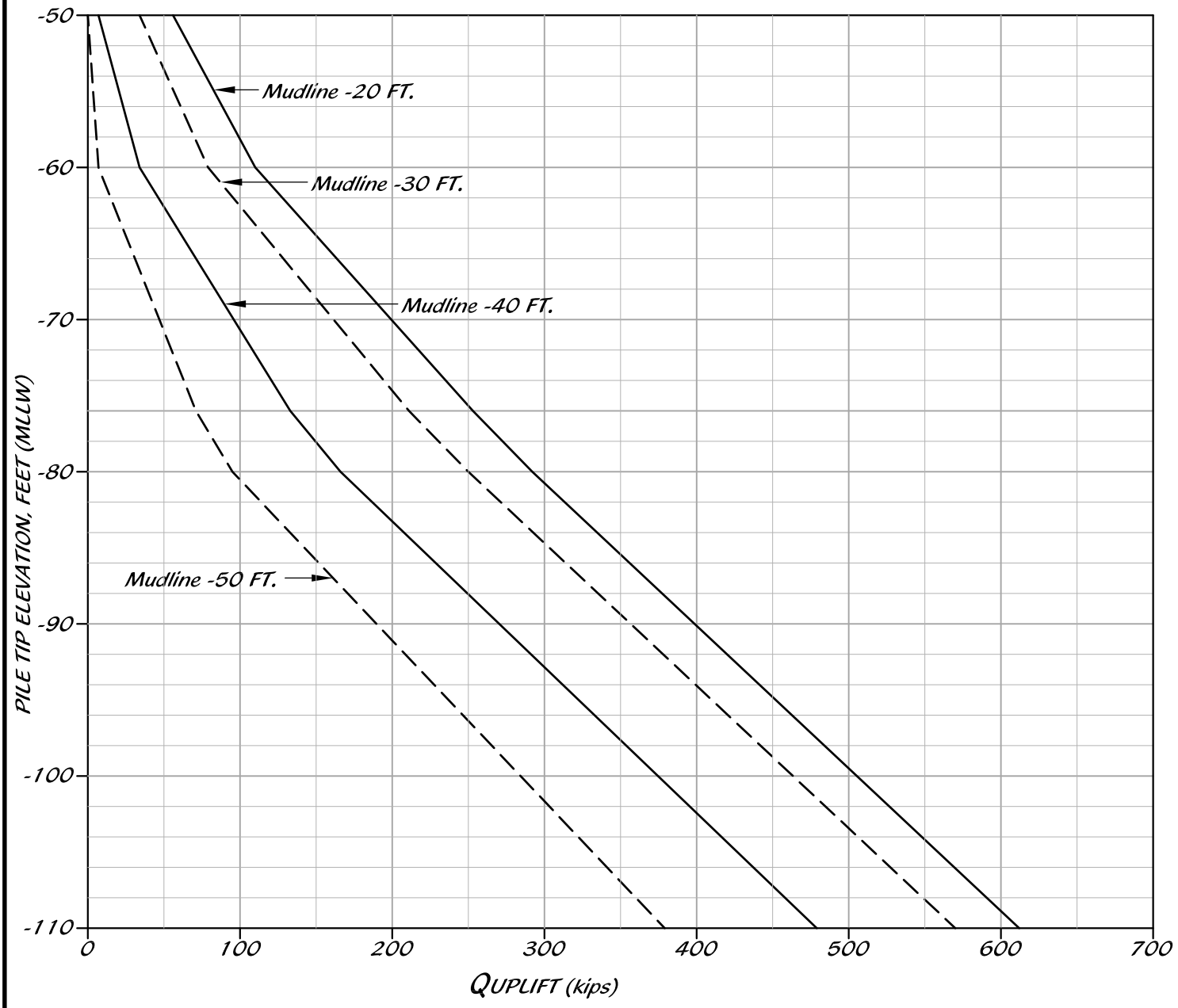
TERRACOSTA CONSULTING GROUP ENGINEERS AND GEOLOGISTS 3890 MURPHY CANYON ROAD, SUITE 200 SAN DIEGO, CA 92123 (858) 573-6900	FIGURE NUMBER 13
PROJECT NAME NASSCO FLOATING DRY DOCK	PROJECT NUMBER 3109
ESTIMATED ULTIMATE UPLIFT CAPACITY OF 18-INCH SQUARE CONCRETE PILE	

ESTIMATED ULTIMATE AXIAL COMPRESSION CAPACITY OF 24-INCH OCTAGONAL CONCRETE PILE



TerraCosta Consulting Group	TERRACOSTA CONSULTING GROUP ENGINEERS AND GEOLOGISTS 3890 MURPHY CANYON ROAD, SUITE 200 SAN DIEGO, CA 92123 (858) 573-6900	FIGURE NUMBER 14
	PROJECT NAME NASSCO FLOATING DRY DOCK	PROJECT NUMBER 3109
	ESTIMATED ULTIMATE AXIAL COMPRESSION CAPACITY OF 24-INCH OCTAGONAL CONCRETE PILE	

ESTIMATED ULTIMATE UPLIFT CAPACITY OF 24-INCH OCTAGONAL CONCRETE PILE



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TERRACOSTA CONSULTING GROUP
ENGINEERS AND GEOLOGISTS
3890 MURPHY CANYON ROAD, SUITE 200
SAN DIEGO, CA 92123 (858) 573-6900

FIGURE NUMBER
15

PROJECT NAME
NASSCO FLOATING
DRY DOCK

PROJECT NUMBER
3109

ESTIMATED ULTIMATE UPLIFT CAPACITY OF 24-INCH OCTAGONAL CONCRETE PILE

APPENDIX A

LOGS OF EXCAVATIONS

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LOG OF TEST BORING

PROJECT NAME: NASSCO FLOATING DRY DOCK	PROJECT NUMBER: 3109	BORING: B-1A	
SITE LOCATION: SAN DIEGO, CA	START: 5/19/2020	FINISH: 5/19/2020	SHEET NO.: 1 of 2
DRILLING COMPANY: Pacific Drilling	DRILLING METHOD: Hollow Stem Auger	LOGGED BY: M. Martinez	CHECKED BY: G. Spaulding
DRILLING EQUIPMENT: Marl M10	BORING DIA. (in): 6"	TOTAL DEPTH (ft): 31.5	GROUND ELEV (ft): -33.6
SAMPLING METHOD: CAL/SPT	NOTES: 6286708.61E, 1831515.56N		DEPTH/*ELEV.* GROUND WATER (ft): ▼ n/a

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
									MUD LINE - Auger weight sank ~ 3 feet below mud line. BAY DEPOSITS **SANDY SILT TO SILTY SAND (ML/SM)**, soft to loose, saturated, dark gray, fine grained sand, medium plasticity
5	-35								
	-40	S	1	24					YOUNGER TERRACE DEPOSITS **SILTY SAND (SM)**, medium dense, moist, gray-brown, mottled with orange, fine grained sand, finely laminated with black silt, micaceous
10	-45	S	2	58					- Becomes very dense
15	-50	S	3	23					- Flowing sands - No recovery due to flowing sands

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FIGURE A-2 a

LOG OF TEST BORING

PROJECT NAME: NASSCO FLOATING DRY DOCK	PROJECT NUMBER: 3109	BORING: B-1A	
SITE LOCATION: SAN DIEGO, CA	START: 5/19/2020	FINISH: 5/19/2020	SHEET NO.: 2 of 2
DRILLING COMPANY: Pacific Drilling	DRILLING METHOD: Hollow Stem Auger	LOGGED BY: M. Martinez	CHECKED BY: G. Spaulding
DRILLING EQUIPMENT: Marl M10	BORING DIA. (in): 6"	TOTAL DEPTH (ft): 31.5	GROUND ELEV (ft): -33.6
SAMPLING METHOD: CAL/SPT	NOTES: 6286708.61E, 1831515.56N		DEPTH/*ELEV.* GROUND WATER (ft): ▼ n/a

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
									YOUNGER TERRACE DEPOSITS
	-55								
		S	4	37					- Becomes dark gray with some subrounded cobble
25									**CLAYEY SAND TO SANDY CLAY (SC/CL)**, very dense, moist, light gray-brown, fine grained sand, abundant subrounded fine gravel
	-60								
		S	5	50/3"					
30									- Practical drilling refusal
	-65								
									Boring terminated at 31.5 feet below mud line.
35									
	-70								

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FIGURE A-2 b

TCG_METRIC_LOG(3) 3109.GPJ GDCLOGMT.GDT 7/16/20

LOG OF TEST BORING

PROJECT NAME NASSCO FLOATING DRY DOCK		**PROJECT NUMBER** 3109	**BORING** B-1B
SITE LOCATION SAN DIEGO, CA	**START** 5/19/2020	**FINISH** 5/19/2020	**SHEET NO.** 1 of 5
DRILLING COMPANY Pacific Drilling	**DRILLING METHOD** Hollow Stem Auger	**LOGGED BY** M. Martinez	**CHECKED BY** G. Spaulding
DRILLING EQUIPMENT Marl M10	**BORING DIA. (in)** 6"	**TOTAL DEPTH (ft)** 83	**GROUND ELEV (ft)** -33.6	**DEPTH/*ELEV.* GROUND WATER (ft)** ▼ n/a
SAMPLING METHOD CAL/SPT	**NOTES** 6286676.30N, 1831539.97E		

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
									MUD LINE After reaching refusal in B-1A at ~ -65.1 feet, the barge was rotated ~ 10 feet northwest. Advanced augers to approximate refusal depth prior to resuming sampling.
	-35								
5									
	-40								
10									
	-45								
15									
	-50								

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FIGURE A-3 a

LOG OF TEST BORING

PROJECT NAME NASSCO FLOATING DRY DOCK		**PROJECT NUMBER** 3109	**BORING** B-1B
SITE LOCATION SAN DIEGO, CA	**START** 5/19/2020	**FINISH** 5/19/2020	**SHEET NO.** 2 of 5
DRILLING COMPANY Pacific Drilling	**DRILLING METHOD** Hollow Stem Auger	**LOGGED BY** M. Martinez	**CHECKED BY** G. Spaulding
DRILLING EQUIPMENT Marl M10	**BORING DIA. (in)** 6"	**TOTAL DEPTH (ft)** 83	**GROUND ELEV (ft)** -33.6	**DEPTH/*ELEV.* GROUND WATER (ft)** ▼ n/a
SAMPLING METHOD CAL/SPT	**NOTES** 6286676.30N, 1831539.97E		

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
25	-55								
	-60								
30	-65								YOUNGER TERRACE DEPOSITS **LOW PLASTICITY CLAY (CL)**, hard, moist, dark gray-brown, fine grained sand, texturally gradational, occasional interbeds of oxidized fine grained sand
		S	6	29					
35	-70								**LOW PLASTICITY CLAY (CL)**, hard, moist, light gray mottled w/ orange, lenses to zones of oxidized fine to medium grained sand
		C	7	52					

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FIGURE A-3 b

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LOG OF TEST BORING

PROJECT NAME: NASSCO FLOATING DRY DOCK	PROJECT NUMBER: 3109	BORING: B-1B	
SITE LOCATION: SAN DIEGO, CA	START: 5/19/2020	FINISH: 5/19/2020	SHEET NO.: 3 of 5
DRILLING COMPANY: Pacific Drilling	DRILLING METHOD: Hollow Stem Auger	LOGGED BY: M. Martinez	CHECKED BY: G. Spaulding
DRILLING EQUIPMENT: Marl M10	BORING DIA. (in): 6"	TOTAL DEPTH (ft): 83	GROUND ELEV (ft): -33.6
SAMPLING METHOD: CAL/SPT	NOTES: 6286676.30N, 1831539.97E		DEPTH/*ELEV.* GROUND WATER (ft): ▼ n/a

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
									YOUNGER TERRACE DEPOSITS
	-75								
45									
	-80								
									LOW PLASTICITY CLAY (CL), hard, moist, reddish-brown, fine to medium grained sand
		S	8	38					
50									
	-85								
									OLDER TERRACE DEPOSITS **SILTY SAND TO CLAYEY SAND (SM/SC)**, very dense, wet, gray-brown, fine to medium grained sand, trace coarse grained sand, gradationally interlayered, micaceous
55									
	-90								
		D	9	50/3"					

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FIGURE A-3 c

LOG OF TEST BORING

PROJECT NAME: NASSCO FLOATING DRY DOCK	PROJECT NUMBER: 3109	BORING: B-1B	
SITE LOCATION: SAN DIEGO, CA	START: 5/19/2020	FINISH: 5/19/2020	SHEET NO.: 4 of 5
DRILLING COMPANY: Pacific Drilling	DRILLING METHOD: Hollow Stem Auger	LOGGED BY: M. Martinez	CHECKED BY: G. Spaulding
DRILLING EQUIPMENT: Marl M10	BORING DIA. (in): 6"	TOTAL DEPTH (ft): 83	GROUND ELEV (ft): -33.6
SAMPLING METHOD: CAL/SPT	NOTES: 6286676.30N, 1831539.97E		DEPTH/*ELEV.* GROUND WATER (ft): ▼ n/a

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
									OLDER TERRACE DEPOSITS
	-95								
65									**SILTY SAND(SM)**, dense, moist, dark brown, fine to medium grained, occasional lenses (1") of fine grained sandy clay, micaceous
	-100								
		S	10	34					
70									
	-105								**SILTY SAND TO SILTY CLAY (SM/CL)**, very dense to hard, moist, dark gray to reddish-brown, fine grained sand, interlayered (1-1.5"), micaceous
75									
	-110								
		S	11	61					

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FIGURE A-3 d

LOG OF TEST BORING

PROJECT NAME: NASSCO FLOATING DRY DOCK	PROJECT NUMBER: 3109	BORING: B-1B	
SITE LOCATION: SAN DIEGO, CA	START: 5/19/2020	FINISH: 5/19/2020	SHEET NO.: 5 of 5
DRILLING COMPANY: Pacific Drilling	DRILLING METHOD: Hollow Stem Auger	LOGGED BY: M. Martinez	CHECKED BY: G. Spaulding
DRILLING EQUIPMENT: Marl M10	BORING DIA. (in): 6"	TOTAL DEPTH (ft): 83	GROUND ELEV (ft): -33.6
SAMPLING METHOD: CAL/SPT	NOTES: 6286676.30N, 1831539.97E		DEPTH/*ELEV.* GROUND WATER (ft): ▼ n/a

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
	-115								OLDER TERRACE DEPOSITS
85	-120								Boring terminated at 83 feet below mud line.
90	-125								
95	-130								

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FIGURE A-3 e

LOG OF TEST BORING

PROJECT NAME NASSCO FLOATING DRY DOCK		**PROJECT NUMBER** 3109	**BORING** B-2
SITE LOCATION SAN DIEGO, CA	**START** 5/18/2020	**FINISH** 5/18/2020	**SHEET NO.** 1 of 5
DRILLING COMPANY Pacific Drilling	**DRILLING METHOD** Hollow Stem Auger	**LOGGED BY** M. Martinez	**CHECKED BY** G. Spaulding
DRILLING EQUIPMENT Marl M10	**BORING DIA. (in)** 6"	**TOTAL DEPTH (ft)** 91.5	**GROUND ELEV (ft)** -25.06
SAMPLING METHOD CAL/SPT	**NOTES** 6286929.96E, 1831873.77N		**DEPTH/*ELEV.* GROUND WATER (ft)** ▼ n/a

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
									MUD LINE - Auger weight sank ~ 6.5 feet below mud line. BAY DEPOSITS **SANDY SILT TO SILTY SAND (ML/SM)**, soft to loose, saturated, dark gray, fine grained sand, poorly consolidated
5	-30								
10	-35								**SILT (ML)**, very soft, saturated, black, medium plasticity, micaceous YOUNGER TERRACE DEPOSITS **SILTY SAND (SM)**, very dense, wet, gray, fine grained sand, consolidated, micaceous
15	-40	◯	1	50/3"					

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FIGURE A-4 a

LOG OF TEST BORING

PROJECT NAME NASSCO FLOATING DRY DOCK		**PROJECT NUMBER** 3109	**BORING** B-2
SITE LOCATION SAN DIEGO, CA	**START** 5/18/2020	**FINISH** 5/18/2020	**SHEET NO.** 2 of 5
DRILLING COMPANY Pacific Drilling	**DRILLING METHOD** Hollow Stem Auger	**LOGGED BY** M. Martinez	**CHECKED BY** G. Spaulding
DRILLING EQUIPMENT Marl M10	**BORING DIA. (in)** 6"	**TOTAL DEPTH (ft)** 91.5	**GROUND ELEV (ft)** -25.06
SAMPLING METHOD CAL/SPT	**NOTES** 6286929.96E, 1831873.77N		**DEPTH/*ELEV.* GROUND WATER (ft)** ▼ n/a

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
									YOUNGER TERRACE DEPOSITS
		S	2	22					**CLAYEY SAND TO SANDY CLAY (SC/CL)**, medium dense to very stiff, saturated, reddish-brown to gray-brown, fine to medium grained sand, manganese nodules
25	-50								
		C	3	28	107.5	20.7	PI GS DS		**LOW PLASTICITY CLAY (CL)**, very stiff, wet, light olive-gray mottled w/ orange, fine grained sand, weathered, micaceous
									LOW PLASTICITY CLAY (CL), very stiff, moist, light reddish-brown, fine to medium grained sand
30	-55	S	4	24					
									- Becomes medium stiff, reddish-brown to gray-brown
35	-60	S	5	14					

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FIGURE A-4 b

LOG OF TEST BORING

PROJECT NAME NASSCO FLOATING DRY DOCK		**PROJECT NUMBER** 3109	**BORING** B-2
SITE LOCATION SAN DIEGO, CA	**START** 5/18/2020	**FINISH** 5/18/2020	**SHEET NO.** 3 of 5
DRILLING COMPANY Pacific Drilling	**DRILLING METHOD** Hollow Stem Auger	**LOGGED BY** M. Martinez	**CHECKED BY** G. Spaulding
DRILLING EQUIPMENT Marl M10	**BORING DIA. (in)** 6"	**TOTAL DEPTH (ft)** 91.5	**GROUND ELEV (ft)** -25.06
SAMPLING METHOD CAL/SPT	**NOTES** 6286929.96E, 1831873.77N		**DEPTH/*ELEV.* GROUND WATER (ft)** ▼ n/a

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
									YOUNGER TERRACE DEPOSITS
									OLDER TERRACE DEPOSITS **SILTY SAND (SM)**, very dense, saturated, light gray-brown, fine to medium grained sand, gradationally interlayered zones of clayey sand
			6	81	113.3	15.4	PI GS DS		
45	-70								
			7	50					
50	-75								**SANDY CLAY TO CLAYEY SAND (CL/SC)**, hard to dense, moist, gray-brown, fine to medium grained sand
			8	31					
55	-80								**SILTY SAND (SM)**, very dense, saturated, light gray-brown, fine to medium grained sand, gradationally interlayered zones of clayey sand
			9	37					

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FIGURE A-4 c

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LOG OF TEST BORING

PROJECT NAME NASSCO FLOATING DRY DOCK		**PROJECT NUMBER** 3109	**BORING** B-2
SITE LOCATION SAN DIEGO, CA	**START** 5/18/2020	**FINISH** 5/18/2020	**SHEET NO.** 4 of 5
DRILLING COMPANY Pacific Drilling	**DRILLING METHOD** Hollow Stem Auger	**LOGGED BY** M. Martinez	**CHECKED BY** G. Spaulding
DRILLING EQUIPMENT Marl M10	**BORING DIA. (in)** 6"	**TOTAL DEPTH (ft)** 91.5	**GROUND ELEV (ft)** -25.06	**DEPTH/*ELEV.* GROUND WATER (ft)** ▼ n/a
SAMPLING METHOD CAL/SPT	**NOTES** 6286929.96E, 1831873.77N		

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
									OLDER TERRACE DEPOSITS
		S	10	20					- Becomes medium dense
65	-90								
		S	11	51					- Becomes very dense, wet, gray-brown, fine to medium grained sand, micaceous
70	-95								
		S	12	71					- Disregard, sloughed recovery
									SANDY SILT TO SILTY SAND (ML/SM), very dense, moist, gray-brown with trace reddish-brown, fine grained sand, well consolidated, trace shell fragments, micaceous
75	-100								
		S	13	53					
									SILTY SAND (SM), dense, moist, gray-brown, fine grained sand, laminated with light brown fine grained sand

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FIGURE A-4 d

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LOG OF TEST BORING

PROJECT NAME NASSCO FLOATING DRY DOCK		**PROJECT NUMBER** 3109	**BORING** B-2
SITE LOCATION SAN DIEGO, CA	**START** 5/18/2020	**FINISH** 5/18/2020	**SHEET NO.** 5 of 5
DRILLING COMPANY Pacific Drilling	**DRILLING METHOD** Hollow Stem Auger	**LOGGED BY** M. Martinez	**CHECKED BY** G. Spaulding
DRILLING EQUIPMENT Marl M10	**BORING DIA. (in)** 6"	**TOTAL DEPTH (ft)** 91.5	**GROUND ELEV (ft)** -25.06
SAMPLING METHOD CAL/SPT	**NOTES** 6286929.96E, 1831873.77N		**DEPTH/*ELEV.* GROUND WATER (ft)** ▼ n/a

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
									OLDER TERRACE DEPOSITS
		S	14	42					
85	-110								**SILT (ML)**, hard, moist, gray-brown to reddish-brown, fine grained sand, moderately plastic, micaceous
		C	15	50/5"					
90	-115								Boring terminated at 91.5 feet below mud line.
95	-120								

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FIGURE A-4 e

LOG OF TEST BORING

PROJECT NAME NASSCO FLOATING DRY DOCK		**PROJECT NUMBER** 3109	**BORING** B-3
SITE LOCATION SAN DIEGO, CA	**START** 5/15/2020	**FINISH** 5/15/2020	**SHEET NO.** 1 of 4
DRILLING COMPANY Pacific Drilling	**DRILLING METHOD** Hollow Stem Auger	**LOGGED BY** M. Martinez	**CHECKED BY** G. Spaulding
DRILLING EQUIPMENT Marl M10	**BORING DIA. (in)** 6"	**TOTAL DEPTH (ft)** 69.5	**GROUND ELEV (ft)** -45.01	**DEPTH/*ELEV.* GROUND WATER (ft)** ▼ n/a
SAMPLING METHOD CAL/SPT	**NOTES** 6287731.28E, 1831535.31N		

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
									MUD LINE BAY DEPOSITS **SANDY SILT TO SILTY SAND (ML/SM)**, soft to loose, saturated, dark gray, fine grained sand, poorly consolidated
5	-50								
10	-55								YOUNGER TERRACE DEPOSITS **CLAYEY SAND (SC)**, dense, wet, olive-brown to light gray, fine grained sand, interlayered, some subrounded gravel
		S	1	23					
15	-60								**SILT (ML)**, very stiff, moist, gray-brown to reddish-brown, gradationally interlayered clayey fine to medium grained sand
		S	2	20					

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FIGURE A-5 a

LOG OF TEST BORING

PROJECT NAME NASSCO FLOATING DRY DOCK		**PROJECT NUMBER** 3109	**BORING** B-3
SITE LOCATION SAN DIEGO, CA	**START** 5/15/2020	**FINISH** 5/15/2020	**SHEET NO.** 2 of 4
DRILLING COMPANY Pacific Drilling	**DRILLING METHOD** Hollow Stem Auger	**LOGGED BY** M. Martinez	**CHECKED BY** G. Spaulding
DRILLING EQUIPMENT Marl M10	**BORING DIA. (in)** 6"	**TOTAL DEPTH (ft)** 69.5	**GROUND ELEV (ft)** -45.01
SAMPLING METHOD CAL/SPT	**NOTES** 6287731.28E, 1831535.31N		**DEPTH/*ELEV.* GROUND WATER (ft)** ▼ n/a

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
									YOUNGER TERRACE DEPOSITS
		S	3	32					**SILTY SAND (SM)**, dense, wet, light brown to gray, fine to medium grained sand, trace coarse grained sand, moderately consolidated
25	-70								
		S	4	19					**SILTY CLAY TO CLAYEY SILT (CL/ML)**, very stiff, moist, gray-brown to reddish-brown, slightly plastic
30	-75								
		C	5	44					**SILTY SAND (SM)**, very dense, moist,reddish-brown to gray-brown, fine grained sand, laminated w/ black silt
35	-80								
		S	6	20					OLDER TERRACE DEPOSITS **CLAYEY SAND TO SANDY CLAY (SC/CL)**, medium dense to very stiff, moist, gray mottled w/ orangish-brown, fine grained sand, micaceous

