

# Red Lion

Red Lion is developing environmental solutions to alleviate the impacts of oil spills, flooding or water contaminated by chemical pollutants.



## PILOT PROJECT

In 2017, Red Lion Chem Tech (Red Lion) partnered with the Port of San Diego to demonstrate their adsorbent media filtration technology designed to remove dissolved copper in seawater. Red Lion is a remediation company specializing in developing environmental solutions to alleviate the impacts of oil spills, flooding or water contaminated by chemical pollutants. The company principals have over 30 years of experience assisting in the development and growth of technology start-ups.

The goal of the one-year pilot project is to demonstrate the efficiency of the media filtration technology under both a passive (Ballast Flow Through) and active (Pump and Treat Flow Through) filtration systems. The pilot project is expected to determine the cost-effectiveness and potential Baywide scalability of the technology in harbor environments.

## CURRENT STATUS

In support of the pilot, the Port provided funding, and permitting, and environmental review as well as access to Port-controlled land in San Diego Bay to test Red Lion's technology. The pilot is scheduled to take place during Phase 2 of the Boatwash pilot project.

## HIGHLIGHTS



Red Lion conducted laboratory demonstrations of their technology using San Diego Bay water with test results showing up to 85% efficiency in removing copper.

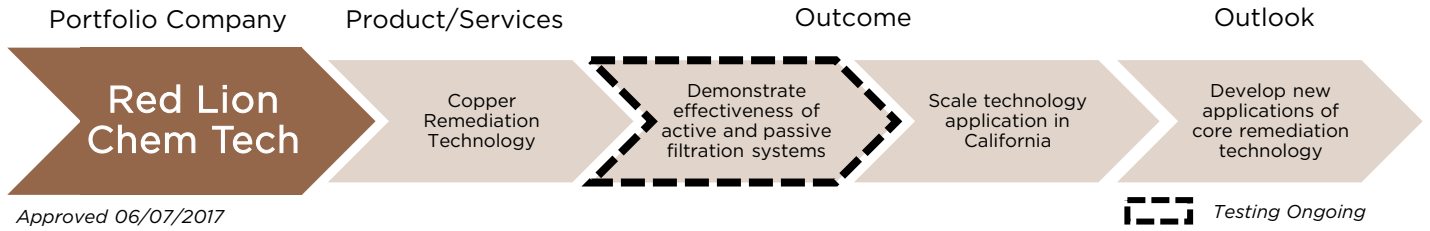


# Scorecard: Red Lion / FY21-22

PILOT TIMELINE: Board Approval: 06/20/2017 Start Date: TBD End Date: TBD

## PILOT OVERVIEW

*Tracking progress from pilot project to commercial success*



## KEY PERFORMANCE INDICATORS & HIGHLIGHTS

OVERALL KPI	Amount of total and dissolved copper removed	Effect on bay water quality and load removal	Amount of resin used, and cost associated with production and analysis
TBD	This pilot project is scheduled to take place during Phase 2 of the Boatwash pilot project, where advanced filtration systems and emerging copper remediation technologies will be tested for their potential to collect dissolved copper released during hull cleaning. Red Lion copper remediation technology will be tested by filtering water in an active Pump and Treat Flow-Through (P&T) system and a Passive Flow-Through (PASS) system.		



Active filtration device system to be tested in the field using Red Lion patented copper remediation resin technology.