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FIGURE A-5 b

TCG_METRIC_LOG(3) 3109.GPJ GDCLOGMT.GDT 7/16/20

LOG OF TEST BORING

PROJECT NAME NASSCO FLOATING DRY DOCK		**PROJECT NUMBER** 3109	**BORING** B-3
SITE LOCATION SAN DIEGO, CA	**START** 5/15/2020	**FINISH** 5/15/2020	**SHEET NO.** 3 of 4
DRILLING COMPANY Pacific Drilling	**DRILLING METHOD** Hollow Stem Auger	**LOGGED BY** M. Martinez	**CHECKED BY** G. Spaulding
DRILLING EQUIPMENT Marl M10	**BORING DIA. (in)** 6"	**TOTAL DEPTH (ft)** 69.5	**GROUND ELEV (ft)** -45.01
SAMPLING METHOD CAL/SPT	**NOTES** 6287731.28E, 1831535.31N		**DEPTH/*ELEV.* GROUND WATER (ft)** ▼ n/a

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
									OLDER TERRACE DEPOSITS
		C	7	27					**LOW TO HIGH PLASTICITY CLAY (CL/CH)**, very stiff, wet, gray mottled w/ orange, fine grained sand, high plasticity, trace shell fragments
45	-90								
		S	8	21					**LOW PLASTICITY CLAY (CL)**, very stiff, moist, dark gray mottled w/ orange, fine grained sand
50	-95								
		C	9	50/4.5"					**SILTY SAND (SM)**, very dense, wet, yellowish-brown to gray-brown, fine to medium grained sand, consolidated, micaceous
55	-100								
		S	10	30					**SILT (ML)**, hard, moist, dark gray-brown, fine grained sand, micaceous

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FIGURE A-5 c

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LOG OF TEST BORING

PROJECT NAME: NASSCO FLOATING DRY DOCK	PROJECT NUMBER: 3109	BORING: B-3	
SITE LOCATION: SAN DIEGO, CA	START: 5/15/2020	FINISH: 5/15/2020	SHEET NO.: 4 of 4
DRILLING COMPANY: Pacific Drilling	DRILLING METHOD: Hollow Stem Auger	LOGGED BY: M. Martinez	CHECKED BY: G. Spaulding
DRILLING EQUIPMENT: Marl M10	BORING DIA. (in): 6"	TOTAL DEPTH (ft): 69.5	GROUND ELEV (ft): -45.01
SAMPLING METHOD: CAL/SPT	NOTES: 6287731.28E, 1831535.31N		DEPTH/*ELEV.* GROUND WATER (ft): ▼ n/a

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
									OLDER TERRACE DEPOSITS
		S	11	36					**SILTY SAND TO CLAYEY SAND (SM/SC)**, dense, moist, gray-brown, fine grained sand, micaceous
65	-110								
									SILT (ML), very stiff, moist, gray-brown, fine grained sand, micaceous
		S	12	33					
70	-115								Boring terminated at 69.5 feet below mud line.
75	-120								

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FIGURE A-5 d

TCG_METRIC_LOG(3) 3109.GPJ GDCLOGMT.GDT 7/16/20

LOG OF TEST BORING

PROJECT NAME NASSCO FLOATING DRY DOCK		**PROJECT NUMBER** 3109	**BORING** B-4
SITE LOCATION SAN DIEGO, CA	**START** 5/14/2020	**FINISH** 5/14/2020	**SHEET NO.** 1 of 4
DRILLING COMPANY Pacific Drilling	**DRILLING METHOD** Hollow Stem Auger	**LOGGED BY** M. Martinez	**CHECKED BY** G. Spaulding
DRILLING EQUIPMENT Marl M10	**BORING DIA. (in)** 6"	**TOTAL DEPTH (ft)** 64.5	**GROUND ELEV (ft)** -51.65	**DEPTH/*ELEV.* GROUND WATER (ft)** ▼ n/a
SAMPLING METHOD CAL/SPT	**NOTES** 6287862.82E, 1831956.49N		

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
									MUD LINE - Auger weight sank ~ 3 feet below mudline. BAY DEPOSITS **SANDY SILT TO SILTY SAND (ML/SM)**, soft to loose, saturated, dark gray, fine grained sand, poorly consolidated
	-55								
5									
									YOUNGER TERRACE DEPOSITS **LOW PLASTICITY CLAY (CL)**, very stiff, wet, olive-brown mottled w/ orange, fine grained sand
	-60	S	1	15					
10									
									HIGH PLASTICITY CLAY (CH), very stiff, wet, gray-brown, fine grained sand
	-65	C	2	50					**SILTY SAND (SM)**, very dense, wet, gray-brown to light brown, fine to medium grained sand, interlayered w/ black silt
15									
	-70	S	3	50					

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FIGURE A-6 a

LOG OF TEST BORING

PROJECT NAME: NASSCO FLOATING DRY DOCK	PROJECT NUMBER: 3109	BORING: B-4	
SITE LOCATION: SAN DIEGO, CA	START: 5/14/2020	FINISH: 5/14/2020	SHEET NO.: 2 of 4
DRILLING COMPANY: Pacific Drilling	DRILLING METHOD: Hollow Stem Auger	LOGGED BY: M. Martinez	CHECKED BY: G. Spaulding
DRILLING EQUIPMENT: Marl M10	BORING DIA. (in): 6"	TOTAL DEPTH (ft): 64.5	GROUND ELEV (ft): -51.65
SAMPLING METHOD: CAL/SPT	NOTES: 6287862.82E, 1831956.49N		DEPTH/*ELEV.* GROUND WATER (ft): ▼ n/a

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
									YOUNGER TERRACE DEPOSITS
									SILTY CLAY TO CLAYEY SAND (CL/SC), hard to dense, moist, reddish-brown, fine to medium grained sand, gradationally interlayered
	-75	S	4	34					
25									OLDER TERRACE DEPOSITS
									SANDY TO CLAYEY SILT (ML/MH), very stiff, moist, olive-gray to reddish-brown, fine grained sand, gradationally interlayered, micaceous
	-80	S	5	21					
30									
									SANDY SILT TO SANDY CLAY (ML/CL),hard, moist, dark gray-brown, fine grained sand, slightly plastic, gradationally interlayered, micaceous
	-85	S	6	35					
35									
									SILT (ML), very stiff, moist, olive-gray, fine grained sand, occasional lenses of light gray fine grained sandy clay
	-90	S	7	22					

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FIGURE A-6 b

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LOG OF TEST BORING

PROJECT NAME: NASSCO FLOATING DRY DOCK	PROJECT NUMBER: 3109	BORING: B-4	
SITE LOCATION: SAN DIEGO, CA	START: 5/14/2020	FINISH: 5/14/2020	SHEET NO.: 3 of 4
DRILLING COMPANY: Pacific Drilling	DRILLING METHOD: Hollow Stem Auger	LOGGED BY: M. Martinez	CHECKED BY: G. Spaulding
DRILLING EQUIPMENT: Marl M10	BORING DIA. (in): 6"	TOTAL DEPTH (ft): 64.5	GROUND ELEV (ft): -51.65
SAMPLING METHOD: CAL/SPT	NOTES: 6287862.82E, 1831956.49N		DEPTH/*ELEV.* GROUND WATER (ft): ▼ n/a

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
									OLDER TERRACE DEPOSITS
	-95	S	8	22					**SILT (ML)**, very stiff, moist, light olive-gray, fine grained sand, micaceous, mottled
45									
	-100	S	9	40					**SILTY SAND (SM)**, dense, moist, gray, fine to medium grained sand, interlayered oxidized sand
50									
	-105	S	10	9					- No sample recovery due to flowing sands
55									
	-110	S	11	57					- Becomes very dense, wet, gray-brown, gradationally interlayered, finely laminated with black silt

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FIGURE A-6 c

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LOG OF TEST BORING

PROJECT NAME NASSCO FLOATING DRY DOCK		**PROJECT NUMBER** 3109	**BORING** B-4
SITE LOCATION SAN DIEGO, CA	**START** 5/14/2020	**FINISH** 5/14/2020	**SHEET NO.** 4 of 4
DRILLING COMPANY Pacific Drilling	**DRILLING METHOD** Hollow Stem Auger	**LOGGED BY** M. Martinez	**CHECKED BY** G. Spaulding
DRILLING EQUIPMENT Marl M10	**BORING DIA. (in)** 6"	**TOTAL DEPTH (ft)** 64.5	**GROUND ELEV (ft)** -51.65
SAMPLING METHOD CAL/SPT	**NOTES** 6287862.82E, 1831956.49N		**DEPTH/*ELEV.* GROUND WATER (ft)** ▼ n/a

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
									OLDER TERRACE DEPOSITS
	-115	S	12	35					
65									Boring terminated at 64.5 feet below mud line.
	-120								
70									
	-125								
75									
	-130								

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FIGURE A-6 d

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LOG OF TEST BORING

PROJECT NAME	PROJECT NUMBER	BORING
NASSCO FLOATING DRY DOCK	3109	**B-5**

SITE LOCATION	START	FINISH	SHEET NO.
SAN DIEGO, CA	5/13/2020	5/13/2020	1 of 3

DRILLING COMPANY	DRILLING METHOD	LOGGED BY	CHECKED BY
Pacific Drilling	Hollow Stem Auger	M. Martinez	G. Spaulding

DRILLING EQUIPMENT	BORING DIA. (in)	TOTAL DEPTH (ft)	GROUND ELEV (ft)	DEPTH/*ELEV.* GROUND WATER (ft)
Marl M10	6"	55	-15.05	▼ n/a

SAMPLING METHOD: CAL/SPT

NOTES: 6287905.24E, 1832107.26N

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
									MUD LINE - Auger weight sank ~ 5 feet below mudline. <u>BAY DEPOSITS</u> **SANDY SILT TO SILTY SAND (ML/SM)**, soft to loose, saturated, dark gray, fine grained sand, poorly consolidated
5	-20								
10	-25	S	1	Push					
									SILT (ML), saturated, medium stiff, dark gay, fine grained sand, slightly plastic, some fractured shell, micaceous
15	-30	C	2	5					
									<u>YOUNGER TERRACE DEPOSITS</u> **SILTY SAND (SM)**, medium, moist, dense, olive-brown to light brown, fine grained sand, micaceous

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FIGURE A-7 a

LOG OF TEST BORING

PROJECT NAME NASSCO FLOATING DRY DOCK		**PROJECT NUMBER** 3109	**BORING** B-5
SITE LOCATION SAN DIEGO, CA	**START** 5/13/2020	**FINISH** 5/13/2020	**SHEET NO.** 2 of 3
DRILLING COMPANY Pacific Drilling	**DRILLING METHOD** Hollow Stem Auger	**LOGGED BY** M. Martinez	**CHECKED BY** G. Spaulding
DRILLING EQUIPMENT Marl M10	**BORING DIA. (in)** 6"	**TOTAL DEPTH (ft)** 55	**GROUND ELEV (ft)** -15.05
SAMPLING METHOD CAL/SPT	**NOTES** 6287905.24E, 1832107.26N		**DEPTH/*ELEV.* GROUND WATER (ft)** ▼ n/a

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
			3	16					YOUNGER TERRACE DEPOSITS
25	-40		4	21	94.2	28.2	PI GS DS		**HIGH PLASTICITY CLAY (CH)**, very stiff, moist, olive-gray mottled w/ orange, fine grained sand
30	-45		5	12					
35	-50		6	29					**HIGH PLASTICITY CLAY (CH)**, very stiff, moist, olive-gray w/ orange, laminated

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FIGURE A-7 b

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LOG OF TEST BORING

PROJECT NAME NASSCO FLOATING DRY DOCK		**PROJECT NUMBER** 3109	**BORING** B-5
SITE LOCATION SAN DIEGO, CA	**START** 5/13/2020	**FINISH** 5/13/2020	**SHEET NO.** 3 of 3
DRILLING COMPANY Pacific Drilling	**DRILLING METHOD** Hollow Stem Auger	**LOGGED BY** M. Martinez	**CHECKED BY** G. Spaulding
DRILLING EQUIPMENT Marl M10	**BORING DIA. (in)** 6"	**TOTAL DEPTH (ft)** 55	**GROUND ELEV (ft)** -15.05	**DEPTH/*ELEV.* GROUND WATER (ft)** ▼ n/a
SAMPLING METHOD CAL/SPT	**NOTES** 6287905.24E, 1832107.26N		

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
			7	30					YOUNGER TERRACE DEPOSITS **SILTY SAND TO CLAYEY SAND (SM/SC)**, medium dense, wet, olive-gray, fine to medium grained sand, abundant fractured gravel
45	-60		8	44					OLDER TERRACE DEPOSITS **SILTY SAND (SM)**, dense, wet, olive-gray, fine to medium grained sand
									CLAYEY SAND TO SILT (SC/ML), dense to hard, moist, reddish-brown to olive-brown, fine to medium grained sand, gradationally interlayered, silt interlayers are micaceous
50	-65		9	44					
55	-70								Boring terminated at 55 feet below mud line.

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FIGURE A-7 c

LOG OF TEST BORING

PROJECT NAME NASSCO FLOATING DRY DOCK		**PROJECT NUMBER** 3109	**BORING** B-6
SITE LOCATION SAN DIEGO, CA	**START** 5/13/2020	**FINISH** 5/13/2020	**SHEET NO.** 1 of 3
DRILLING COMPANY Pacific Drilling	**DRILLING METHOD** Hollow Stem Auger	**LOGGED BY** M. Martinez	**CHECKED BY** G. Spaulding
DRILLING EQUIPMENT Marl M10	**BORING DIA. (in)** 6"	**TOTAL DEPTH (ft)** 50.5	**GROUND ELEV (ft)** -21.5
SAMPLING METHOD CAL/SPT	**NOTES** 6288006.06E, 1832081.3N		**DEPTH/*ELEV.* GROUND WATER (ft)** ▼ n/a

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
									MUD LINE - Auger weight sank ~ 2 feet below mudline. <u>BAY DEPOSITS</u> **SANDY SILT TO SILTY SAND (ML/SM)**, soft to loose, saturated, dark gray, fine grained sand, poorly consolidated
5	-25								
10	-30	C	1	7					
									<u>YOUNGER TERRACE DEPOSITS</u> **SANDY CLAY TO CLAYEY SAND (CL/SC)**, medium stiff, moist, olive-brown, fine grained sand
15	-35	S	2	9					
									LOW TO HIGH PLASTICITY CLAY (CL/CH), stiff, wet, gray-brown, fine grained sand, isolated lenses of clayey sand w/ abundant fractured shell
	-40	S	3	14					

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FIGURE A-8 a

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LOG OF TEST BORING

PROJECT NAME NASSCO FLOATING DRY DOCK		**PROJECT NUMBER** 3109	**BORING** B-6
SITE LOCATION SAN DIEGO, CA	**START** 5/13/2020	**FINISH** 5/13/2020	**SHEET NO.** 2 of 3
DRILLING COMPANY Pacific Drilling	**DRILLING METHOD** Hollow Stem Auger	**LOGGED BY** M. Martinez	**CHECKED BY** G. Spaulding
DRILLING EQUIPMENT Marl M10	**BORING DIA. (in)** 6"	**TOTAL DEPTH (ft)** 50.5	**GROUND ELEV (ft)** -21.5
SAMPLING METHOD CAL/SPT	**NOTES** 6288006.06E, 1832081.3N		**DEPTH/*ELEV.* GROUND WATER (ft)** ▼ n/a

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
									YOUNGER TERRACE DEPOSITS
	-45								
25		C	4	29					- Becomes moist, very stiff, olive-gray with reddish-brown, fine grained, finely laminated, mottled
	-50								
30		S	5	25					**LOW PLASTICITY CLAY (CL)**, very stiff, moist, gray-brown w/ orange, fine grained sand, trace fractured shell, oxidation along discontinuous partings and fractures
	-55								**HIGH PLASTICITY CLAY TO ELASTIC SILT (CH/MH)**, very stiff, wet, olive-gray, fine grained sand, micaceous
35		C	6	21					
	-60								**CLAYEY SAND (SC)**, dense, moist, reddish-brown, fine to medium grained sand, indurated, trace manganese modules
		S	7	31					OLDER TERRACE DEPOSITS

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FIGURE A-8 b

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LOG OF TEST BORING

PROJECT NAME NASSCO FLOATING DRY DOCK		**PROJECT NUMBER** 3109	**BORING** B-6
SITE LOCATION SAN DIEGO, CA	**START** 5/13/2020	**FINISH** 5/13/2020	**SHEET NO.** 3 of 3
DRILLING COMPANY Pacific Drilling	**DRILLING METHOD** Hollow Stem Auger	**LOGGED BY** M. Martinez	**CHECKED BY** G. Spaulding
DRILLING EQUIPMENT Marl M10	**BORING DIA. (in)** 6"	**TOTAL DEPTH (ft)** 50.5	**GROUND ELEV (ft)** -21.5
SAMPLING METHOD CAL/SPT	**NOTES** 6288006.06E, 1832081.3N		**DEPTH/*ELEV.* GROUND WATER (ft)** ▼ n/a

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
									OLDER TERRACE DEPOSITS
									SANDY SILT TO SANDY CLAY (ML/CL), hard, moist, dark gray, fine grained sand, micaceous
	-65								
45		C	8	31	91.4	28.5	PI GS DS		
									SILT (ML), very stiff, moist, dark olive-gray, fine grained sand, finely laminated with light brown silt, micaceous
	-70								
50		S	9	23					
									Boring terminated at 50.5 feet below mud line.
	-75								
55									
	-80								

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FIGURE A-8 c

TCG_METRIC_LOG(3) 3109.GPJ GDCLOGMT.GDT 7/16/20

LOG OF TEST BORING

PROJECT NAME NASSCO FLOATING DRY DOCK		**PROJECT NUMBER** 3109	**BORING** B-7
SITE LOCATION SAN DIEGO, CA	**START** 5/12/2020	**FINISH** 5/12/2020	**SHEET NO.** 1 of 4
DRILLING COMPANY Pacific Drilling	**DRILLING METHOD** Hollow Stem Auger	**LOGGED BY** M. Martinez	**CHECKED BY** G. Spaulding
DRILLING EQUIPMENT Marl M10	**BORING DIA. (in)** 6"	**TOTAL DEPTH (ft)** 61.5	**GROUND ELEV (ft)** -9.6	**DEPTH/*ELEV.* GROUND WATER (ft)** ▼ n/a
SAMPLING METHOD CAL/SPT	**NOTES** 6287960.32E, 1832130.75N		

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
	-10								MUD LINE - Auger weight sank ~ 5 feet below mudline. <u>BAY DEPOSITS</u> **SANDY SILT TO SILTY SAND (ML/SM)**, soft to loose, saturated, dark gray, fine grained sand, poorly consolidated
5	-15								
									SILTY SAND (SM), loose, saturated, dark gray, fine to medium grained sand, some fractured shell, trace gravel
10	-20	S	1	5					
									SILTY SAND (SM), loose, wet, olive-gray, fine grained sand, trace clay, micaceous
15	-25	C	2	9					

TCG_METRIC_LOG(3) 3109.GPJ GDCLOGMT.GDT 7/16/20

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San Diego, California 92123

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.

FIGURE A-9 a

LOG OF TEST BORING

PROJECT NAME NASSCO FLOATING DRY DOCK		**PROJECT NUMBER** 3109	**BORING** B-7
SITE LOCATION SAN DIEGO, CA	**START** 5/12/2020	**FINISH** 5/12/2020	**SHEET NO.** 2 of 4
DRILLING COMPANY Pacific Drilling	**DRILLING METHOD** Hollow Stem Auger	**LOGGED BY** M. Martinez	**CHECKED BY** G. Spaulding
DRILLING EQUIPMENT Marl M10	**BORING DIA. (in)** 6"	**TOTAL DEPTH (ft)** 61.5	**GROUND ELEV (ft)** -9.6	**DEPTH/*ELEV.* GROUND WATER (ft)** ▼ n/a
SAMPLING METHOD CAL/SPT	**NOTES** 6287960.32E, 1832130.75N		

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
	-30	S	3	6					BAY DEPOSITS
									YOUNGER TERRACE DEPOSITS **LOW PLASTICITY CLAY (CL)**, very stiff, moist, olive-gray to gray-brown, fine grained sand, oxidation along discontinuous parting and fractures
25	-35	C	4	24	98.7	26.2	PI GS DS		
30	-40	S	5	14					**LOW PLASTICITY CLAY (CL)**, stiff, moist, olive-brown, fine grained sand, slightly plastic
35	-45	S	6	15					- Oxidation along discontinuous partings and fractures
									CLAYEY SAND TO SANDY CLAY (SC/CL), medium dense to very stiff, moist, olive-gray to gray-brown, fine grained sand, micaceous

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FIGURE A-9 b

TCG_METRIC_LOG(3) 3109.GPJ GDCLOGMT.GDT 7/16/20

LOG OF TEST BORING

PROJECT NAME	PROJECT NUMBER	BORING
NASSCO FLOATING DRY DOCK	3109	B-7

SITE LOCATION	START	FINISH	SHEET NO.
SAN DIEGO, CA	5/12/2020	5/12/2020	3 of 4

DRILLING COMPANY	DRILLING METHOD	LOGGED BY	CHECKED BY
Pacific Drilling	Hollow Stem Auger	M. Martinez	G. Spaulding

DRILLING EQUIPMENT	BORING DIA. (in)	TOTAL DEPTH (ft)	GROUND ELEV (ft)	DEPTH/*ELEV.* GROUND WATER (ft)
Marl M10	6"	61.5	-9.6	▼ n/a

SAMPLING METHOD	NOTES
CAL/SPT	6287960.32E, 1832130.75N

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
	-50	S	7	21					YOUNGER TERRACE DEPOSITS
									SANDY SILT TO SANDY CLAY (SM/CL), medium dense to very stiff, moist, fine to medium grained sand, interlayered, moderately plastic
45	-55	S	8	26					
									OLDER TERRACE DEPOSITS **LOW PLASTICITY CLAY (CL)**, hard, moist, reddish-brown to gray-brown
50	-60	S	9	39					
									CLAYEY SAND TO SANDY CLAY (SC/CL), moist, hard, olive-gray, fine grained
55	-65	S	10	25					**LOW PLASTICITY CLAY (CL)**, hard, saturated, light brown, fine grained sand, occasional lenses of medium grained sand

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FIGURE A-9 c

TCG_METRIC_LOG(3) 3109.GPJ GDCLOGMT.GDT 7/16/20

LOG OF TEST BORING

PROJECT NAME: NASSCO FLOATING DRY DOCK	PROJECT NUMBER: 3109	BORING: B-7	
SITE LOCATION: SAN DIEGO, CA	START: 5/12/2020	FINISH: 5/12/2020	SHEET NO.: 4 of 4
DRILLING COMPANY: Pacific Drilling	DRILLING METHOD: Hollow Stem Auger	LOGGED BY: M. Martinez	CHECKED BY: G. Spaulding
DRILLING EQUIPMENT: Marl M10	BORING DIA. (in): 6"	TOTAL DEPTH (ft): 61.5	GROUND ELEV (ft): -9.6
SAMPLING METHOD: CAL/SPT	NOTES: 6287960.32E, 1832130.75N		DEPTH/*ELEV.* GROUND WATER (ft): ▼ n/a

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
	-70	◯	11	31					OLDER TERRACE DEPOSITS
65	-75								Boring terminated at 61.5 feet below mud line.
70	-80								
75	-85								

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FIGURE A-9 d

TCG_METRIC_LOG(3) 3109.GPJ GDCLOGMT.GDT 7/16/20

LOG OF TEST BORING

PROJECT NAME: NASSCO FLOATING DRY DOCK	PROJECT NUMBER: 3109	BORING: **LEGEND**	
SITE LOCATION: SAN DIEGO, CA	START: 5/11/2020	FINISH: 5/19/2020	SHEET NO.: 1 of 2
DRILLING COMPANY: Pacific Drilling	DRILLING METHOD: Hollow Stem Auger	LOGGED BY: M. Martinez	CHECKED BY: G. Spaulding
DRILLING EQUIPMENT: Marl M10	BORING DIA. (in): 6"	TOTAL DEPTH (ft): 40	GROUND ELEV (ft):	DEPTH/*ELEV.* GROUND WATER (ft): ▼ n/a
SAMPLING METHOD: CAL/SPT	NOTES:		

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION

5

10

15

KEY TO EXCAVATION LOGS

WATER TABLE MEASURED AT TIME OF DRILLING

OTHER TESTS

CC	Confined Compression	ppm	parts per million of VOCs*
CL	Chloride Content	R	Resistivity
CS	Consolidation	RV	R-Value
DS	Direct Shear	SA	Sieve Analysis
EI	Expansion Index	SE	Sand Equivalent
GS	Grain Size Analysis	SF	Sulfate
LC	Laboratory Compaction	SG	Specific Gravity
pH	Hydrogen Ion	SW	Swell
PI	Plasticity Index		

PENETRATION RESISTANCE (BLOWS/ft)

Number of blows required to advance the sampler 1 foot.

California Sampler blow counts can be converted to equivalent SPT blow counts by using an end-area conversion factor of 0.67 when using a 140-pound hammer and a 30-inch drop.

SAMPLE TYPE

C ("California Sampler") - An 18-inch-long, 2-1/2-inch I.D., 3-inch O.D., thick-walled sampler. The sampler is lined with eighteen 2-3/8-inch I.D. brass rings. Relatively undisturbed, intact soils samples are retained in the brass rings.

S ("SPT") - a.k.a. Standard Penetration Test, an 18-inch-long, 2-inch O.D., 1-3/8-inch I.D. drive sampler.

(CONTINUED)

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FIGURE A-1 a

TCG_METRIC_LOG(3) 3109.GPJ GDCLOGMT.GDT 7/16/20

LOG OF TEST BORING

PROJECT NAME: NASSCO FLOATING DRY DOCK	PROJECT NUMBER: 3109	BORING: **LEGEND**	
SITE LOCATION: SAN DIEGO, CA	START: 5/11/2020	FINISH: 5/19/2020	SHEET NO.: 2 of 2
DRILLING COMPANY: Pacific Drilling	DRILLING METHOD: Hollow Stem Auger	LOGGED BY: M. Martinez	CHECKED BY: G. Spaulding
DRILLING EQUIPMENT: Marl M10	BORING DIA. (in): 6"	TOTAL DEPTH (ft): 40	GROUND ELEV (ft):	DEPTH/*ELEV.* GROUND WATER (ft): ▼ n/a
SAMPLING METHOD: CAL/SPT	NOTES:		

DEPTH (ft)	ELEVATION (ft)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS/ft)	DRY DENSITY (pcf)	MOISTURE (%)	OTHER TESTS	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
25									
30									
35									

KEY TO EXCAVATION LOGS

(CONTINUED)

NOTES ON FIELD INVESTIGATION

Borings were advanced using a truck-mounted Marl M10 drill rig with a 6-inch hollow-stem auger.

Standard Penetration Tests (SPT) and California Samplers (CAL) were used to obtain soil samples. The SPT were driven into the soil at the bottom of the borings with a 140-pound hammer falling 30 inches. When the samplers were withdrawn from the boring, the samples were removed, visually classified, sealed in plastic containers, and taken to the laboratory for detailed inspection.

Classifications are based upon the Unified Soil Classification System and include color, moisture, and consistency. Field descriptions have been modified to reflect results of laboratory inspection where deemed appropriate. At the completion of drilling, all borings were sealed per state and local standards.

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FIGURE A-1 b

TCG_METRIC_LOG(3) 3109.GPJ GDCLOGMT.GDT 7/16/20

APPENDIX B

LABORATORY TEST RESULTS

TerraCosta Consulting Group

wood.
9177 Sky Park Court, San Diego, CA 92123
Phone: 858-278-3600 Fax: 858-278-5300

Particle Size Distribution/Soil Classification

ASTM D6913 & ASTM D7928

Project Name:	NASSCO Floating Dry Dock	Lab #:	33679
Project #:	5015-19-0002.13		
Sampled By:	MM	Date Sampled:	5/18/2020
Tested By:	MG/LC/BL	Date Tested:	6/10 - 6/12/2020
Reviewed By:	M. Gibson	Date Reviewed:	6/12/2020

Sample Location: B-2 @ 26.5'

Soil Type: Sandy Lean Clay, CL

Particle Size Distribution, Lab #33679

Sieve Size	Sieve Opening/ Particle Size (mm)	Percent Passing
4"	101.60	100
3-1/2"	88.90	100
3"	76.20	100
2"	50.80	100
1-1/2"	38.10	100
1"	25.40	100
3/4"	19.00	100
1/2"	12.70	100
3/8"	9.51	100
#4	4.76	100
#10	2.00	100
#20	0.841	99.3
#40	0.420	96.4
#60	0.250	93.2
#100	0.149	88.0
#140	0.105	80.3
#200	0.074	64.0
Hydrometer Test Result	0.0477	36.31
	0.0343	32.40
	0.0220	28.50
	0.0128	26.16
	0.0091	25.37
	0.0065	23.76
	0.0046	22.20
	0.0033	20.53
	0.0014	15.44

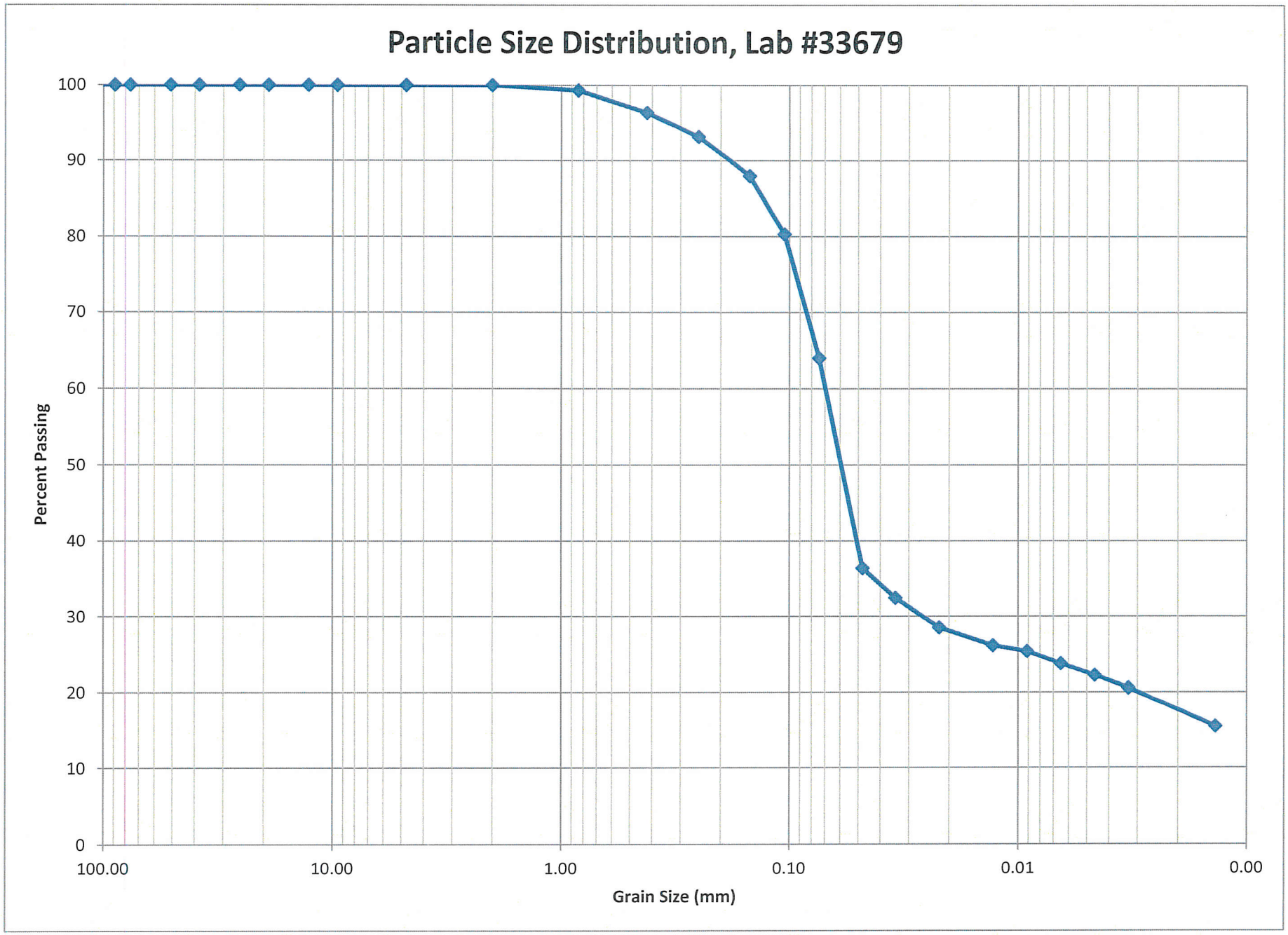
Plasticity Index (ASTM D4318)	
Liquid Limit:	29.8
Plastic Limit:	22.5
Plasticity Index:	7.3

Soil Classification Method	
ASTM D2487:	X
ASTM D2488:	

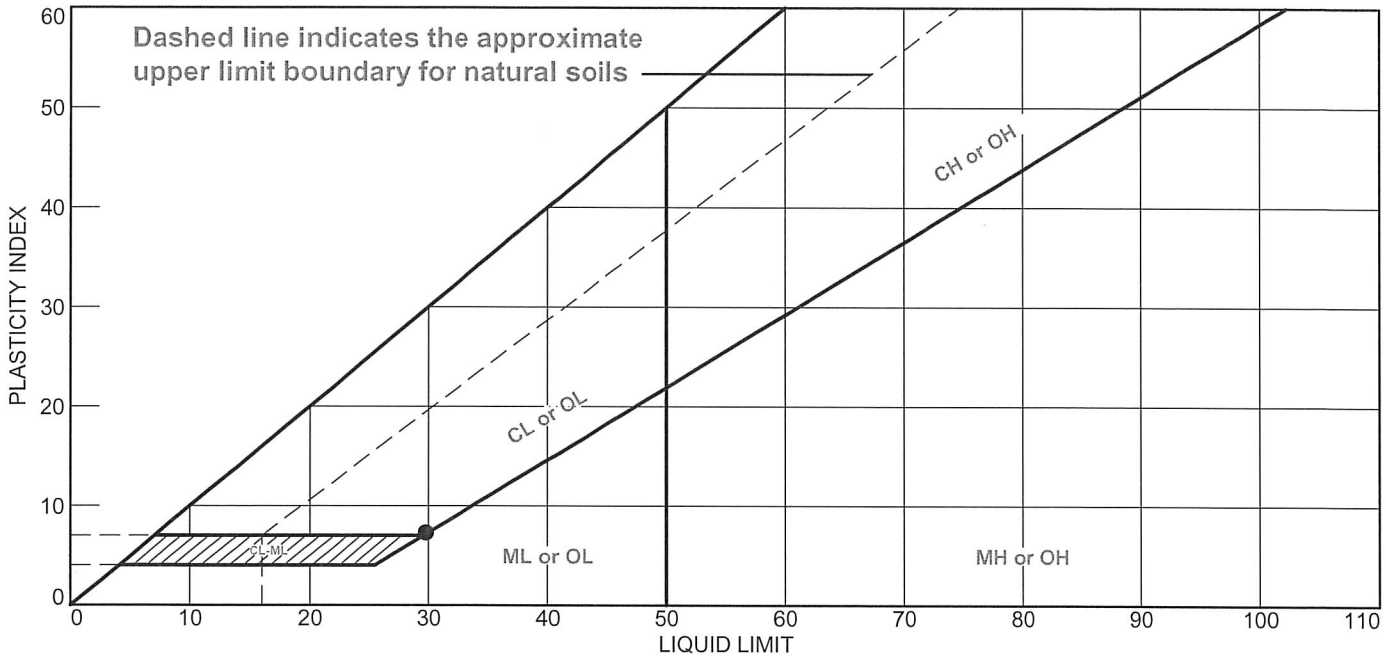
Moisture & Density Results	
As-Received Moisture %:	20.7
Wet Density (pcf):	129.8
Dry Density (pcf):	107.5

Reviewed By: _____

David C. Wilson, P.E. C54734
Senior Principal Engineer


Particle Size Distribution, Lab #33679
Percent Passing
100
90
80
70
60
50
40
30
20
10
0
100.00
10.00
1.00
0.10
0.01
0.00
Grain Size (mm)

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	(#33679)	29.8	22.5	7.3			

Project No. 5015190002.13 **Client:** TerraCosta Consulting Group, Inc.

Project: #3109: NASSCO Floating Dry Dock

Sample Number: B2 **Depth:** 26.5'

Remarks:

amec

Figure #33679

Tested By: MG **Checked By:** LC

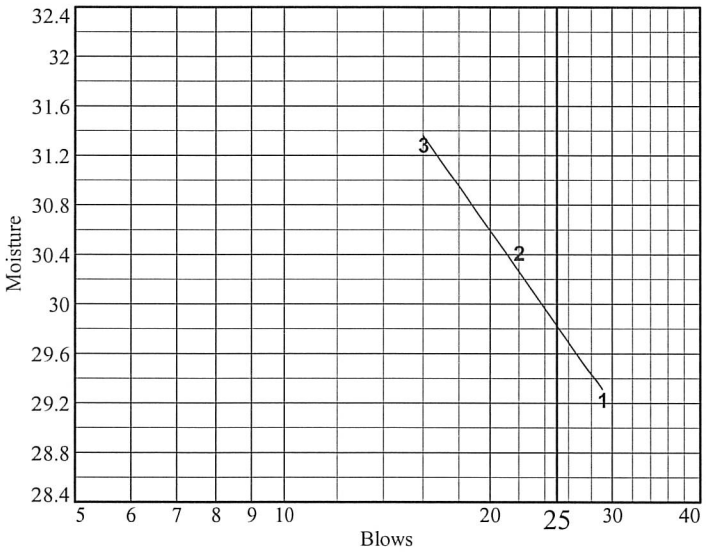
LIQUID AND PLASTIC LIMIT TEST DATA

6/11/2020

Client: TerraCosta Consulting Group, Inc.
Project: #3109: NASSCO Floating Dry Dock
Project Number: 5015190002.13
Depth: 26.5' **Sample Number:** B2
Material Description: (#33679)
Tested by: MG **Checked by:** LC

Liquid Limit Data

Run No.	1	2	3	4	5	6
Wet+Tare	26.52	26.24	24.81			
Dry+Tare	23.79	23.53	22.31			
Tare	14.45	14.62	14.32			
# Blows	29	22	16			
Moisture	29.2	30.4	31.3			



Liquid Limit= 29.8
Plastic Limit= 22.5
Plasticity Index= 7.3

Plastic Limit Data

Run No.	1	2	3	4	
Wet+Tare	21.05	19.29			
Dry+Tare	19.78	17.79			
Tare	14.22	11.03			
Moisture	22.8	22.2			

wood.

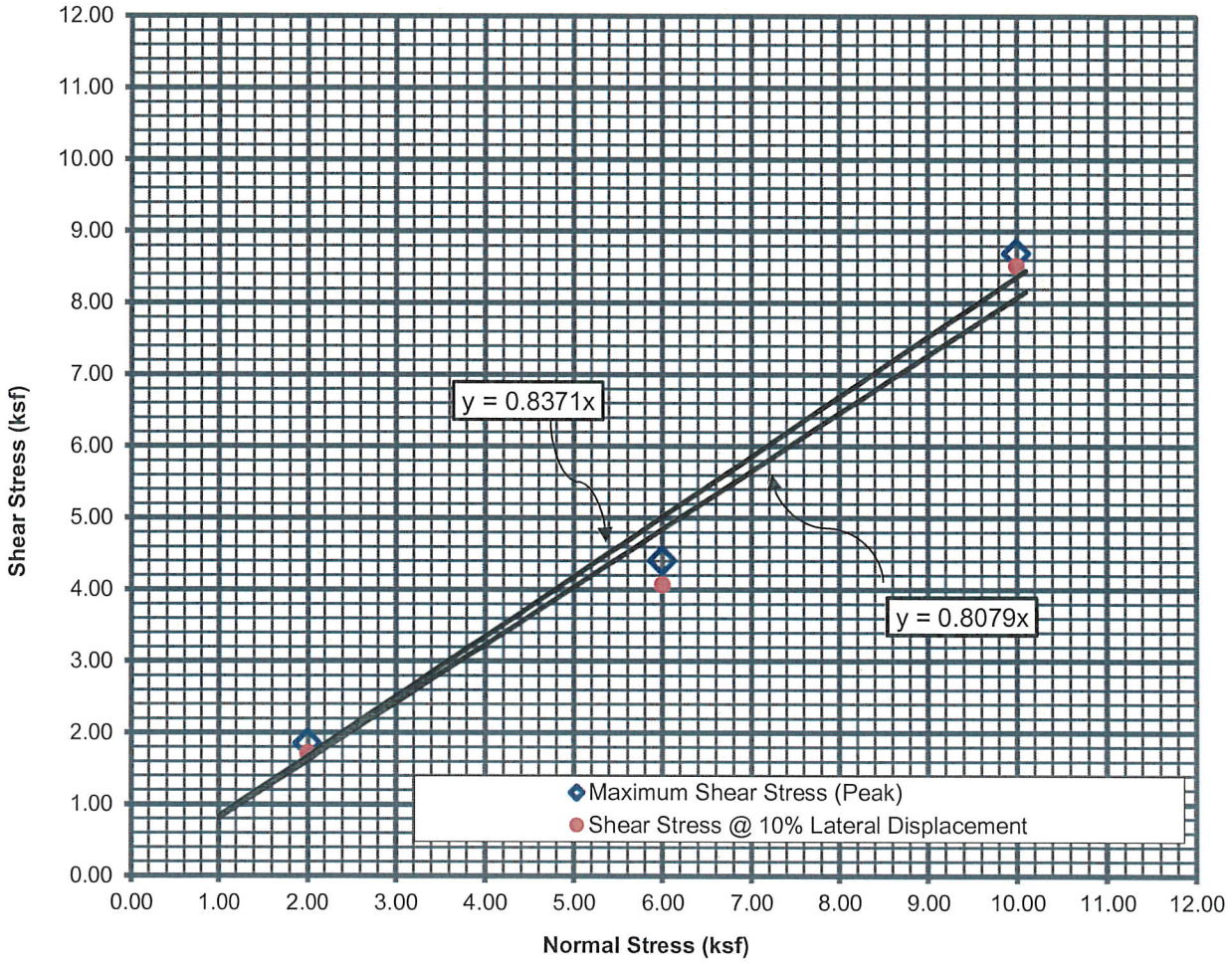
DIRECT SHEAR TEST

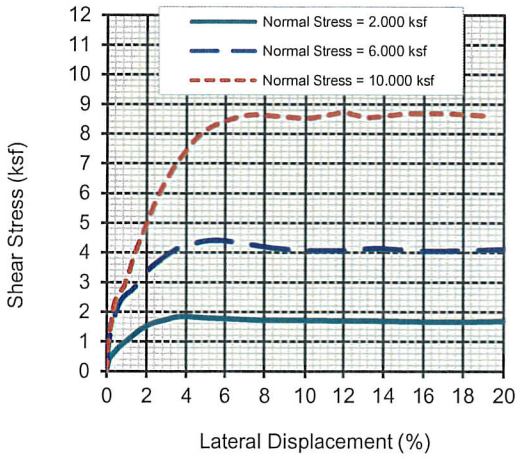
(AASHTO-T236)

Project Name:	Terracosta - NASSCO Floating Dry Dock					*Project No.:*	5015-19-0002.13
Boring No.:	B-2	*Sample No.:*	33679	*Depth:*	26.5'	*Date:*	6/2/2020
Soil Description:	Sandy Lean Clay, CL					*Tested By:*	M. Gibson

			Before Consolidation			After Consolidation		
			Load 1	Load 2	Load 3	Load 1	Load 2	Load 3
Normal Stress, ksf: 2.000, 6.000, 10.000		Wt of Soil & Ring, gr:	200.56	200.35	201.89	200.17	199.45	200.10
		Weight of Ring, gr:	45.71	46.90	45.65	45.71	46.90	45.65
Shear Rate, in/min: 0.02		Ring Diameter, in:	2.412	2.410	2.412	2.412	2.410	2.412
		Height of Sample, in:	1.003	0.987	0.996	0.998	0.972	0.989
As-Received Moisture:	20.7%	Tare No.:				43	113	352
Saturated:	Yes	Wet Weight and Tare, gr:				234.36	232.01	226.69
Intact/Undisturbed:	Yes	Dry Weight and Tare, gr:				207.47	206.11	202.24
Notes:		Tare Weight, gr:				80.58	82.41	77.00
		Moisture Content, %:	20.7%	20.7%	20.7%	21.2%	20.9%	19.5%
		Wet Density, pcf:	128.7	129.8	130.8	129.0	131.1	130.2
		Dry Density, pcf:	106.6	107.6	108.4	106.5	108.4	108.9

Load 1 (KSF): 2.000				Load 2 (KSF): 6.000				Load 3 (KSF): 10.000			
Shear Deflec -tion (in)	Lateral Displace -ment (%)	Load Ring Reading	Shear Stress (KSF)	Shear Deflec -tion (in)	Lateral Displace -ment (%)	Load Ring Reading	Shear Stress (KSF)	Shear Deflec -tion (in)	Lateral Displace -ment (%)	Load Ring Reading	Shear Stress (KSF)
0.003	0.1	54	0.414	0.002	0.1	104	0.798	0.002	0.1	114	0.875
0.009	0.4	82	0.629	0.005	0.2	170	1.304	0.006	0.2	221	1.696
0.016	0.7	110	0.844	0.011	0.5	258	1.980	0.011	0.5	313	2.402
0.028	1.2	145	1.113	0.019	0.8	322	2.471	0.022	0.9	381	2.924
0.041	1.7	183	1.404	0.033	1.4	365	2.801	0.035	1.5	437	4.022
0.056	2.3	212	1.627	0.049	2.0	398	3.366	0.049	2.0	484	4.974
0.070	2.9	225	1.727	0.066	2.7	422	3.770	0.063	2.6	521	5.925
0.082	3.4	237	1.819	0.078	3.2	436	4.006	0.087	3.6	566	7.083
0.095	3.9	242	1.857	0.096	4.0	450	4.241	0.121	5.0	606	8.111
0.105	4.4	239	1.834	0.131	5.4	460	4.409	0.168	7.0	625	8.600
0.123	5.1	235	1.803	0.171	7.1	453	4.292	0.202	8.4	625	8.600
0.182	7.6	226	1.734	0.202	8.4	445	4.157	0.241	10.0	622	8.523
0.240	10.0	224	1.719	0.242	10.0	440	4.073	0.270	11.2	626	8.626
0.297	12.3	222	1.703	0.286	11.9	440	4.073	0.290	12.0	629	8.703
0.331	13.7	222	1.703	0.332	13.8	444	4.140	0.320	13.3	623	8.549
0.381	15.8	219	1.680	0.381	15.8	439	4.056	0.364	15.1	628	8.677
0.432	17.9	218	1.673	0.435	18.0	440	4.073	0.413	17.1	628	8.677
0.488	20.2	222	1.703	0.489	20.3	443	4.123	0.464	19.3	625	8.600
Max. Shear Stress, ksf:			1.857				4.409				8.703
Lat.Displmt@Max Stress,%.:			3.9				5.4				12.0





Boring No.:	B-2
Sample No.:	33679
Sample Depth :	26.5'
Soil Type:	Sandy Lean Clay, CL
Sample Conditions:	Saturated; Intact
Shear Rate:	0.02
As-Received Dry Density (PCF):	107.5
As- Received Moisture Content (%):	20.7

	◇	●
Cohesion (PSF):	0	0
Friction Angle (Degrees):	40	39

wood.	DIRECT SHEAR TEST	Project No.
	Terracosta	5015-19-0002.13
	NASSCO Floating Dry Dock	

wood.
9177 Sky Park Court, San Diego, CA 92123
Phone: 858-278-3600 Fax: 858-278-5300

Particle Size Distribution/Soil Classification

ASTM D6913 & ASTM D7928

Project Name:	NASSCO Floating Dry Dock	Lab #:	33680
Project #:	5015-19-0002.13		
Sampled By:	MM	Date Sampled:	5/18/2020
Tested By:	MG/LC/BL	Date Tested:	6/10 - 6/12/2020
Reviewed By:	M. Gibson	Date Reviewed:	6/12/2020

Sample Location: B-2 @ 41.5'

Soil Type: Silty Sand, SM

Particle Size Distribution, Lab #33680

Sieve Size	Sieve Opening/ Particle Size (mm)	Percent Passing
4"	101.60	100
3-1/2"	88.90	100
3"	76.20	100
2"	50.80	100
1-1/2"	38.10	100
1"	25.40	100
3/4"	19.00	100
1/2"	12.70	100
3/8"	9.51	100
#4	4.76	99.4
#10	2.00	95.7
#20	0.841	86.9
#40	0.420	77.8
#60	0.250	66.7
#100	0.149	53.3
#140	0.105	41.2
#200	0.074	32.2
Hydrometer Test Result	0.0496	25.22
	0.0359	19.37
	0.0231	15.71
	0.0135	12.79
	0.0096	11.69
	0.0068	10.91
	0.0048	10.54
	0.0034	9.35
	0.0014	6.77

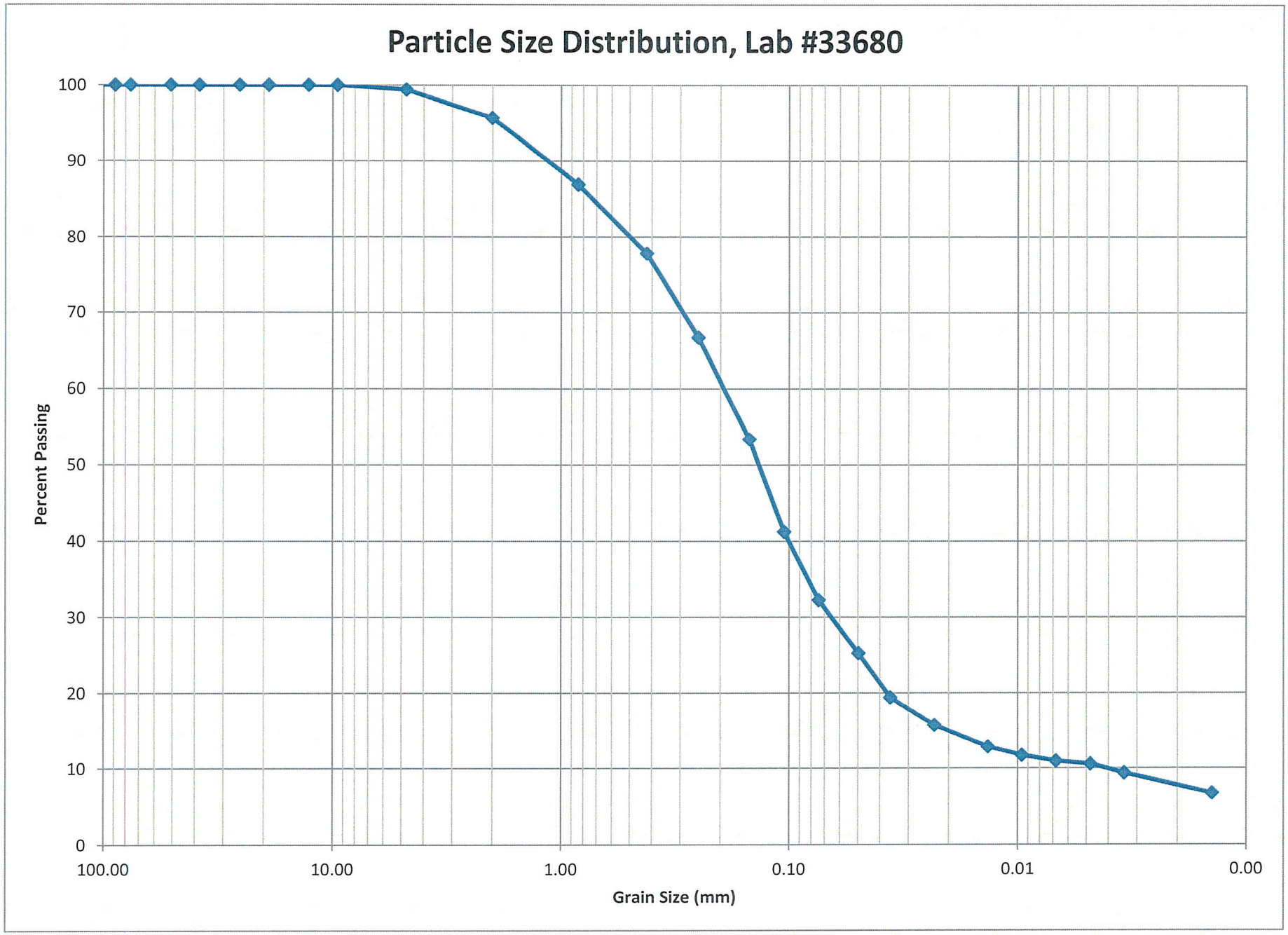
Plasticity Index (ASTM D4318)	
Liquid Limit:	NV
Plastic Limit:	NP
Plasticity Index:	--

Soil Classification Method	
ASTM D2487:	X
ASTM D2488:	

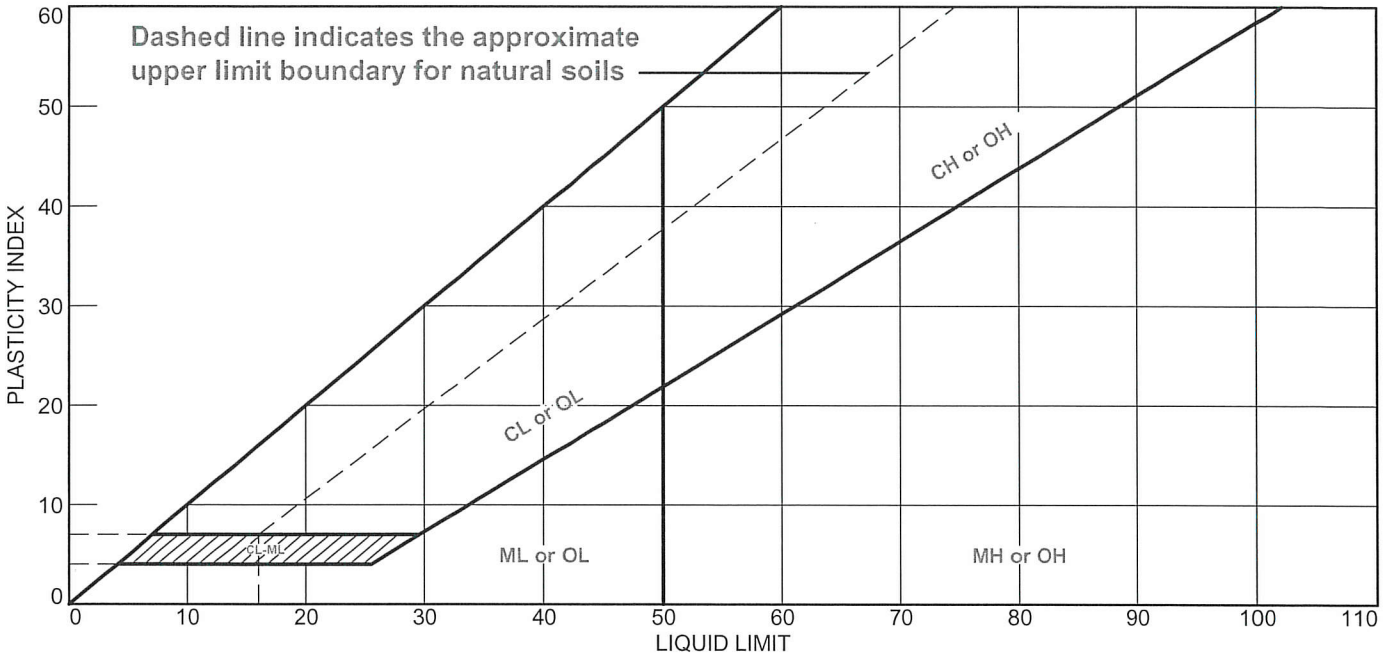
Moisture & Density Results	
As-Received Moisture %:	15.4
Wet Density (pcf):	130.7
Dry Density (pcf):	113.3

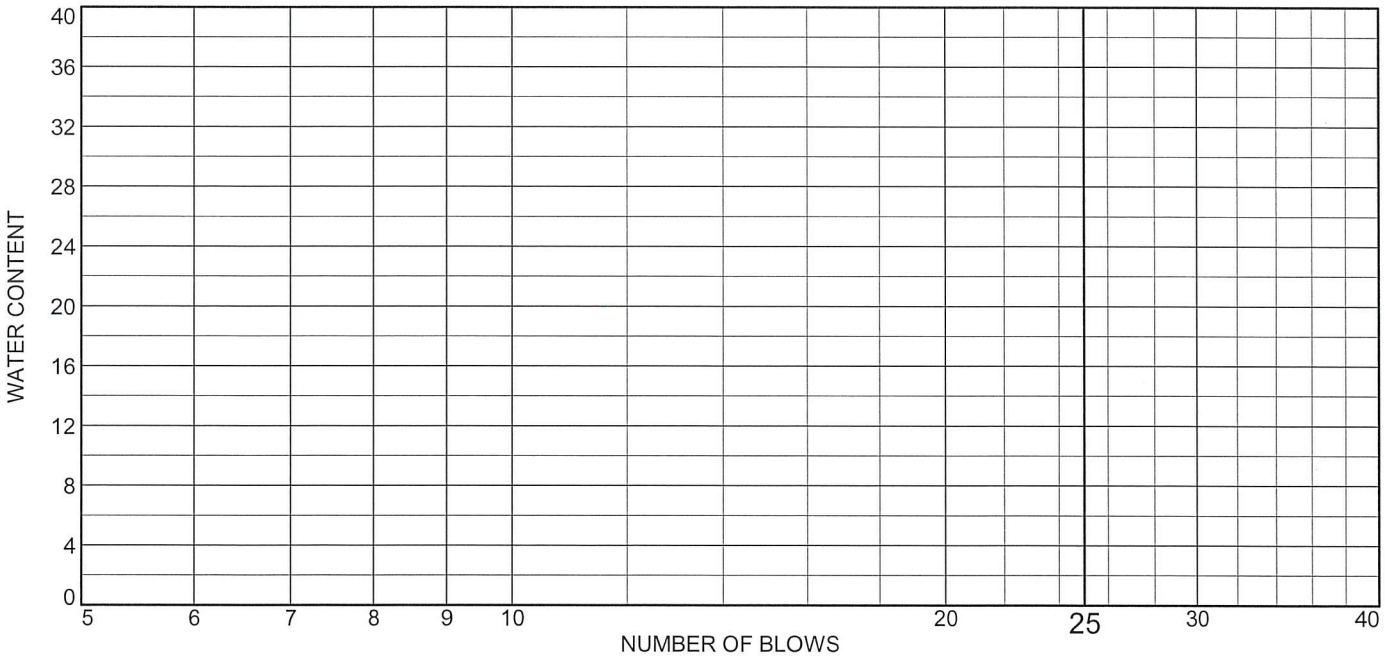
Reviewed By: _____

David C. Wilson, P.E. C54734
Senior Principal Engineer


Particle Size Distribution, Lab #33680
Percent Passing
100
90
80
70
60
50
40
30
20
10
0
100.00
10.00
1.00
0.10
0.01
0.00
Grain Size (mm)

LIQUID AND PLASTIC LIMITS TEST REPORT





	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	(#33680)	NV	NP	NP			

Project No. 5015190002.13 **Client:** TerraCosta Consulting Group, Inc.

Project: #3109: NASSCO Floating Dry Dock

Sample Number: B2 **Depth:** 41.5'

Remarks:

● Sample slid in bowl, surface tearing; tried addign water/ With some surfcae tearing, was able to effictively test = 7 drops

amec

Figure #33680

Tested By: MG **Checked By:** LC DW

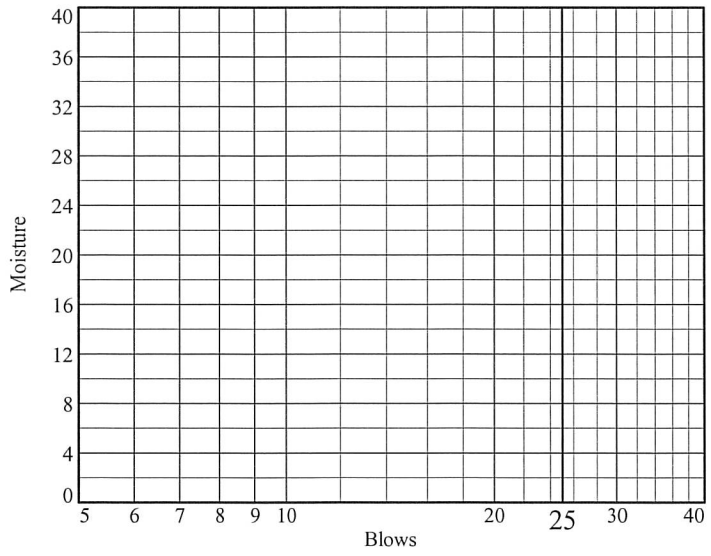
LIQUID AND PLASTIC LIMIT TEST DATA

6/11/2020

Client: TerraCosta Consulting Group, Inc.
Project: #3109: NASSCO Floating Dry Dock
Project Number: 5015190002.13
Depth: 41.5' **Sample Number:** B2
Material Description: (#33680)
Tested by: MG **Checked by:** LC
Testing Remarks: Sample slid in bowl, surface tearing; tried addign water/ With some surfcae tearing, was able to effictively test = 7 drops

Liquid Limit Data

Run No.	1	2	3	4	5	6
Wet+Tare						
Dry+Tare						
Tare						
# Blows						
Moisture						



Liquid Limit= NV
Plastic Limit= NP
Plasticity Index= NP

Plastic Limit Data

Run No.	1	2	3	4	
Wet+Tare					
Dry+Tare					
Tare					
Moisture					

wood.

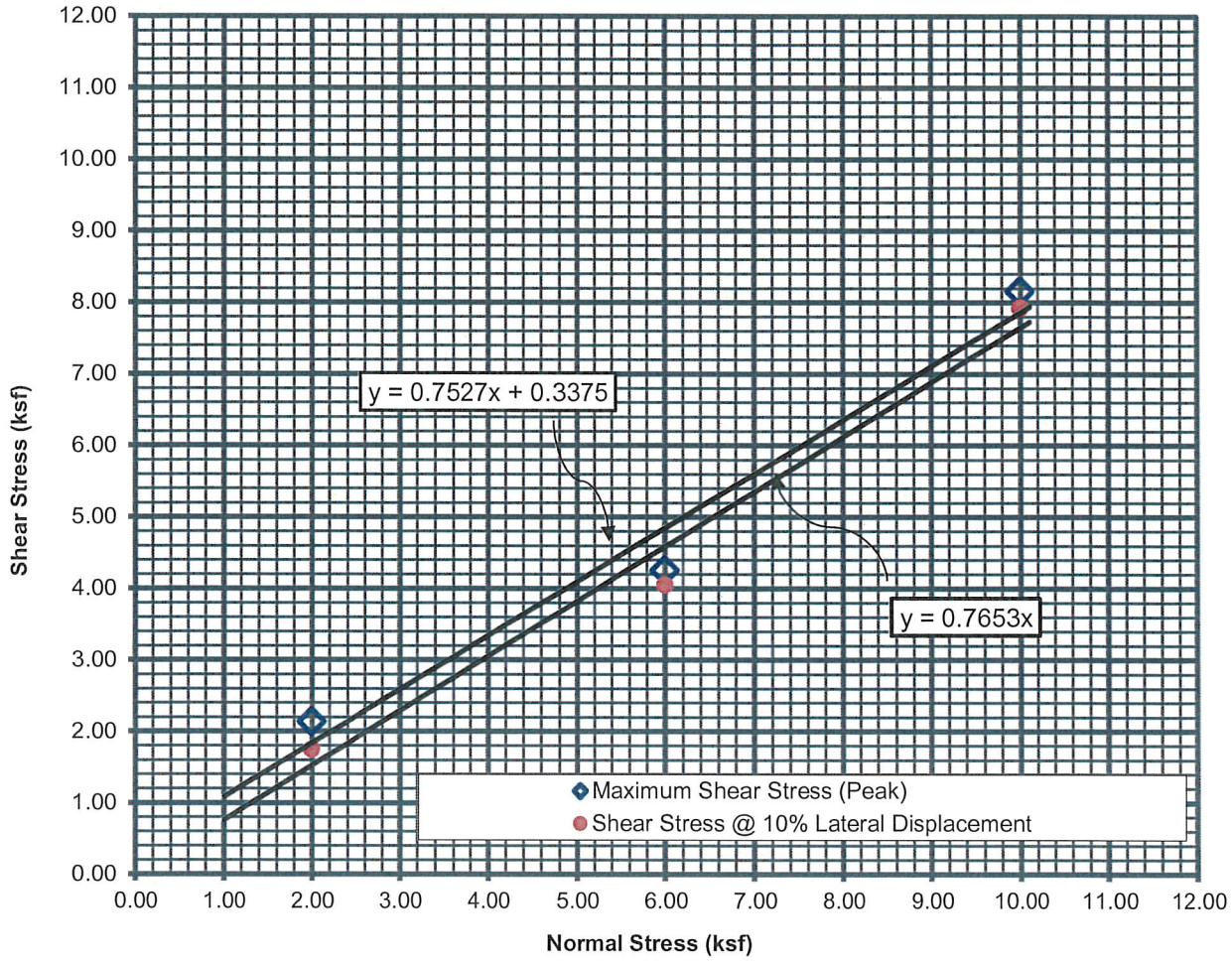
DIRECT SHEAR TEST

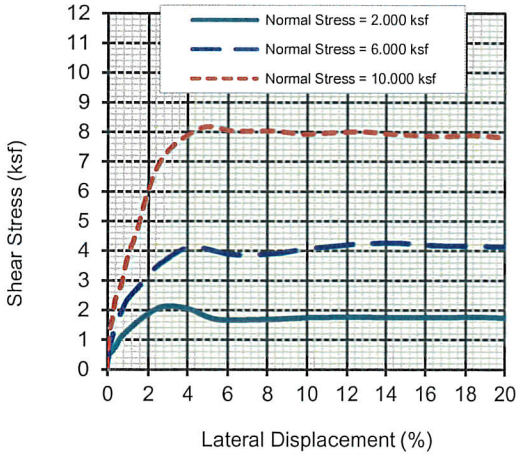
(AASHTO-T236)

Project Name:	Terracosta - NASSCO Floating Dry Dock					*Project No.:*	5015-19-0002.13
Boring No.:	B-2	*Sample No.:*	33680	*Depth:*	41.5'	*Date:*	6/4/2020
Soil Description:	Silty Sand, SM					*Tested By:*	B. Lewis/M. Gibson

			Before Consolidation			After Consolidation		
			Load 1	Load 2	Load 3	Load 1	Load 2	Load 3
Normal Stress, ksf:		Wt of Soil & Ring, gr:	200.33	202.46	204.66	201.04	202.25	204.79
2.000, 6.000, 10.000		Weight of Ring, gr:	45.83	46.21	46.03	45.83	46.21	46.03
Shear Rate, in/min:		Ring Diameter, in:	2.412	2.412	2.414	2.412	2.412	2.414
0.02		Height of Sample, in:	0.995	0.995	1.003	0.989	0.990	0.997
As-Received Moisture:	15.4%	Tare No.:				90	122	45
Saturated:	Yes	Wet Weight and Tare, gr:				222.28	225.85	229.35
Intact/Undisturbed:	Yes	Dry Weight and Tare, gr:				197.36	200.43	203.88
Notes:		Tare Weight, gr:				81.18	80.81	80.16
		Moisture Content, %:	15.4%	15.4%	15.4%	21.4%	21.3%	20.6%
		Wet Density, pcf:	129.5	130.9	131.6	130.8	131.4	132.5
		Dry Density, pcf:	112.2	113.5	114.1	107.7	108.4	109.9

Load 1 (KSF): 2.000				Load 2 (KSF): 6.000				Load 3 (KSF): 10.000			
Shear Deflec -tion (in)	Lateral Displace -ment (%)	Load Ring Reading	Shear Stress (KSF)	Shear Deflec -tion (in)	Lateral Displace -ment (%)	Load Ring Reading	Shear Stress (KSF)	Shear Deflec -tion (in)	Lateral Displace -ment (%)	Load Ring Reading	Shear Stress (KSF)
0.002	0.1	60	0.460	0.002	0.1	87	0.668	0.002	0.1	148	1.136
0.010	0.4	100	0.767	0.006	0.2	139	1.067	0.006	0.2	218	1.673
0.016	0.7	141	1.082	0.009	0.4	186	1.427	0.010	0.4	309	2.371
0.029	1.2	188	1.443	0.016	0.7	248	1.903	0.017	0.7	375	2.878
0.042	1.7	229	1.757	0.024	1.0	308	2.363	0.025	1.0	427	3.854
0.056	2.3	263	2.018	0.036	1.5	358	2.747	0.035	1.5	473	4.628
0.066	2.7	276	2.118	0.050	2.1	389	3.214	0.048	2.0	522	5.951
0.077	3.2	279	2.141	0.066	2.7	413	3.618	0.062	2.6	560	6.928
0.100	4.1	265	2.033	0.101	4.2	443	4.123	0.082	3.4	586	7.597
0.127	5.3	224	1.719	0.151	6.3	428	3.871	0.118	4.9	608	8.163
0.152	6.3	218	1.673	0.200	8.3	430	3.905	0.152	6.3	603	8.034
0.202	8.4	222	1.703	0.240	10.0	439	4.056	0.201	8.3	603	8.034
0.243	10.1	228	1.750	0.299	12.4	449	4.224	0.240	10.0	599	7.931
0.295	12.2	232	1.780	0.330	13.7	451	4.258	0.300	12.4	602	8.008
0.348	14.4	229	1.757	0.356	14.8	451	4.258	0.348	14.4	599	7.931
0.401	16.6	229	1.757	0.401	16.6	446	4.174	0.401	16.6	596	7.854
0.447	18.5	231	1.773	0.449	18.6	445	4.157	0.450	18.7	597	7.880
0.500	20.7	226	1.734	0.503	20.9	443	4.123	0.502	20.8	592	7.751
Max. Shear Stress, ksf:			2.141				4.258				8.163
Lat.Displmt@Max Stress,%.:			3.2				13.7				4.9





Boring No.:	B-2
Sample No.:	33680
Sample Depth :	41.5'
Soil Type:	Silty Sand, SM
Sample Conditions:	Saturated; Intact
Shear Rate:	0.02
As-Received Dry Density (PCF):	113.3
As- Received Moisture Content (%):	15.4

	◇	●
Cohesion (PSF):	337	0
Friction Angle (Degrees):	37	37

wood.	DIRECT SHEAR TEST	Project No.
	Terracosta	5015-19-0002.13
	NASSCO Floating Dry Dock	

wood.
9177 Sky Park Court, San Diego, CA 92123
Phone: 858-278-3600 Fax: 858-278-5300

Particle Size Distribution/Soil Classification

ASTM D6913 & ASTM D7928

Project Name:	NASSCO Floating Dry Dock	Lab #:	33681
Project #:	5015-19-0002.13		
Sampled By:	MM	Date Sampled:	5/18/2020
Tested By:	MG/LC/BL	Date Tested:	6/10 - 6/12/2020
Reviewed By:	M. Gibson	Date Reviewed:	6/12/2020

Sample Location: B-5 @ 25'

Soil Type: Fat Clay, CH

Particle Size Distribution, Lab #33681

Sieve Size	Sieve Opening/ Particle Size (mm)	Percent Passing
4"	101.60	100
3-1/2"	88.90	100
3"	76.20	100
2"	50.80	100
1-1/2"	38.10	100
1"	25.40	100
3/4"	19.00	100
1/2"	12.70	100
3/8"	9.51	100
#4	4.76	99.1
#10	2.00	98.4
#20	0.841	97.6
#40	0.420	97.2
#60	0.250	96.7
#100	0.149	95.6
#140	0.105	94.3
#200	0.074	90.7
Hydrometer Test Result	0.0371	64.66
	0.0275	59.14
	0.0183	53.01
	0.0110	46.88
	0.0080	43.20
	0.0057	40.78
	0.0041	37.02
	0.0030	34.52
	0.0013	29.30

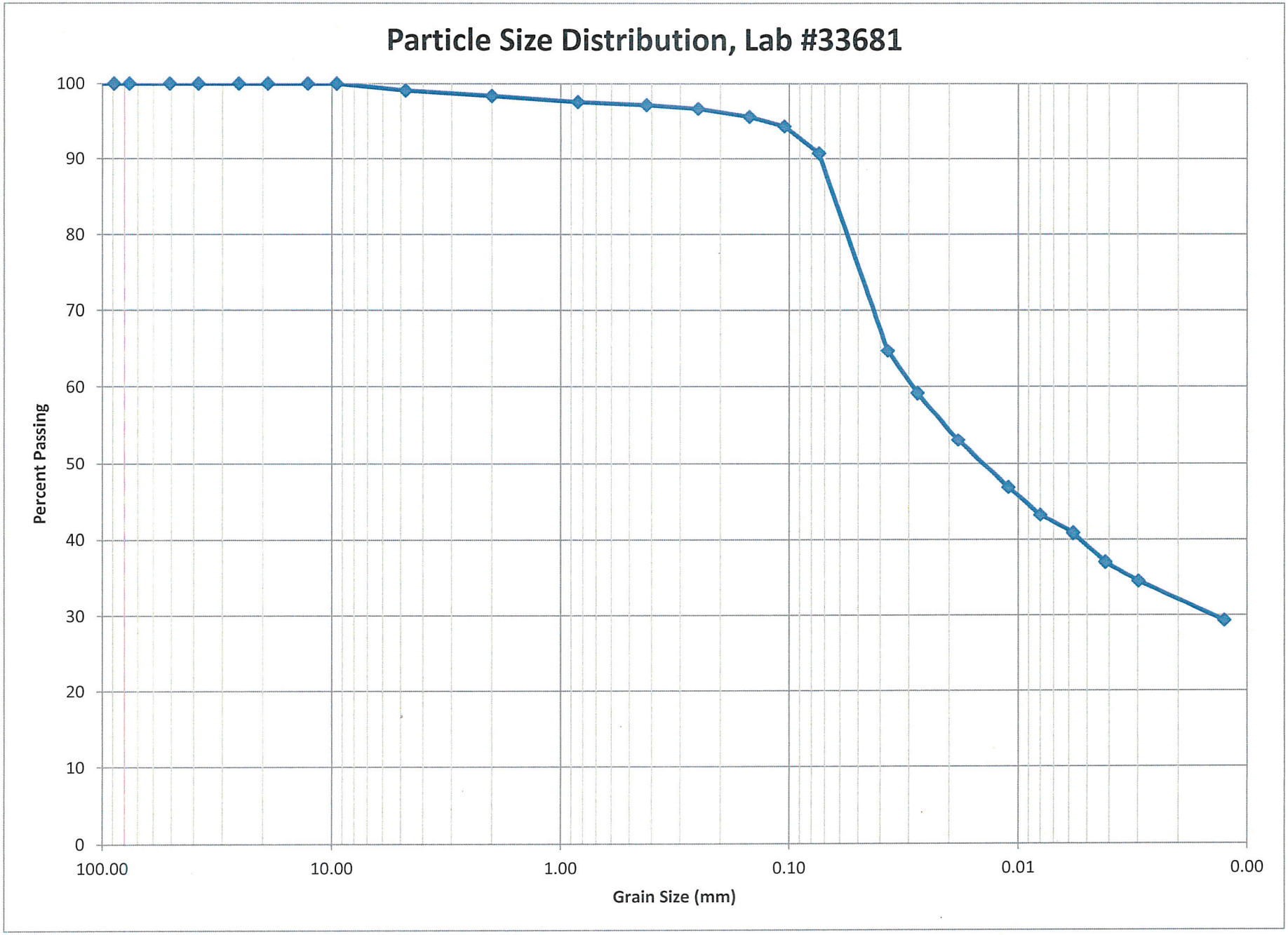
Plasticity Index (ASTM D4318)	
Liquid Limit:	67.3
Plastic Limit:	24.7
Plasticity Index:	42.6

Soil Classification Method	
ASTM D2487:	X
ASTM D2488:	

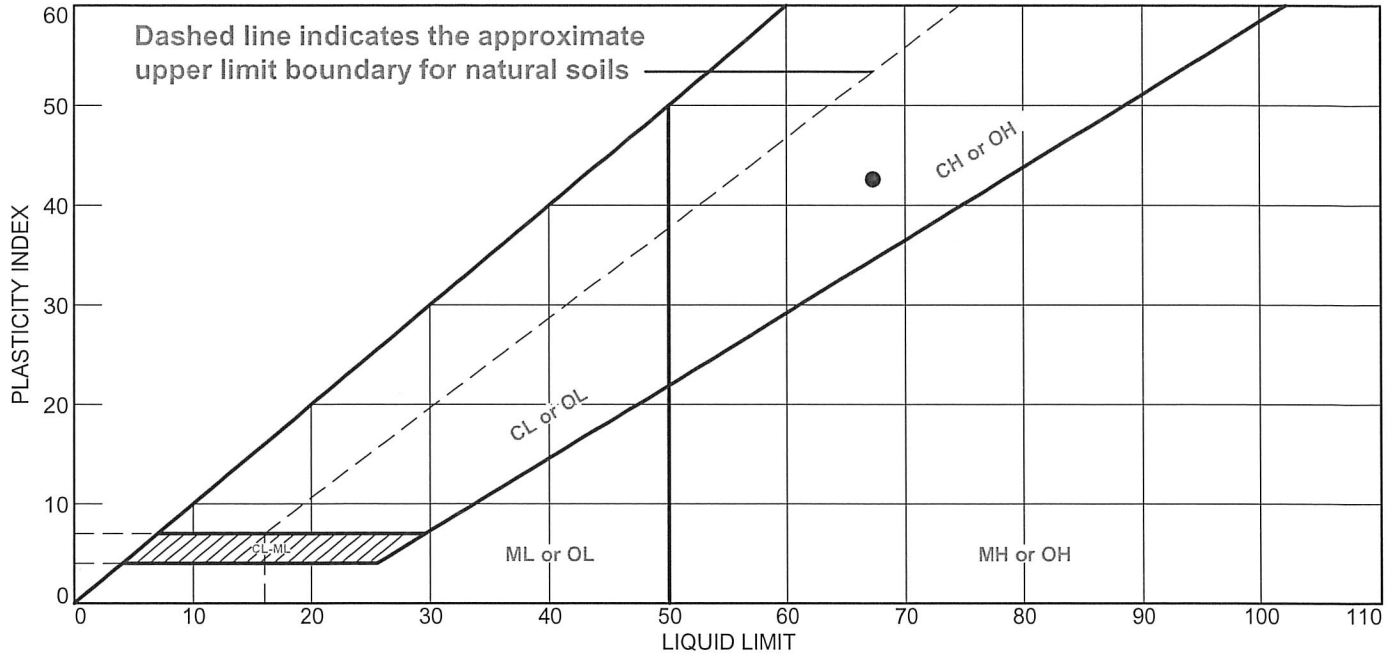
Moisture & Density Results	
As-Received Moisture %:	28.2
Wet Density (pcf):	120.8
Dry Density (pcf):	94.2

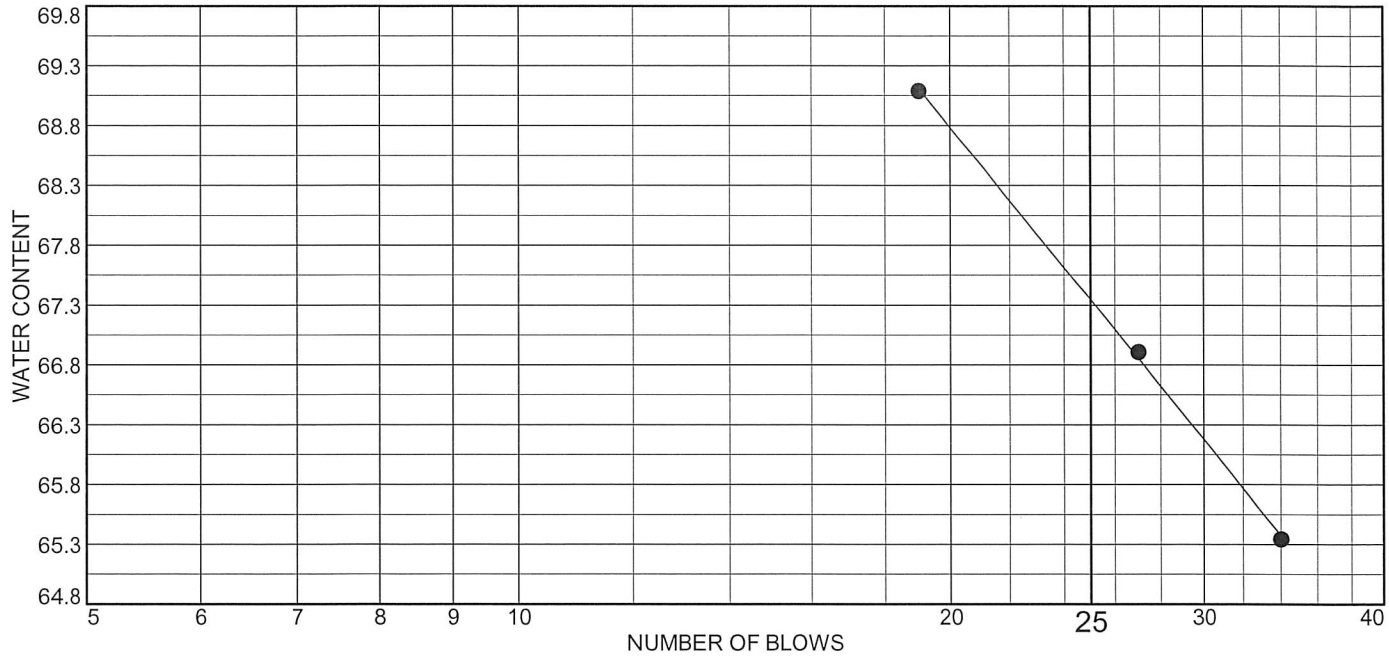
Reviewed By: _____

David C. Wilson, P.E. C54734
Senior Principal Engineer


Particle Size Distribution, Lab #33681
Percent Passing
100
90
80
70
60
50
40
30
20
10
0
100.00
10.00
1.00
0.10
0.01
0.00
Grain Size (mm)

LIQUID AND PLASTIC LIMITS TEST REPORT





	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	(#33681)	67.3	24.7	42.6			

Project No. 5015190002.13 **Client:** TerraCosta Consulting Group, Inc.

Project: #3109: NASSCO Floating Dry Dock

Sample Number: B5 **Depth:** 25'

Remarks:

amec

Figure #33681

Tested By: MG **Checked By:** LC

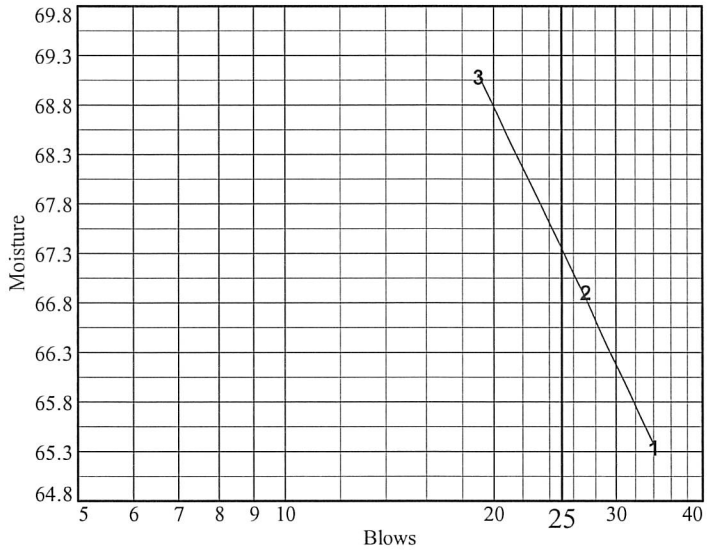
LIQUID AND PLASTIC LIMIT TEST DATA

6/11/2020

Client: TerraCosta Consulting Group, Inc.
Project: #3109: NASSCO Floating Dry Dock
Project Number: 5015190002.13
Depth: 25'
Sample Number: B5
Material Description: (#33681)
Tested by: MG
Checked by: LC

Liquid Limit Data

Run No.	1	2	3	4	5	6
Wet+Tare	21.93	23.69	23.47			
Dry+Tare	18.97	19.99	19.76			
Tare	14.44	14.46	14.39			
# Blows	34	27	19			
Moisture	65.3	66.9	69.1			



Liquid Limit= 67.3
Plastic Limit= 24.7
Plasticity Index= 42.6

Plastic Limit Data

Run No.	1	2	3	4	
Wet+Tare	17.93	18.65			
Dry+Tare	16.57	17.12			
Tare	11.04	10.94			
Moisture	24.6	24.8			

wood.

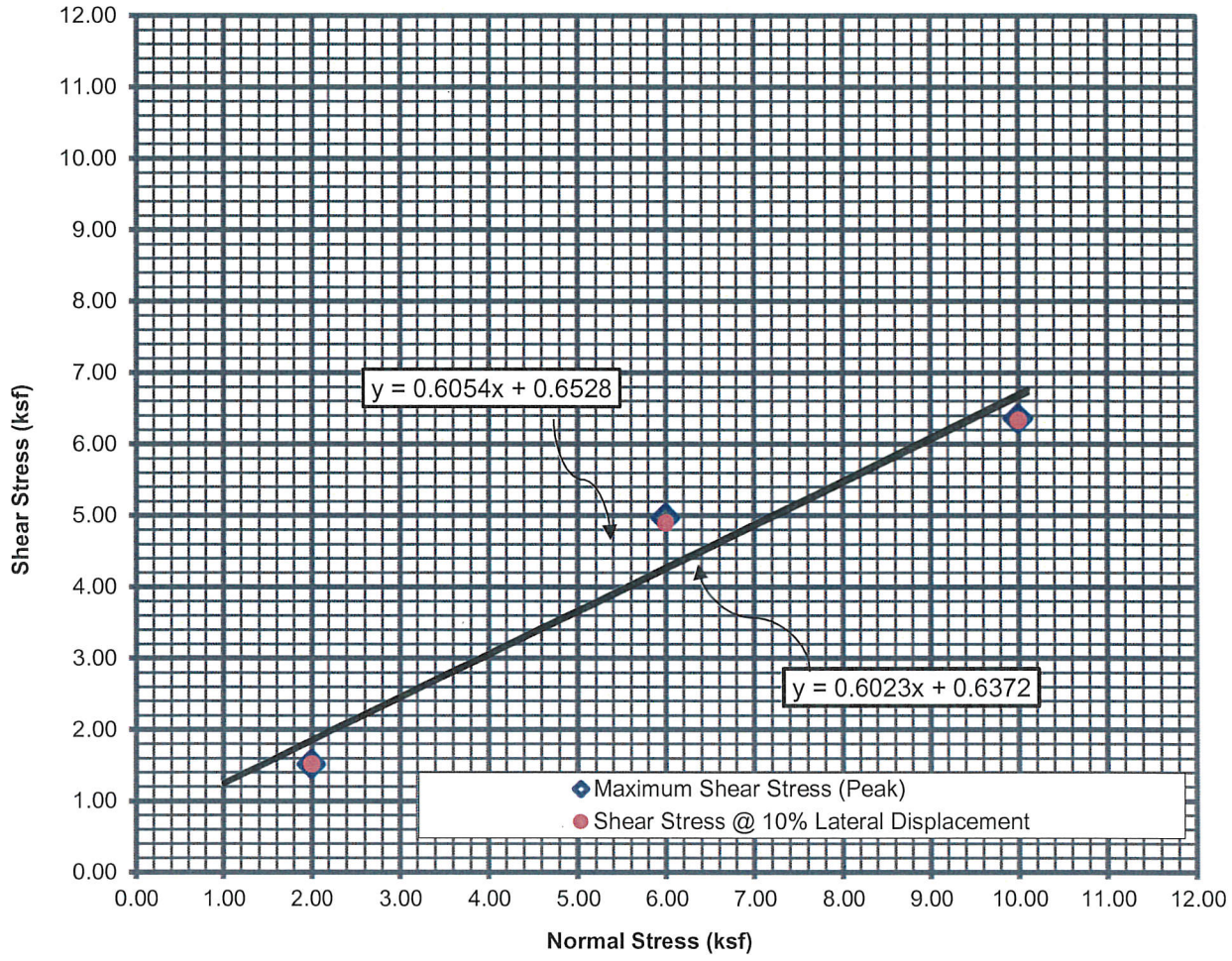
DIRECT SHEAR TEST

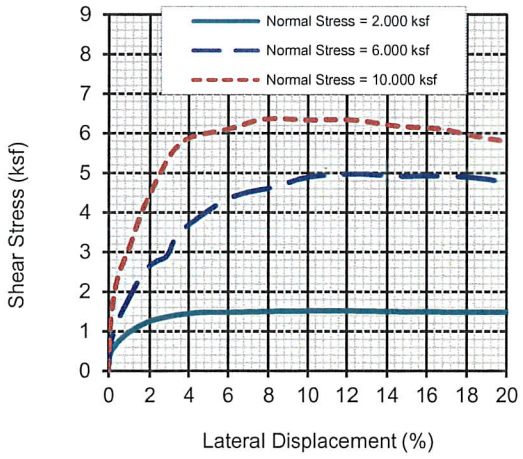
(AASHTO-T236)

Project Name:	Terracosta - NASSCO Floating Dry Dock					*Project No.:*	5015-19-0002.13
Boring No.:	B-5	*Sample No.:*	33681	*Depth:*	25'	*Date:*	6/5/2020
Soil Description:	Fat Clay, CH					*Tested By:*	B. Lewis/M. Gibson

		Before Consolidation			After Consolidation		
		Load 1	Load 2	Load 3	Load 1	Load 2	Load 3
Normal Stress, ksf:	Wt of Soil & Ring, gr:	193.57	193.19	188.51	192.74	192.87	187.22
2.000, 6.000, 10.000	Weight of Ring, gr:	46.74	46.11	45.98	46.74	46.11	45.98
Shear Rate, in/min:	Ring Diameter, in:	2.412	2.411	2.413	2.412	2.411	2.413
0.02	Height of Sample, in:	1.002	1.011	0.999	0.986	0.994	0.984
As-Received Moisture: 28.2%	Tare No.:				87A	97	Z-11
Saturated: Yes	Wet Weight and Tare, gr:				263.08	208.03	220.62
Intact/Undisturbed: Yes	Dry Weight and Tare, gr:				230.95	180.55	189.98
Notes:	Tare Weight, gr:				118.71	76.56	85.29
	Moisture Content, %:	28.2%	28.2%	28.2%	28.6%	26.4%	29.3%
	Wet Density, pcf:	122.2	121.4	118.9	123.5	123.2	119.6
	Dry Density, pcf:	95.3	94.7	92.7	96.0	97.4	92.5

Load 1 (KSF): 2.000				Load 2 (KSF): 6.000				Load 3 (KSF): 10.000			
Shear Deflec -tion (in)	Lateral Displace -ment (%)	Load Ring Reading	Shear Stress (KSF)	Shear Deflec -tion (in)	Lateral Displace -ment (%)	Load Ring Reading	Shear Stress (KSF)	Shear Deflec -tion (in)	Lateral Displace -ment (%)	Load Ring Reading	Shear Stress (KSF)
0.002	0.1	55	0.422	0.003	0.1	91	0,698	0.002	0.1	128	0.982
0.009	0.4	88	0.675	0.008	0.3	139	1.067	0.005	0.2	214	1.642
0.017	0.7	111	0.852	0.014	0.6	183	1.404	0.009	0.4	280	2.149
0.025	1.0	129	0.990	0.024	1.0	238	1.826	0.015	0.6	338	2.594
0.039	1.6	153	1.174	0.034	1.4	291	2.233	0.026	1.1	387	3.181
0.053	2.2	168	1.289	0.045	1.9	337	2.586	0.037	1.5	429	3.888
0.068	2.8	178	1.366	0.056	2.3	360	2.762	0.050	2.1	466	4.510
0.083	3.4	185	1.420	0.070	2.9	381	2.924	0.065	2.7	490	5.128
0.098	4.1	190	1.458	0.082	3.4	402	3.433	0.079	3.3	508	5.591
0.119	4.9	194	1.489	0.100	4.1	420	3.736	0.100	4.1	520	5.899
0.149	6.2	194	1.489	0.148	6.1	458	4.376	0.150	6.2	529	6.131
0.200	8.3	197	1.512	0.203	8.4	475	4.662	0.190	7.9	538	6.362
0.242	10.0	198	1.519	0.243	10.1	481	4.896	0.243	10.1	537	6.337
0.299	12.4	198	1.519	0.300	12.4	484	4.974	0.297	12.3	537	6.337
0.351	14.6	196	1.504	0.351	14.6	482	4.922	0.351	14.6	531	6.182
0.403	16.7	195	1.496	0.400	16.6	482	4.922	0.404	16.8	528	6.105
0.449	18.6	194	1.489	0.448	18.6	480	4.871	0.451	18.7	520	5.899
0.500	20.7	194	1.489	0.504	20.9	476	4.679	0.500	20.7	514	5.745
Max. Shear Stress, ksf:			1.519				4.974				6.362
Lat.Displmt@Max Stress,%.:			10.0				12.4				7.9





Boring No.:	B-5
Sample No.:	33681
Sample Depth :	25'
Soil Type:	Fat Clay, CH
Sample Conditions:	Saturated; Intact
Shear Rate:	0.02
As-Received Dry Density (PCF):	94.2
As- Received Moisture Content (%):	28.2

	◇	●
Cohesion (PSF):	653	637
Friction Angle (Degrees):	31	31

wood.	DIRECT SHEAR TEST	Project No.
	Terracosta	5015-19-0002.13
	NASSCO Floating Dry Dock	

wood.
9177 Sky Park Court, San Diego, CA 92123
Phone: 858-278-3600 Fax: 858-278-5300

Particle Size Distribution/Soil Classification

ASTM D6913 & ASTM D7928

Project Name:	NASSCO Floating Dry Dock	Lab #:	33682
Project #:	5015-19-0002.13		
Sampled By:	MM	Date Sampled:	5/18/2020
Tested By:	MG/LC/BL	Date Tested:	6/10 - 6/12/2020
Reviewed By:	M. Gibson	Date Reviewed:	6/12/2020

Sample Location: B-6 @ 44'

Soil Type: Lean Clay, CL

Particle Size Distribution, Lab #33682

Sieve Size	Sieve Opening/ Particle Size (mm)	Percent Passing
4"	101.60	100
3-1/2"	88.90	100
3"	76.20	100
2"	50.80	100
1-1/2"	38.10	100
1"	25.40	100
3/4"	19.00	100
1/2"	12.70	100
3/8"	9.51	100
#4	4.76	100
#10	2.00	100
#20	0.841	99.7
#40	0.420	99.5
#60	0.250	99.1
#100	0.149	98.4
#140	0.105	96.3
#200	0.074	90.9
Hydrometer Test Result	0.0351	65.73
	0.0280	53.10
	0.0195	40.47
	0.0121	30.13
	0.0086	27.80
	0.0063	23.21
	0.0045	21.44
	0.0032	20.51
	0.0014	7.61

Plasticity Index (ASTM D4318)	
Liquid Limit:	42.5
Plastic Limit:	27.2
Plasticity Index:	15.3

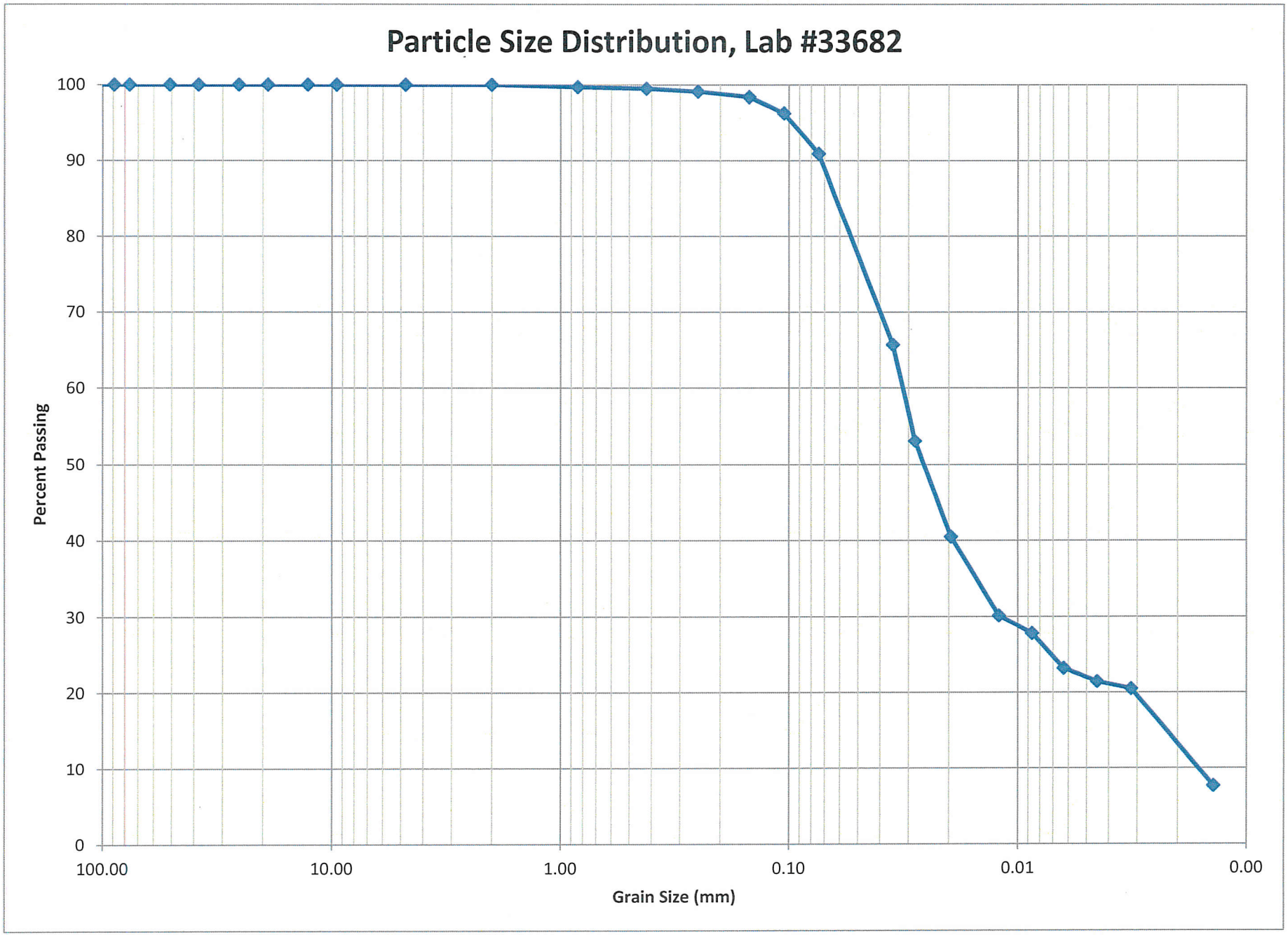
Soil Classification Method	
ASTM D2487:	X
ASTM D2488:	

Moisture & Density Results	
As-Received Moisture %:	28.5
Wet Density (pcf):	117.5
Dry Density (pcf):	91.4

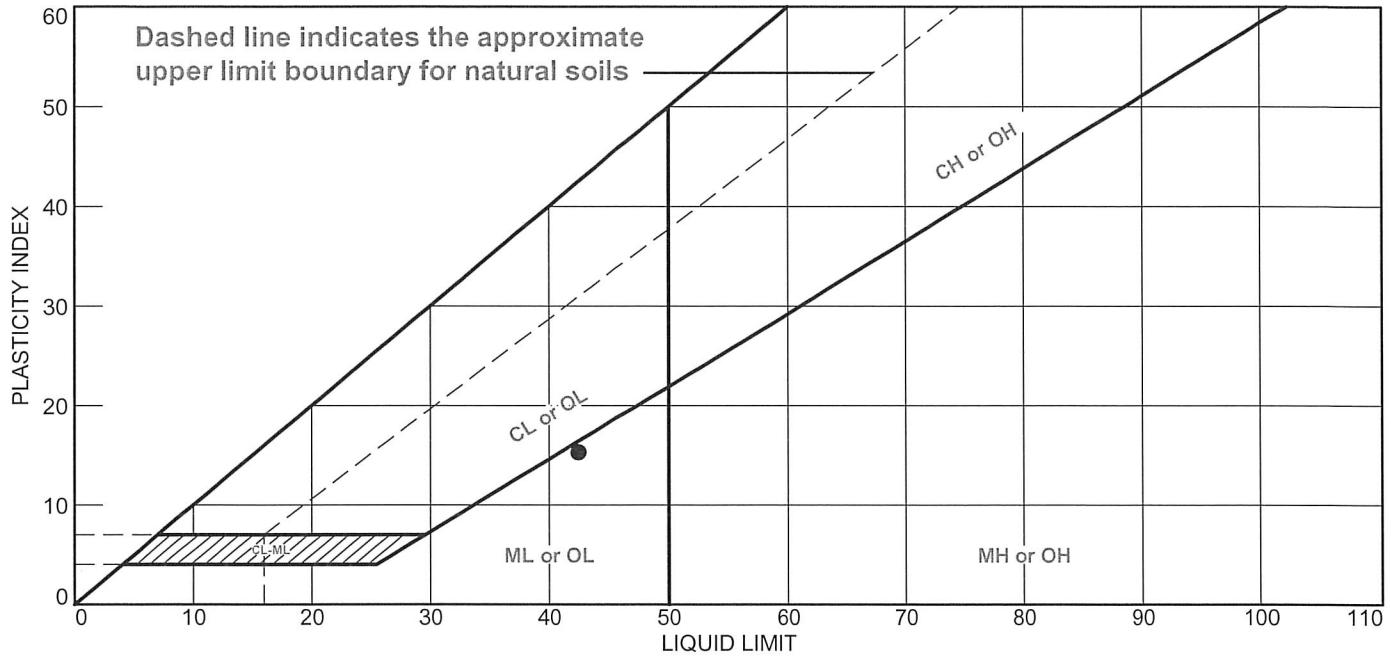
Reviewed By: _____

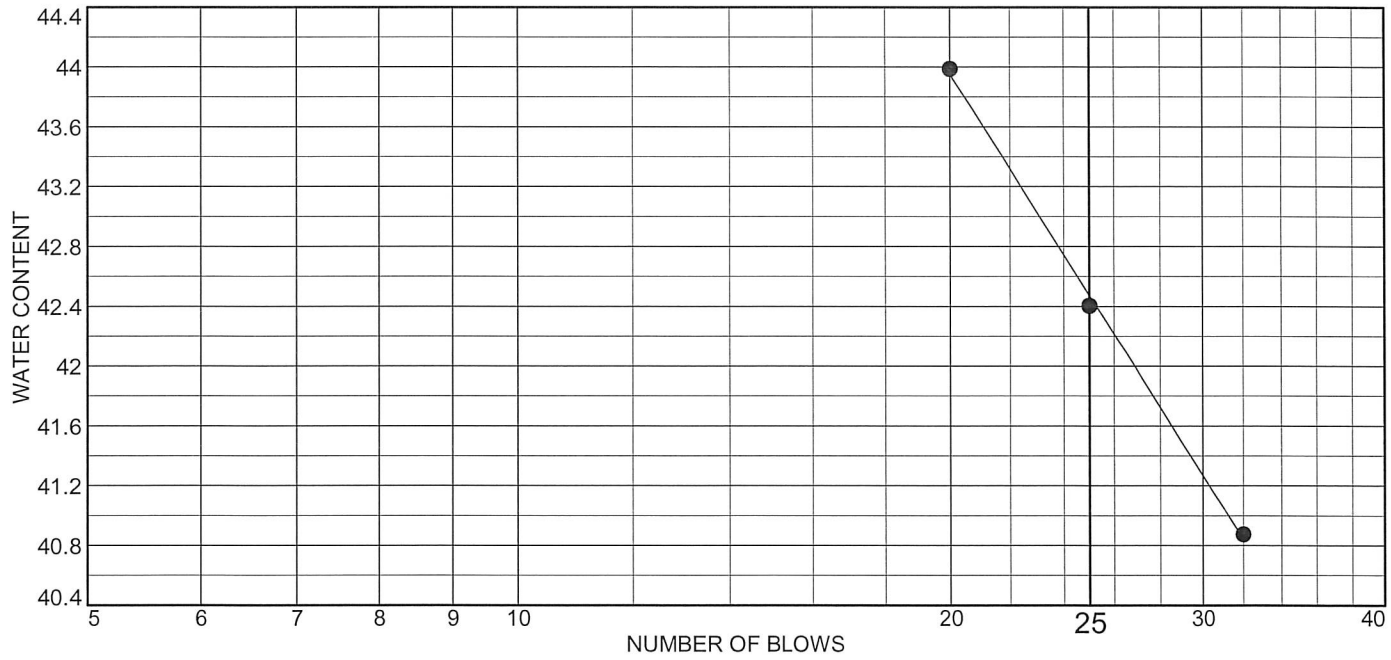
David C. Wilson, P.E. C54734
Senior Principal Engineer

Particle Size Distribution, Lab #33682



LIQUID AND PLASTIC LIMITS TEST REPORT





	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	(#33682)	42.5	27.2	15.3			

Project No. 5015190002.13 **Client:** TerraCosta Consulting Group, Inc.

Project: #3109: NASSCO Floating Dry Dock

Sample Number: B6 **Depth:** 44'

Remarks:

amec

Figure #33682

Tested By: MG **Checked By:** LC

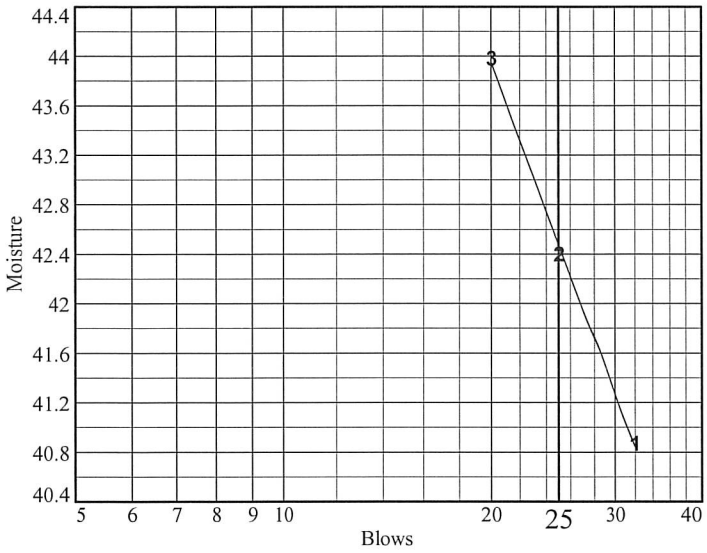
LIQUID AND PLASTIC LIMIT TEST DATA

6/11/2020

Client: TerraCosta Consulting Group, Inc.
Project: #3109: NASSCO Floating Dry Dock
Project Number: 5015190002.13
Depth: 44'
Sample Number: B6
Material Description: (#33682)
Tested by: MG
Checked by: LC

Liquid Limit Data

Run No.	1	2	3	4	5	6
Wet+Tare	23.80	22.97	22.34			
Dry+Tare	21.09	20.43	19.67			
Tare	14.46	14.44	13.6			
# Blows	32	25	20			
Moisture	40.9	42.4	44.0			



Liquid Limit= 42.5
Plastic Limit= 27.2
Plasticity Index= 15.3

Plastic Limit Data

Run No.	1	2	3	4	
Wet+Tare	19.14	17.02			
Dry+Tare	17.43	15.70			
Tare	11.09	10.87			
Moisture	27.0	27.3			

wood.

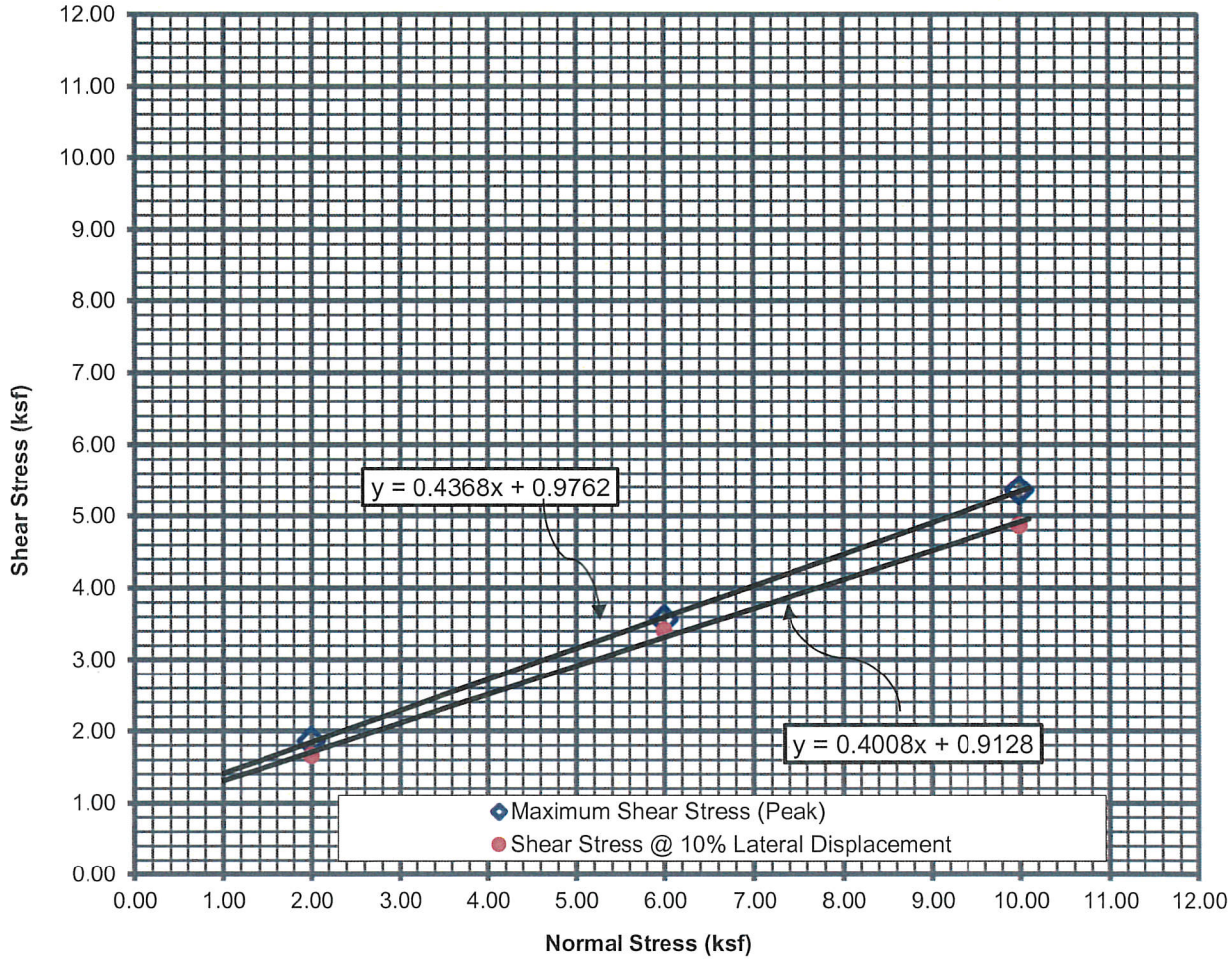
DIRECT SHEAR TEST

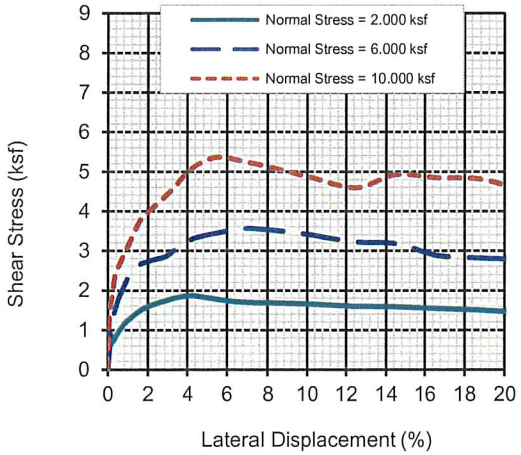
(AASHTO-T236)

Project Name:	Terracosta - NASSCO Floating Dry Dock					*Project No.:*	5015-19-0002.13
Boring No.:	B-6	*Sample No.:*	33682	*Depth:*	44'	*Date:*	6/9/2020
Soil Description:	Lean Clay, CL					*Tested By:*	M. Gibson

		Before Consolidation			After Consolidation		
		Load 1	Load 2	Load 3	Load 1	Load 2	Load 3
Normal Stress, ksf:	Wt of Soil & Ring, gr:	190.00	183.59	185.53	190.66	182.17	183.75
2.000, 6.000, 10.000	Weight of Ring, gr:	46.02	45.61	45.77	46.02	45.61	45.77
Shear Rate, in/min:	Ring Diameter, in:	2.411	2.414	2.415	2.411	2.414	2.415
0.02	Height of Sample, in:	1.006	0.988	0.995	1.002	0.967	0.965
As-Received Moisture: 28.5%	Tare No.:				87	15A	43
Saturated: Yes	Wet Weight and Tare, gr:				216.11	217.15	208.04
Intact/Undisturbed: Yes	Dry Weight and Tare, gr:				182.55	182.33	174.74
Notes:	Tare Weight, gr:				76.65	83.23	75.95
	Moisture Content, %:	28.5%	28.5%	28.5%	31.7%	35.1%	33.7%
	Wet Density, pcf:	119.4	116.2	116.8	120.5	117.5	118.9
	Dry Density, pcf:	92.9	90.5	90.9	91.5	87.0	88.9

Load 1 (KSF): 2.000				Load 2 (KSF): 6.000				Load 3 (KSF): 10.000			
Shear Deflec -tion (in)	Lateral Displace -ment (%)	Load Ring Reading	Shear Stress (KSF)	Shear Deflec -tion (in)	Lateral Displace -ment (%)	Load Ring Reading	Shear Stress (KSF)	Shear Deflec -tion (in)	Lateral Displace -ment (%)	Load Ring Reading	Shear Stress (KSF)
0.002	0.1	70	0.537	0.002	0.1	76	0.583	0.002	0.1	182	1.397
0.007	0.3	99	0.760	0.004	0.2	143	1.097	0.005	0.2	238	1.826
0.012	0.5	121	0.928	0.011	0.5	219	1.680	0.009	0.4	311	2.386
0.020	0.8	151	1.159	0.020	0.8	278	2.133	0.016	0.7	356	2.732
0.030	1.2	176	1.351	0.033	1.4	337	2.586	0.028	1.2	392	3.265
0.042	1.7	200	1.535	0.052	2.2	359	2.755	0.040	1.7	423	3.787
0.056	2.3	216	1.657	0.070	2.9	374	2.870	0.058	2.4	445	4.157
0.070	2.9	228	1.750	0.088	3.7	385	3.147	0.078	3.2	469	4.561
0.084	3.5	238	1.826	0.107	4.4	396	3.332	0.102	4.2	488	5.076
0.106	4.4	243	1.865	0.136	5.6	404	3.467	0.132	5.5	499	5.359
0.154	6.4	224	1.719	0.165	6.8	410	3.568	0.165	6.8	495	5.257
0.200	8.3	220	1.688	0.202	8.4	407	3.517	0.197	8.2	489	5.102
0.242	10.0	217	1.665	0.242	10.0	401	3.416	0.243	10.1	480	4.871
0.296	12.3	210	1.611	0.300	12.4	390	3.231	0.302	12.5	471	4.595
0.350	14.5	207	1.588	0.351	14.6	387	3.181	0.349	14.5	482	4.922
0.399	16.6	202	1.550	0.400	16.6	377	2.893	0.403	16.7	479	4.845
0.452	18.8	197	1.512	0.451	18.7	368	2.824	0.450	18.7	478	4.819
0.502	20.8	189	1.450	0.501	20.8	363	2.785	0.500	20.7	469	4.561
Max. Shear Stress, ksf:			1.865				3.568				5.359
Lat.Displmt@Max Stress,%.:			4.4				6.8				5.5





Boring No.:	B-6
Sample No.:	33682
Sample Depth :	44'
Soil Type:	Lean Clay, CL
Sample Conditions:	Saturated; Intact
Shear Rate:	0.02
As-Received Dry Density (PCF):	91.4
As- Received Moisture Content (%):	28.5

	◇	●
Cohesion (PSF):	976	913
Friction Angle (Degrees):	24	22

wood.	DIRECT SHEAR TEST	Project No.
	Terracosta	5015-19-0002.13
	NASSCO Floating Dry Dock	

wood.
9177 Sky Park Court, San Diego, CA 92123
Phone: 858-278-3600 Fax: 858-278-5300

Particle Size Distribution/Soil Classification

ASTM D6913 & ASTM D7928

Project Name:	NASSCO Floating Dry Dock	Lab #:	33683
Project #:	5015-19-0002.13		
Sampled By:	MM	Date Sampled:	5/18/2020
Tested By:	MG/LC/BL	Date Tested:	6/10 - 6/12/2020
Reviewed By:	M. Gibson	Date Reviewed:	6/12/2020

Sample Location: B-7 @ 25'

Soil Type: Sandy Lean Clay, CL

Particle Size Distribution, Lab #33683

Sieve Size	Sieve Opening/ Particle Size (mm)	Percent Passing
4"	101.60	100
3-1/2"	88.90	100
3"	76.20	100
2"	50.80	100
1-1/2"	38.10	100
1"	25.40	100
3/4"	19.00	100
1/2"	12.70	100
3/8"	9.51	100
#4	4.76	100
#10	2.00	99.6
#20	0.841	99.4
#40	0.420	99.2
#60	0.250	97.9
#100	0.149	87.6
#140	0.105	67.2
#200	0.074	50.0
Hydrometer Test Result	0.0477	33.34
	0.0345	28.32
	0.0220	26.16
	0.0128	24.37
	0.0091	22.58
	0.0065	21.81
	0.0046	19.61
	0.0033	18.85
	0.0014	15.97

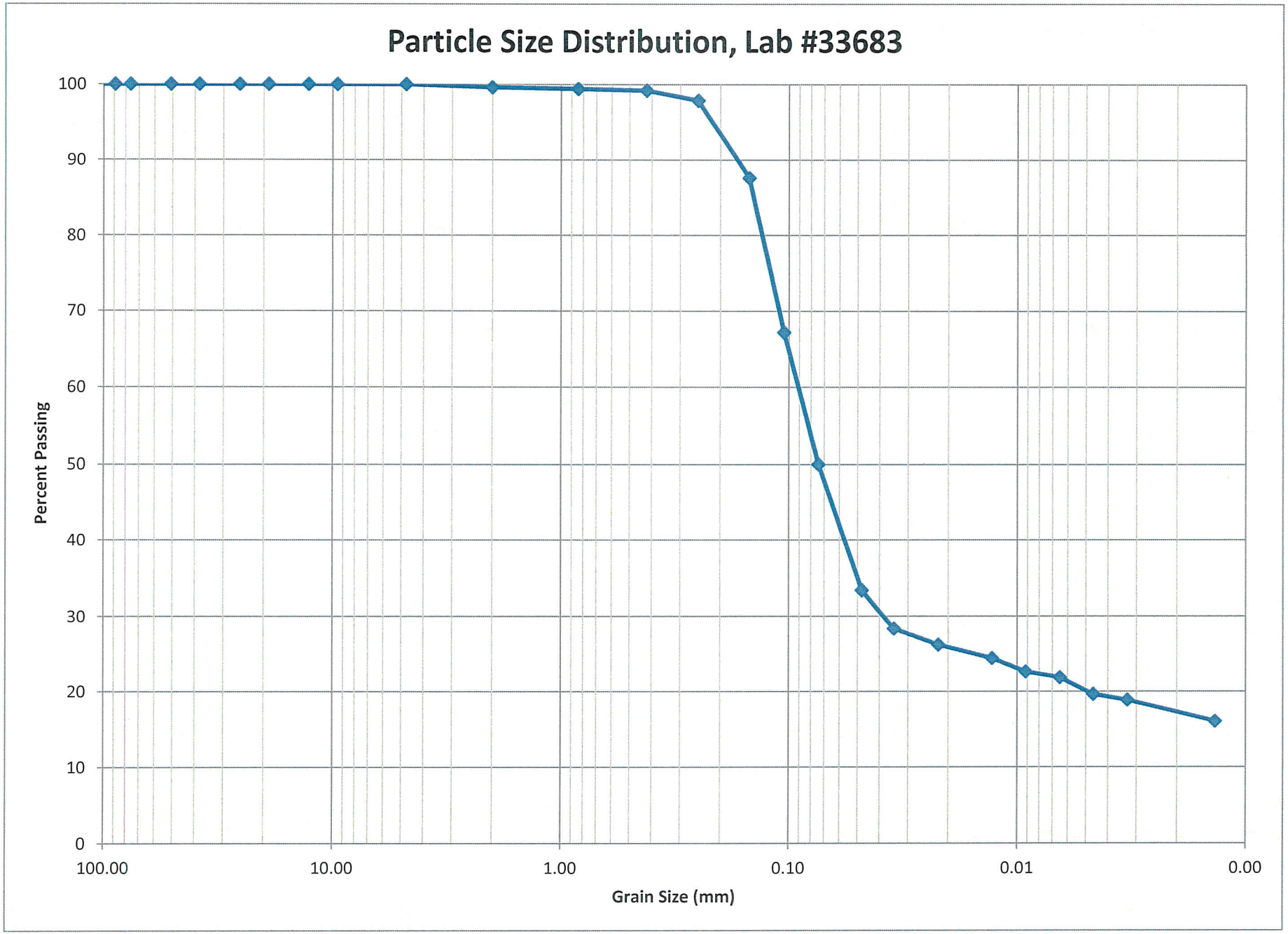
Plasticity Index (ASTM D4318)	
Liquid Limit:	32.9
Plastic Limit:	23
Plasticity Index:	9.9

Soil Classification Method	
ASTM D2487:	X
ASTM D2488:	

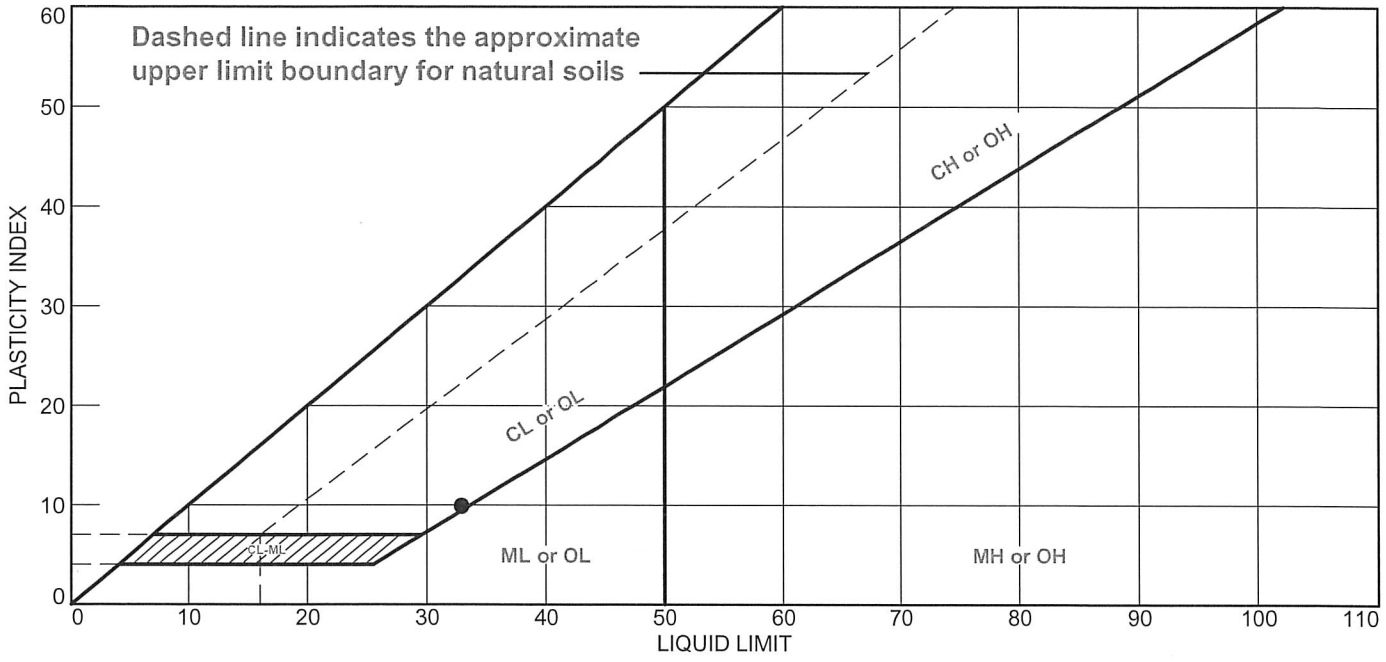
Moisture & Density Results	
As-Received Moisture %:	26.2
Wet Density (pcf):	124.6
Dry Density (pcf):	98.7

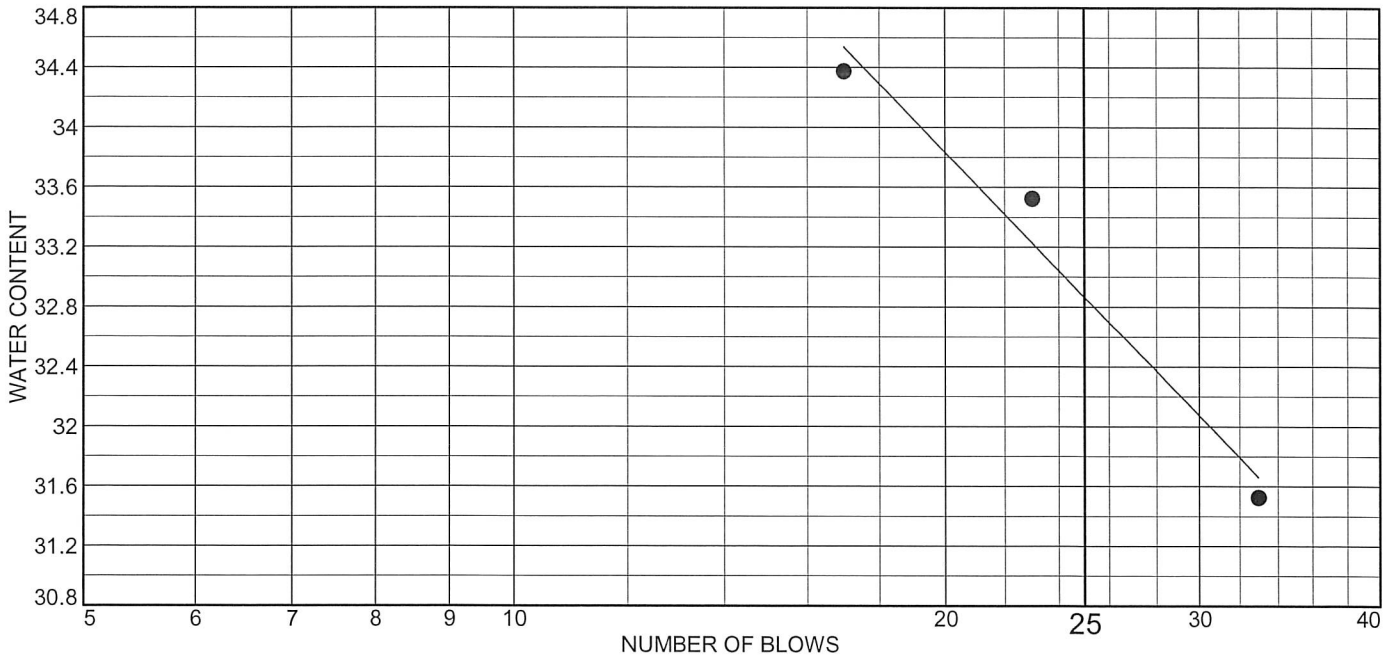
Reviewed By: _____

David C. Wilson, P.E. C54734
Senior Principal Engineer


Particle Size Distribution, Lab #33683
Percent Passing
100
90
80
70
60
50
40
30
20
10
0
100.00
10.00
1.00
0.10
0.01
0.00
Grain Size (mm)

LIQUID AND PLASTIC LIMITS TEST REPORT





	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	(#33683)	32.9	23.0	9.9			

Project No. 5015190002.13 **Client:** TerraCosta Consulting Group, Inc.

Project: #3109: NASSCO Floating Dry Dock

Sample Number: B7 **Depth:** 25'

Remarks:

amec

Figure #33683

Tested By: MG **Checked By:** LC

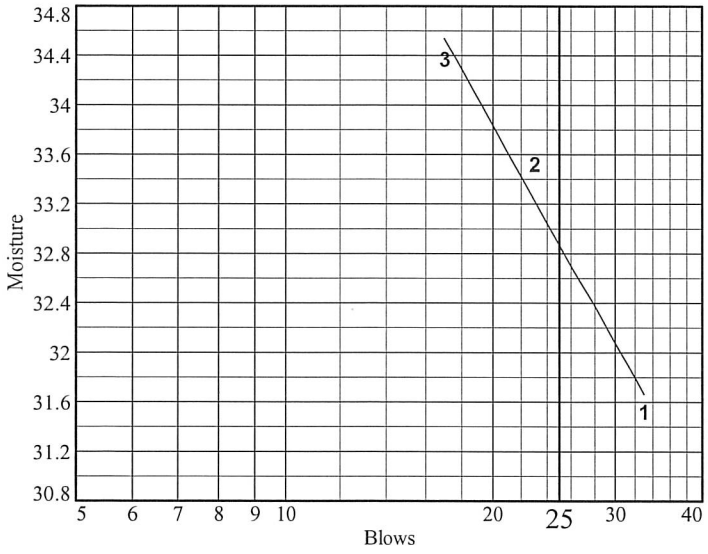
LIQUID AND PLASTIC LIMIT TEST DATA

6/11/2020

Client: TerraCosta Consulting Group, Inc.
Project: #3109: NASSCO Floating Dry Dock
Project Number: 5015190002.13
Depth: 25'
Sample Number: B7
Material Description: (#33683)
Tested by: MG
Checked by: LC

Liquid Limit Data

Run No.	1	2	3	4	5	6
Wet+Tare	24.82	23.74	23.79			
Dry+Tare	22.32	21.39	21.37			
Tare	14.39	14.38	14.33			
# Blows	33	23	17			
Moisture	31.5	33.5	34.4			



Liquid Limit= 32.9
Plastic Limit= 23.0
Plasticity Index= 9.9

Plastic Limit Data

Run No.	1	2	3	4	
Wet+Tare	18.44	18.06			
Dry+Tare	17.03	16.77			
Tare	11.01	11.08			
Moisture	23.4	22.7			

wood.

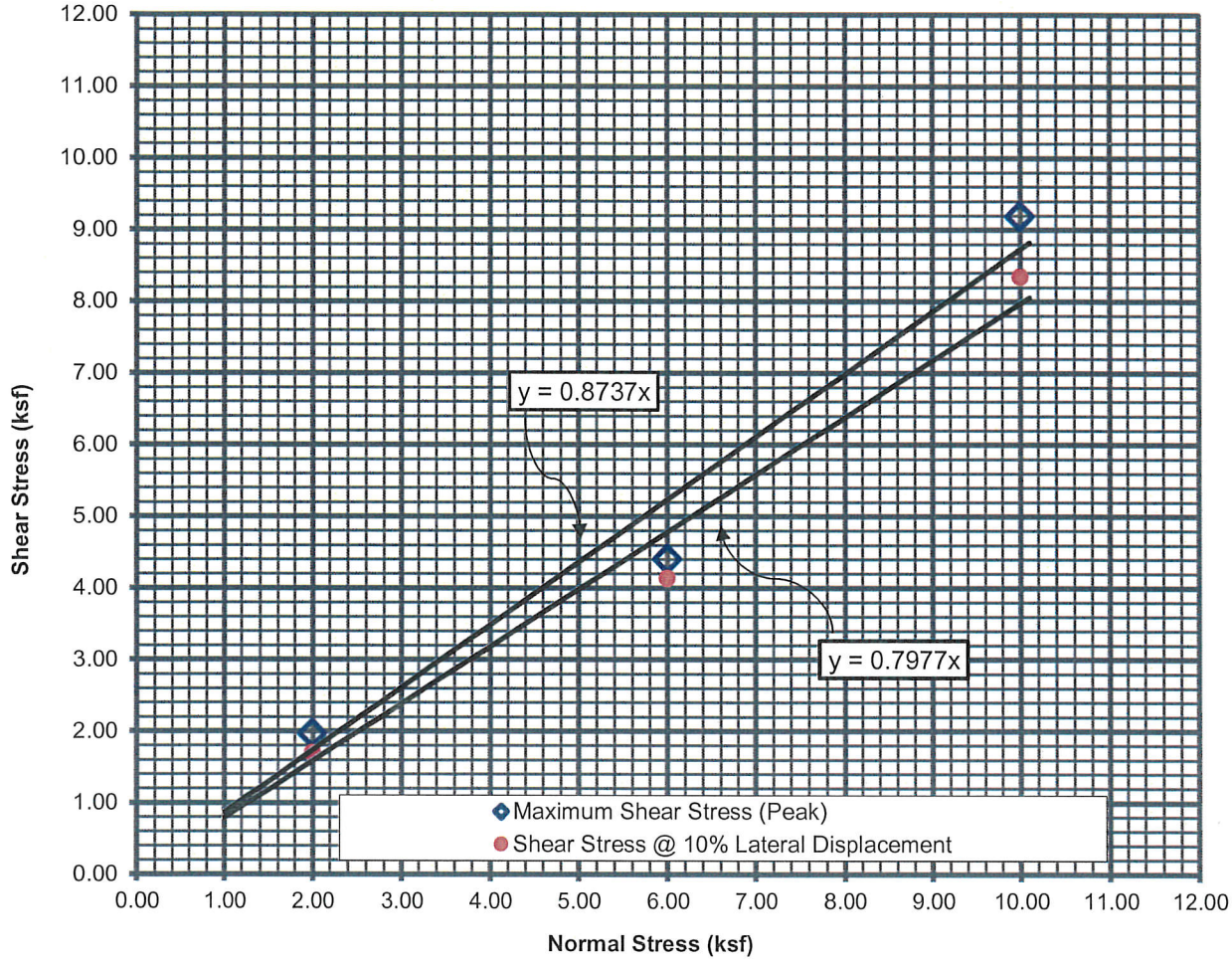
DIRECT SHEAR TEST

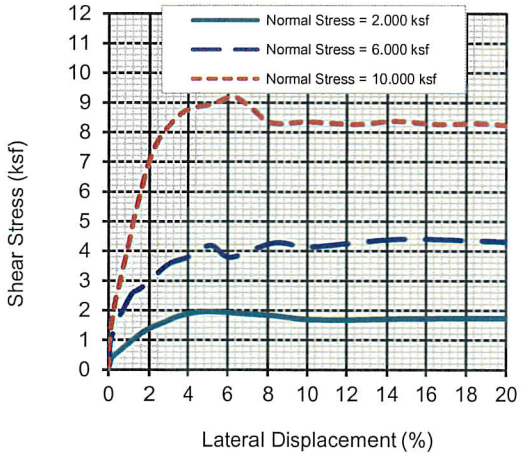
(AASHTO-T236)

Project Name:	Terracosta - NASSCO Floating Dry Dock					*Project No.:*	5015-19-0002.13
Boring No.:	B-7	*Sample No.:*	33683	*Depth:*	25'	*Date:*	6/10/2020
Soil Description:	Sandy Lean Clay, CL					*Tested By:*	B. Lewis

		Before Consolidation			After Consolidation		
		Load 1	Load 2	Load 3	Load 1	Load 2	Load 3
Normal Stress, ksf: 2.000, 6.000, 10.000	Wt of Soil & Ring, gr:	197.22	198.07	187.48	195.98	196.63	182.57
	Weight of Ring, gr:	45.69	46.52	40.98	45.69	46.52	40.98
Shear Rate, in/min: 0.02	Ring Diameter, in:	2.411	2.413	2.417	2.411	2.413	2.417
	Height of Sample, in:	1.009	1.018	0.978	0.999	0.987	0.927
As-Received Moisture: 26.2%	Tare No.:				51	8	17
Saturated: Yes	Wet Weight and Tare, gr:				222.48	217.76	206.15
Intact/Undisturbed: Yes	Dry Weight and Tare, gr:				191.54	187.81	179.03
Notes:	Tare Weight, gr:				76.91	76.38	76.06
	Moisture Content, %:	26.2%	26.2%	26.2%	27.0%	26.9%	26.3%
	Wet Density, pcf:	125.3	124.0	124.4	125.5	126.7	126.8
	Dry Density, pcf:	99.3	98.3	98.6	98.9	99.9	100.4

Load 1 (KSF): 2.000				Load 2 (KSF): 6.000				Load 3 (KSF): 10.000			
Shear Deflec -tion (in)	Lateral Displace -ment (%)	Load Ring Reading	Shear Stress (KSF)	Shear Deflec -tion (in)	Lateral Displace -ment (%)	Load Ring Reading	Shear Stress (KSF)	Shear Deflec -tion (in)	Lateral Displace -ment (%)	Load Ring Reading	Shear Stress (KSF)
0.004	0.2	51	0.391	0.002	0.1	109	0.836	0.002	0.1	145	1.113
0.010	0.4	73	0.560	0.006	0.2	167	1.281	0.007	0.3	276	2.118
0.019	0.8	100	0.767	0.011	0.5	217	1.665	0.013	0.5	373	2.862
0.028	1.2	127	0.975	0.020	0.8	281	2.156	0.024	1.0	447	4.191
0.040	1.7	163	1.251	0.029	1.2	336	2.578	0.035	1.5	508	5.591
0.053	2.2	190	1.458	0.040	1.7	362	2.778	0.054	2.2	581	7.468
0.066	2.7	210	1.611	0.058	2.4	392	3.265	0.080	3.3	619	8.446
0.078	3.2	228	1.750	0.074	3.1	412	3.602	0.101	4.2	633	8.806
0.095	3.9	246	1.888	0.097	4.0	424	3.804	0.125	5.2	638	8.934
0.121	5.0	257	1.972	0.124	5.1	447	4.191	0.151	6.3	648	9.191
0.161	6.7	248	1.903	0.149	6.2	423	3.787	0.171	7.1	636	8.883
0.200	8.3	238	1.826	0.200	8.3	452	4.275	0.197	8.2	614	8.317
0.242	10.0	222	1.703	0.242	10.0	444	4.140	0.243	10.1	615	8.343
0.300	12.4	220	1.688	0.298	12.4	452	4.275	0.302	12.5	612	8.266
0.351	14.6	225	1.727	0.328	13.6	457	4.359	0.348	14.4	616	8.368
0.398	16.5	226	1.734	0.364	15.1	460	4.409	0.401	16.6	612	8.266
0.450	18.7	226	1.734	0.400	16.6	459	4.393	0.450	18.7	613	8.291
0.499	20.7	227	1.742	0.500	20.7	453	4.292	0.500	20.7	609	8.188
Max. Shear Stress, ksf:			1.972				4.409				9.191
Lat.Displmt@Max Stress,%.:			5.0				15.1				6.3





Boring No.:	B-7
Sample No.:	33683
Sample Depth :	25'
Soil Type:	Sandy Lean Clay, CL
Sample Conditions:	Saturated; Intact
Shear Rate:	0.02
As-Received Dry Density (PCF):	98.7
As- Received Moisture Content (%):	26.2

	◇	●
Cohesion (PSF):	0	0
Friction Angle (Degrees):	41	39

wood.	DIRECT SHEAR TEST	Project No.
	Terracosta	5015-19-0002.13
	NASSCO Floating Dry Dock	

Appendix G

Construction Noise and Vibration Calculations

Construction Source Noise Prediction Model

Location/Threshold	Distance to Nearest Receptor in feet	Combined Predicted Noise Level (L_{eq} dBA)
Daytime Threshold	268	75.0
Single-family residence	1180	62.1

Equipment	Reference Noise Levels (L_{max}) at 50 feet[1]	Usage Factor[1]
Crane	85	0.16
Excavator	85	0.4
Impact Pile Driver	95	0.2
Flat Bed Truck	84	0.4

Ground Type	hard
Source Height	8
Receiver Height	5
Ground Factor[2]	0.00

Predicted Noise Level [3]	L_{eq} dBA at 50 feet[3]
Crane	77.0
Excavator	81.0
Impact Pile Driver	88.0
Flat Bed Truck	80.0

Combined Predicted Noise Level (L_{eq} dBA at 50 feet)
89.6

Sources:

[1] Obtained from the FHWA Roadway Construction Noise Model, January 2006. Table 1.

[2] Based on Table 4-26 from the Federal Transit Noise and Vibration Impact Assessment, 2018 (pg 86).

[3] Based on the following from the Federal Transit Noise and Vibration Impact Assessment, 2018 (pg 176 and 177).

L_{eq}(equip) = E.L.+10*log (U.F.) - 20*log (D/50) - 10*G*log (D/50)

Where: E.L. = Emission Level;

U.F.= Usage Factor;

G = Constant that accounts for topography and ground effects (FTA 2018: pg 86); and

D = Distance from source to receiver.

Construction Source Noise Prediction Model

Location/Threshold	Distance to Nearest Receptor in feet	Combined Predicted Noise Level (L_{eq} dBA)
Evening threshold	578	60.0
Nighttime threshold	770	57.5
Single-family residence	1180	53.8

Equipment	Reference Noise Levels (L_{max}) at 50 feet[1]	Usage Factor[1]
Flat Bed Truck	84	0.4
Pumps	77	0.5
Welder / Torch	73	0.4

Ground Type	hard
Source Height	8
Receiver Height	5
Ground Factor[2]	0.00

Predicted Noise Level [3]	L_{eq} dBA at 50 feet[3]
Flat Bed Truck	80.0
Pumps	74.0
Welder / Torch	69.0

Combined Predicted Noise Level (L_{eq} dBA at 50 feet)
81.3

Sources:

[1] Obtained from the FHWA Roadway Construction Noise Model, January 2006. Table 1.

[2] Based on Table 4-26 from the Federal Transit Noise and Vibration Impact Assessment, 2018 (pg 86).

[3] Based on the following from the Federal Transit Noise and Vibration Impact Assessment, 2018 (pg 176 and 177).

$L_{eq}(equip) = E.L.+10*\log(U.F.) - 20*\log(D/50) - 10*G*\log(D/50)$

Where: E.L. = Emission Level;

U.F.= Usage Factor;

G = Constant that accounts for topography and ground effects (FTA 2018: pg 86); and

D = Distance from source to receiver.

Equipment Description	Acoustical Usage Factor (%)	Spec 721.560 Lmax @ 50ft (dBA slow)	Actual Measured Lmax @ 50ft (dBA slow)	No. of Actual Data Samples (count)	Spec 721.560 LmaxCalc	Spec 721.560 Leq	Distance	Actual Measured LmaxCalc	Actual Measured Leq
Auger Drill Rig	20	85	84	36	79.0	72.0	100	78.0	71.0
Backhoe	40	80	78	372	74.0	70.0	100	72.0	68.0
Bar Bender	20	80	na	0	74.0	67.0	100		
Blasting	na	94	na	0	88.0		100		
Boring Jack Power Unit	50	80	83	1	74.0	71.0	100	77.0	74.0
Chain Saw	20	85	84	46	79.0	72.0	100	78.0	71.0
Clam Shovel (dropping)	20	93	87	4	87.0	80.0	100	81.0	74.0
Compactor (ground)	20	80	83	57	74.0	67.0	100	77.0	70.0
Compressor (air)	40	80	78	18	74.0	70.0	100	72.0	68.0
Concrete Batch Plant	15	83	na	0	77.0	68.7	100		
Concrete Mixer Truck	40	85	79	40	79.0	75.0	100	73.0	69.0
Concrete Pump Truck	20	82	81	30	76.0	69.0	100	75.0	68.0
Concrete Saw	20	90	90	55	84.0	77.0	100	84.0	77.0
Crane	16	85	81	405	79.0	71.0	100	75.0	67.0
Dozer	40	85	82	55	79.0	75.0	100	76.0	72.0
Drill Rig Truck	20	84	79	22	78.0	71.0	100	73.0	66.0
Drum Mixer	50	80	80	1	74.0	71.0	100	74.0	71.0
Dump Truck	40	84	76	31	78.0	74.0	100	70.0	66.0
Excavator	40	85	81	170	79.0	75.0	100	75.0	71.0
Flat Bed Truck	40	84	74	4	78.0	74.0	100	68.0	64.0
Front End Loader	40	80	79	96	74.0	70.0	100	73.0	69.0
Generator	50	82	81	19	76.0	73.0	100	75.0	72.0
Generator (<25KVA, VMS si	50	70	73	74	64.0	61.0	100	67.0	64.0
Gradall	40	85	83	70	79.0	75.0	100	77.0	73.0
Grader	40	85	na	0	79.0	75.0	100		
Grapple (on Backhoe)	40	85	87	1	79.0	75.0	100	81.0	77.0
Horizontal Boring Hydr. Jac	25	80	82	6	74.0	68.0	100	76.0	70.0
Hydra Break Ram	10	90	na	0	84.0	74.0	100		
Impact Pile Driver	20	95	101	11	89.0	82.0	100	95.0	88.0
Jackhammer	20	85	89	133	79.0	72.0	100	83.0	76.0
Man Lift	20	85	75	23	79.0	72.0	100	69.0	62.0
Mounted Impact Hammer (	20	90	90	212	84.0	77.0	100	84.0	77.0
Pavement Scarafier	20	85	90	2	79.0	72.0	100	84.0	77.0
Paver	50	85	77	9	79.0	76.0	100	71.0	68.0
Pickup Truck	40	55	75	1	49.0	45.0	100	69.0	65.0
Pneumatic Tools	50	85	85	90	79.0	76.0	100	79.0	76.0
Pumps	50	77	81	17	71.0	68.0	100	75.0	72.0
Refrigerator Unit	100	82	73	3	76.0	76.0	100	67.0	67.0
Rivit Buster/chipping gun	20	85	79	19	79.0	72.0	100	73.0	66.0
Rock Drill	20	85	81	3	79.0	72.0	100	75.0	68.0
Roller	20	85	80	16	79.0	72.0	100	74.0	67.0
Sand Blasting (Single Nozzle	20	85	96	9	79.0	72.0	100	90.0	83.0
Scraper	40	85	84	12	79.0	75.0	100	78.0	74.0
Shears (on backhoe)	40	85	96	5	79.0	75.0	100	90.0	86.0
Slurry Plant	100	78	78	1	72.0	72.0	100	72.0	72.0
Slurry Trenching Machine	50	82	80	75	76.0	73.0	100	74.0	71.0
Soil Mix Drill Rig	50	80	na	0	74.0	71.0	100		
Tractor	40	84	na	0	78.0	74.0	100		
Vacuum Excavator (Vac-tru	40	85	85	149	79.0	75.0	100	79.0	75.0
Vacuum Street Sweeper	10	80	82	19	74.0	64.0	100	76.0	66.0
Ventilation Fan	100	85	79	13	79.0	79.0	100	73.0	73.0
Vibrating Hopper	50	85	87	1	79.0	76.0	100	81.0	78.0
Vibratory Concrete Mixer	20	80	80	1	74.0	67.0	100	74.0	67.0
Vibratory Pile Driver	20	95	101	44	89.0	82.0	100	95.0	88.0
Warning Horn	5	85	83	12	79.0	66.0	100	77.0	64.0
Welder / Torch	40	73	74	5	67.0	63.0	100	68.0	64.0

Source:
FHWA Roadway Construction Noise Model, January 2006. Table 9.1
U.S. Department of Transportation
CA/T Construction Spec. 721.560

Distance Propagation Calculations for Stationary Sources of Ground Vibration

KEY: Orange cells are for input.

Grey cells are intermediate calculations performed by the model.

Green cells are data to present in a written analysis (output).

STEP 1: Determine units in which to perform calculation.

— If vibration decibels (VdB), then use Table A and proceed to Steps 2A and 3A.

— If peak particle velocity (PPV), then use Table B and proceed to Steps 2B and 3B.

STEP 2A: Identify the vibration source and enter the reference vibration level (VdB) and distance.

STEP 3A: Select the distance to the receiver.

Table A. Propagation of vibration decibels (VdB) with distance

Noise Source/ID	Reference Noise Level			Attenuated Noise Level at Receptor		
	vibration level (VdB)	@	distance (ft)	vibration level (VdB)	@	distance (ft)
Impact Pile Driver	112	@	25	79.8	@	295
Vibratory Pile Driver	105	@	26	78.1		205

The Lv metric (VdB) is used to assess the likelihood for vibration to result in human annoyance.

STEP 2B: Identify the vibration source and enter the reference peak particle velocity (PPV) and distance.

STEP 3B: Select the distance to the receiver.

Table B. Propagation of peak particle velocity (PPV) with distance

Noise Source/ID	Reference Noise Level			Attenuated Noise Level at Receptor		
	vibration level (PPV)	@	distance (ft)	vibration level (PPV)	@	distance (ft)
Impact Pile Driver	1.518	@	25	0.49	@	53
Vibratory Pile Driver	0.730	@	25	0.50		32

The PPV metric (in/sec) is used for assessing the likelihood for the potential of structural damage.

Notes:

Computation of propagated vibration levels is based on the equations presented on pg. 185 of FTA 2018. Estimates of attenuated vibration levels do not account for reductions from intervening underground barriers or other underground structures of any type, or changes in soil type.

Federal Transit Association (FTA). 2018 (September). Transit Noise and Vibration Impact Assessment Manual. FTA Report No. 0123. Washington, D.C. Accessed: December 20, 2020. Page Available: https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf

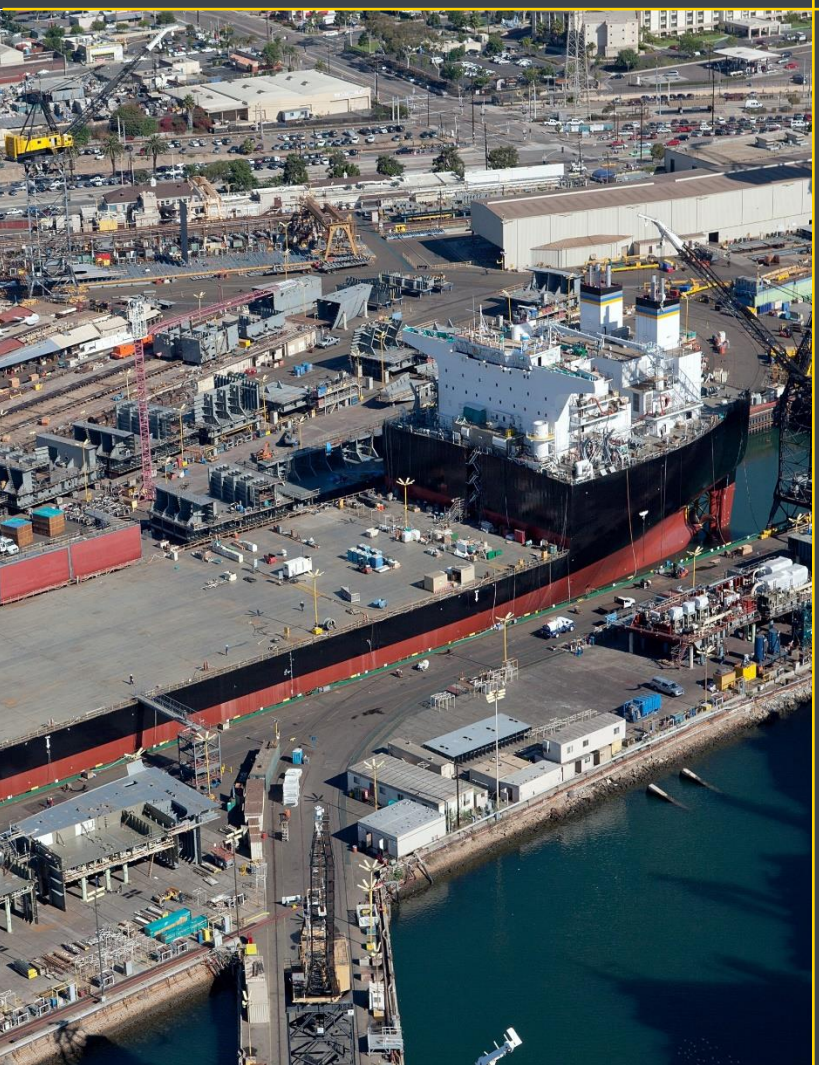
Appendix H

Transportation Impact Study

Transportation Impact Study

NASSCO Floating Dry dock and Waterfront Improvement Project

July 16, 2021



Prepared For:

PORT of SAN DIEGO

ASCENT ENVIRONMENTAL

Prepared By:

Intersecting Metrics

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Appendices

Appendix A: Proposed Project Description

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1.0 Introduction

The purpose of this Transportation Impact Study (TIS) is to identify and document any significant transportation related impacts associated with the NASSCO Floating Dry dock and Waterfront Improvement Project (Proposed Project), and to recommend mitigation measures for identified impacts, as necessary.

1.1 Project Description

General Dynamics NASSCO (NASSCO) is proposing a series of repairs and improvements to be conducted within their shipyard located within San Diego, CA. The Proposed Project includes the following elements:

- *Removal and Replacement of the existing floating dry dock and construction of supporting infrastructure* - The current floating dry dock, built in 1983, has reached the end of its useful life and would be replaced with a new floating dry dock of similar characteristics and the same functionality. Supporting infrastructure consisting of replacement mooring dolphins, utilities, and reconfiguration of the existing approach pier are required in order to comply with current standards and code.
- *Improvements to the Repair Complex Wharf* - The Repair Complex Wharf is landward of the existing and proposed floating dry dock. Currently, the wharf provides limited laydown and space for offices. However, it is in disrepair and must be replaced in order to fully use this area of the facility. As part of the Project, NASSCO is proposing Repair Complex Wharf Improvements in order to maximize the storage and laydown capabilities in this area of the facility.
- *Repairs to the quay wall toe of slope along stretches of shoreline throughout the NASSCO leasehold* - The Proposed Project would also repair the failed revetment and exposed shoreline present throughout the NASSCO leasehold, including shoreline segments from Lot 20 to Pier 12, floating dry dock approach pier to Berth 8, Ways to Building Dock, Berth 2 to Berth 3, Berth 4 to Berth 5, and Berth 6 to Navy Base Quay Wall. Proposed repairs include placement of stabilizing material (mostly rock riprap) to address existing damage and prevent future damage from wave action, in order to maintain existing safe operation of the NASSCO shipyard.
- *As-needed structural repair and/or replacement of selected piles* – The Proposed Project includes programmatic repair and/or replacement of damaged piles that support Berths 2, 3, 4, 5, 6, and Pier 12 and the floating dry dock approach pier and the Berth 1 Platform. The proposed repairs are necessary to restore the structural integrity of these piers, extend their service lives, and provide safe mooring berths for new construction and repair vessels.

Detailed descriptions of each component listed above is provided in Appendix A. The regional Project Location is displayed in Figure 1-1. The specific locations of the Proposed Project elements, described above, are provided in Figure 1-2.

It should be noted that the implementation of the Proposed Project would not expand the existing use of the current site or result in any changes to NASSCO's existing operations.

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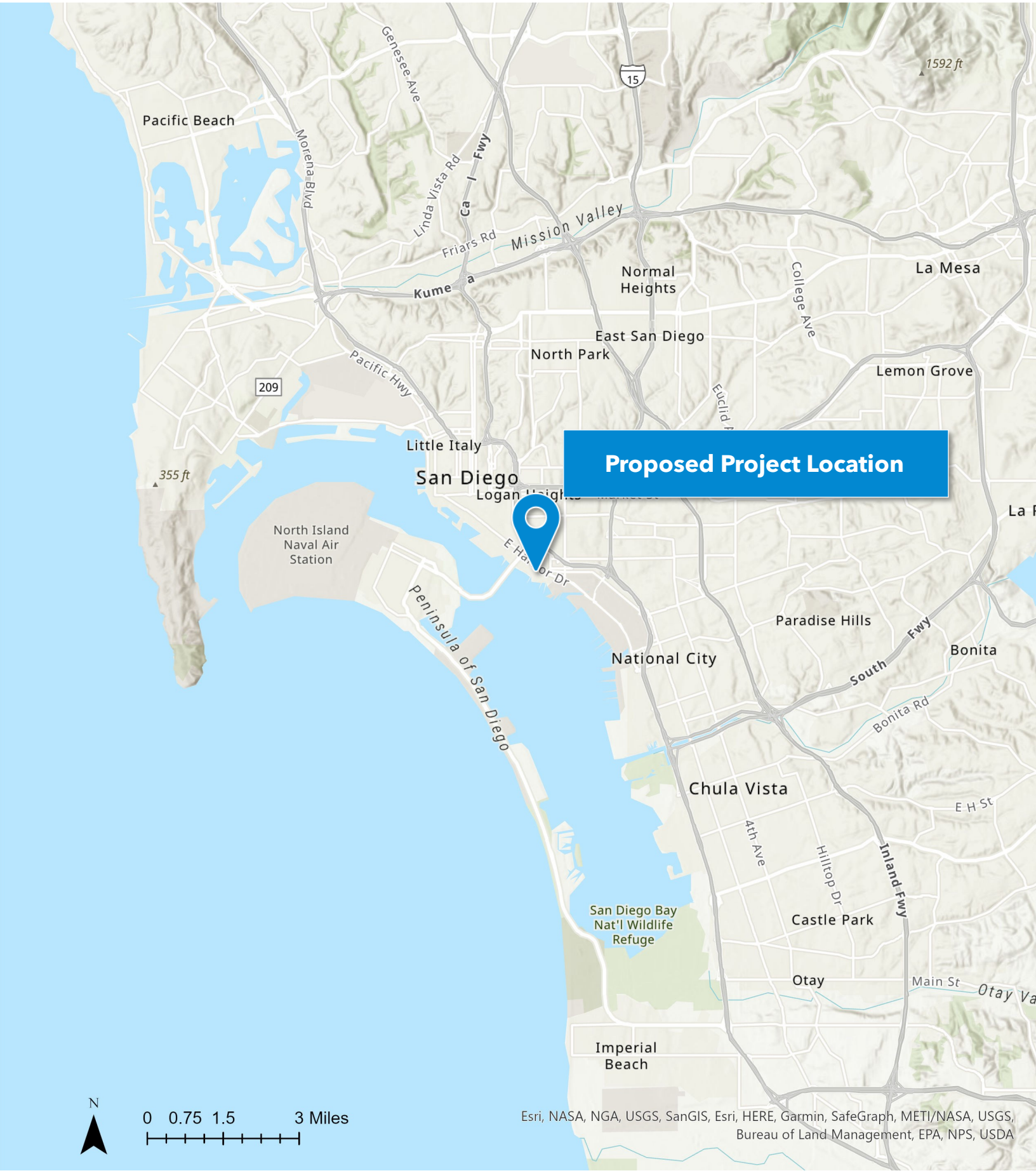
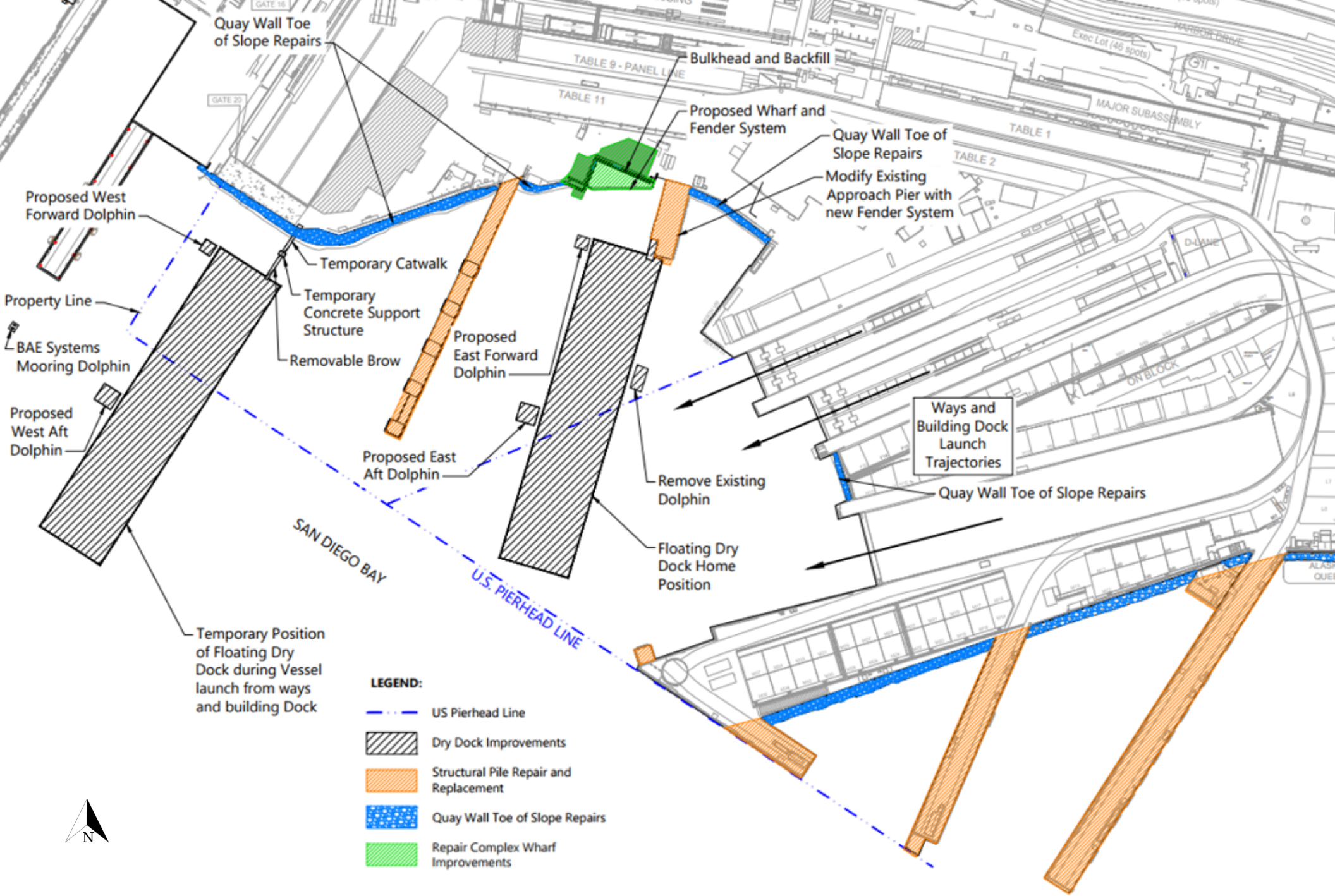


NASSCO Floating Dry dock and Waterfront Improvement Project

Figure 1-1

Regional Location


Quay Wall Toe of Slope Repairs
Bulkhead and Backfill
Proposed Wharf and Fender System
Quay Wall Toe of Slope Repairs
Modify Existing Approach Pier with new Fender System
Proposed West Forward Dolphin
Temporary Catwalk
Temporary Concrete Support Structure
Removable Brow
Property Line
BAE Systems Mooring Dolphin
Proposed East Forward Dolphin
Proposed West Aft Dolphin
Proposed East Aft Dolphin
Remove Existing Dolphin
Ways and Building Dock Launch Trajectories
Quay Wall Toe of Slope Repairs
SAN DIEGO BAY
U.S. PIERHEAD LINE
Floating Dry Dock Home Position
Temporary Position of Floating Dry Dock during Vessel launch from ways and building Dock
LEGEND:
US Pierhead Line
Dry Dock Improvements
Structural Pile Repair and Replacement
Quay Wall Toe of Slope Repairs
Repair Complex Wharf Improvements
N

1.2 Report Organization

Following this Introduction chapter, this report is organized into the following sections:

2.0 *Analysis Methodology* – This chapter describes the methodologies and standards utilized to analyze and identify the transportation related impacts associated with the Proposed Project.

3.0 *Transportation Related Impacts and Mitigation* – This chapter derives and analyzes the projected Vehicle Miles Traveled (VMT) that will be generated by the Proposed Project. This chapter also identifies if the Proposed Project related VMT would create significant project related impacts, as it relates to the standards outlined in the California Environmental Quality Act (CEQA). Finally, the chapter provides recommendations for mitigation measures to reduce the identified transportation related impacts to less than significant levels, if necessary, and evaluates the feasibility of the proposed mitigation measures.

4.0 *Construction Related Impacts and Mitigation* - This chapter evaluates the potential transportation related impacts that may be associated with the construction of the Proposed Project. Recommendations for mitigation measures to reduce any identified transportation related impacts to less than significant levels, are provided, if necessary.

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2.0 Analysis Methodology and Threshold

2.1 Background (SB-743)

On September 27, 2013, Governor Edmund G. Brown, Jr. signed SB-743 into law, starting a process that is expected to fundamentally change the way transportation impact analysis is conducted under CEQA. Within the State's CEQA Guidelines, these changes will include elimination of auto delay, level of service (LOS), and similar measurements of vehicular roadway capacity and traffic congestion as the basis for determining significant impacts.

On December 2018, the Resources Agency certified and adopted the CEQA Guidelines update package, which included the California Natural Resources Agency Guidelines for the Implementation of the California Environmental Quality Act. As a result, the California Governor's Office of Planning and Research (OPR) updated and released the Technical Advisory on Evaluating Transportation Impacts in CEQA (Technical Advisory) in December 2018[1]. According to the updated guidelines, lead agencies will have until July 1, 2020 to comply with the updated CEQA revision.

2.2 Analysis Guidelines and Significance Thresholds

In response to the implementation of SB-743, the District recommends using the standards and thresholds outlined in the ORP Technical Advisory to determine transportation related impacts. For land use development projects that have trip-making characteristics like an employment trip, such as the Proposed Project's shipyards, OPR recommends using VMT/employee to determine if a project has a significant transportation related impact.

VMT/Employee includes all vehicle-based person trips grouped and summed to the work location of individuals on the trip. This includes all trips, not just work-related trips. The VMT for each work location is then summed for all work locations in a particular Traffic Analysis Zone (TAZ) and then divided by the total number of employees of that census tract to arrive at the VMT/Employee. OPR suggest that a Proposed Project that generates a VMT/Employee great than 85 percent of the average existing regional VMT/Employee may indicate a significant transportation impact.

Analysis Tool

The SANDAG Series 13 Activity Based Model (ABM) was utilized for this effort to determine the Proposed Project related VMT/Employee. The ABM is a travel demand forecasting model that incorporates census data and travel surveys to inform the algorithms of the model's projections. It uses a simulated population, based on existing and projected demographics, to match residents to employment and forecasts the daily travel on the regional transportation network. In addition, the model is able to track the daily travel of individuals in the simulated population, including origins, destinations, travel distances and mode choices. The Series 13 ABM has four (4) forecast scenarios: 2012, 2020, 2035, and 2050.

The SANDAG Series 13 ABM was customized by the District, the San Diego International Airport (SDIA) and the City of San Diego the to incorporate the land use and transportation network changes proposed within the area, based on a series of recently adopted or on-going planning efforts. These efforts include the Port Master Plan Update, SDIA Master Plan, Midway-Pacific Highway Community

[1] https://opr.ca.gov/docs/20190122-743_Technical_Advisory.pdf

Plan Update, Mission Valley Community Plan Update, Barrio Logan Community Plan Update, and the Downtown Mobility Plan. This was a comprehensive effort by all jurisdictions to provide consistency between the on-going planning efforts within the area by providing a single transportation forecast model to build off of.

To calculate both the VMT/Employee and the total VMT generated, the land use changes were coded into their respective TAZ and transportation network changes were also coded throughout the Tidelands. Select Zone Assignments were then conducted for the TAZs to track origin and destination pairings, as well as the routes choices for vehicular trips coming to and from the Districts land uses. The total VMT generated within the planning district in which the Proposed Project is located was calculated based on the total number of trips (all trip types) generated between the by District land uses then multiplying by the route distance between them. VMT/Employee was calculated by summing the total VMT generated by employees and then divided by the total number of jobs.

A detailed description of how the SANDAG Model calculates VMT is provided at the following location: https://www.sandag.org/uploads/2050RTP/F2050RTPTA15.pdf

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3.0 Transportation Impact & Mitigation

This chapter derives and analyzes the projected VMT/Employee that will be generated by the Proposed Project. This chapter also identifies if the Proposed Project related VMT/Employee would create significant project related impact, as it relates to the standards outlined in the California Environmental Quality Act (CEQA) and the draft Guidelines. Finally, the chapter provides recommendations for mitigation measures that may reduce the Proposed Project's impacts to less than significant levels, and evaluates the feasibility of the proposed mitigation measures, if necessary.

3.1 Trip Generation

The improvements included within the Proposed Project are only rehabilitating existing facilities that already exist on the Proposed Project site. The improvements will not expand or add any new facilities or infrastructure onto the Proposed Project Site. Therefore, the Proposed Project is not anticipated to change the number of employees that access the NASSCO facilities on a daily basis, nor are they anticipated to increase the number of deliveries, vendors, or other services to the facility. Therefore, the implementation of the Proposed Project is not anticipated to increase or change the travel patterns within the area nor is it anticipated to increase or affect the VMT/Employee or overall daily VMT in which the NASSCO facility currently generates. As such, implementation of the Proposed Project will have a less than significant transportation related impact.

3.2 Parking

As noted in the previous section, the improvements included within the Proposed Project are not anticipated to change the number of employees that access the NASSCO facilities on a daily basis. As such, no additional parking demand is anticipated with the implementation of the Proposed Project. Therefore, implementation of the Proposed Project will have a less than significant parking related impact.

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4.0 Construction Analysis

Construction of the various project components is anticipated to occur as follows:

- Floating Dry Dock Replacement and Modification: January 2023 to September 2024
- Repair Complex Wharf Improvements: September 2024 to July 2025
- Quay Wall Revetment Repairs (Berths 2-5): January 2024 to February 2024
- As-needed Quay Wall Revetment Repairs (additional 1,500 linear feet): January 2025 to December 2027 (500 linear feet per year)
- Structural Pile Repair and Replacement: January 2024 to January 2034 (100 piles per year as needed)

Construction activities would occur 24 hours per day and seven days per week, in a manner consistent with the City of San Diego Noise Ordinance (Section 21.0104 of the San Diego Municipal Code). Construction work during night-time hours (between 7:00 p.m. and 7:00 a.m.) would be limited to project deliveries, formwork, welding, and other activities that would not generate disturbing, excessive, or offensive noise. Pile driving activities would only be conducted during daylight hours.

4.1 Construction Trip Generation

The daily number of NASSCO employees that access the Proposed Project site is not anticipated to change during Proposed Project construction. It is anticipated that approximately 10 construction workers would be present on the construction site each day, including one tug operator, two crane operators, one foreman, two oilers, and four laborers. Construction activities are anticipated to generate approximately two contractor vehicle truck trips per day for miscellaneous material and equipment loading. The majority of contractor equipment, materials and personnel will be mobilized and demobilized from the project site via barge or water access. Minimal truck trips should be necessary during construction for contractor site vehicles and miscellaneous material/equipment loads.

Table 1 displays the daily and peak hour trip generation that is anticipated to be associated with Proposed Project construction. To be conservative, it is assumed that all construction workers would drive their own vehicles to the Proposed Project site and arrive during the AM peak hour and depart during the PM peak hour. It is assumed that truck trips would occur throughout the typical workday and outside of the typical commute peak hours.

Table 1: Proposed Project Construction Trip Generation

Use	Units	Daily Trip Generation Rate	PCE	ADT	AM Peak Hour		PM Peak Hour	
					In	Out	In	Out
Construction Worker	10	2 trips per worker	1.0	20	10	0	0	10
Truck Trips	2	2 trip per truck	3.0	12	0	0	0	0
			Total	32	10	0	0	10

Note
PCE: Passenger Car Equivalent – since the truck size is not known at this time, the maximum rate of 3.0 was selected.

4.2 Construction VMT Analysis

Construction workers VMT is not newly generated; instead, it is redistributed throughout the network based on their travel to different work sites each day; therefore, they are not generating new VMT each day, only redistributing it. It is important to note that construction traffic is temporary and not expected to significantly increase VMT or permanently degrade operations of a roadway facility. This redistribution is considered to be nominal and momentary. Additionally, per OPR's Technical Advisory, SB 743's intent is to plan for "long term climate goals"[2], so projects with temporary affects to VMT and the transportation system are not deemed to be significant. Consequently, it is assumed that the transportation impacts would be less than significant during the construction of the Proposed Project.

4.3 Construction Parking

Contractors will be required to park within the limits of the project site in designated equipment and material staging areas. Construction workers would park in designated spaces within proximity to the project site and the contractor may elect to have high occupancy vehicles transporting construction workers on and off site daily. As noted in Section 4.1, 10 construction workers are anticipated to access the site on a daily basis. As such, the anticipated parking demand during Proposed Project construction would be a maximum of 10 parking spaces.

No parking lots will be used for construction staging or laydown. Designated areas (existing) at or near the construction site will be utilized for staging or laydown.

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[2] Page 10 of OPR's *Technical Advisory* states "Based on OPR's extensive review of the applicable research, and in light of an assessment by the California Air Resources Board quantifying the need for VMT reduction in order to meet the State's long-term climate goals...."