



Progress Report

Progress Report # 5

Reporting Period: March 21 to
October 31, 2013

Submittal Date: **November 3, 2013**

Agreement No: 10-414-550

Project Name: Newport Coast ASBS Protection Implementation Program

Contractor Name: City of Newport Beach

Program Director: Robert Stein

Summary of Work Completed to Date:

| <u>Task</u> | <u>Deliverable by Subtask #</u> | <u>% of Work Complete</u> | <u>Date Submitted</u> |
|--|---|--------------------------------------|----------------------------------|
| A. Plans and Compliance Requirements | 2.1 Project Assessment and Evaluation Plan | 100% | |
| | 2.2 Monitoring Plan | 100% | |
| | 2.3 Quality Assurance Plan | 100% | |
| | 2.4 Data Management | 50% | |
| | 6. Signage | 100% | |
| B. WORK TO BE PERFORMED BY GRANTEE | | | |
| 1.0 Runoff Reduction Program (Consultant: Valley Soils) | 1.1 Prepare assessments | 100% | |
| | 1.2 Marketing campaign | 100% | |
| | 1.3 Irrigation evaluations | 100% | |
| | 1.4 Baseline monitoring | 100% | |
| | 1.5 Installations | 100% | |
| | 1.6 Verification inspections | 100% | |
| | 1.7 Outreach | 100% | |
| | 1.8 Program effectiveness evaluation | 50% | |
| 2.0 Buck Gully Erosion Control/Wetlands Project and Storm Drain Infiltration Gallery (Contractor: ECI; Consultant: Weston Solutions) | 2.1 Buck gully Erosion Control/wetlands project | 100% | 3/28/13 |
| | 2.2 Storm Drain Infiltration Gallery | 100% | |
| 3.0 Crystal Cove Park Parking Lot Improvements (Consultant: Weston Solutions) | 3.1 Design | 100% | 3/28/13 |
| | 3.3 Construction | 100% | |
| 4.0 Los Trancos Pond Improvement Project (Consultant: Weston Solutions) | 4.1 Design | 100% | 3/28/13 |
| | 4.3 Construction | 100% | |

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|---|--------------------------------|------|---------|
| 5.0 Pesticide Management Program | 5.1 Pesticide use campaign | 100% | 3/28/13 |
| | 5.2 Workshops | 100% | 3/28/13 |
| | 5.3 CASQA participation | 100% | 3/28/13 |
| 6.0 Public Impact Reduction | 6.1 Program Development | 75% | |
| | 6.2 Interpretive signage | 90% | |
| | 6.3 Monitoring | 50% | |
| 7.0 Little Corona Rocky-intertidal Restoration Pilot Program (Consultants: Cal-State Fullerton and Weston Solutions) | 7.1 Implement Pilot Program | 80% | |
| | 7.2 Biological survey | 70% | |
| 8.0 ASBS Collaborative Management Program (City is the lead on this task) | 8.1 Create centralized website | 90% | |
| | 8.2 Ecosystem impact metric | 25% | |
| | 8.3 Annual report | 0% | |

Introduction

This grant project implements eight tasks to protect water quality and habitat of the ASBS through projects and public outreach. Highlights for the latest period include:

- **Task 1:** The requirements for the runoff reduction program have essentially been completed with over 1000 residential irrigation controllers having been installed in Newport Coast. This program has been well received by the community.
- **Tasks 2.2, 3 and 4:** The Shorecliff storm drain infiltration gallery project, Crystal Cove State Park infiltration project and the Los Trancos Pond restoration project have been successfully constructed.

Overall, Program tasks are nearing 90 percent complete and we continue to be on track to meet the contract schedule. The remaining tasks include completion of the Public Impact study and monitoring (Task 6), the Intertidal Study (Task 7), project monitoring effectiveness (Task 1.8), ecosystem impact metric (Task 8.2) and the final reporting.

Task Accomplishments

This section describes the work completed in the past period for completing each of the contract tasks.

TASK A: Project Assessment and Evaluation Plan (PAEP), Monitoring Plan, Quality Assurance Project Plan (QAPP) and California Environmental Quality Act

Tasks 2.1, 2.2 and 2.3 - These tasks are completed.

Task 2.4 –This task is on-going. We are coordinating with SCRIPPS on the data collection and using the results to inform the monitoring, study questions and methods. The collaboration includes identifying the importance of fresh water inputs from both storm drains and larger regional sources including the

canyon creeks and Newport Harbor as potential sources of temporary impacts to the ASBS. These findings are important in developing the impact metric as a tool to assess impacts to ASBS and the potential sources of the impacts using a weight of evidence approach.

Task 6 –Recognition signage were posted at Shorecliff storm drain infiltration gallery project, Crystal Cove State Park infiltration project and the Los Trancos Pond restoration project. This task is now completed.

TASK B – WORK TO BE PERFORMED

Task 1.0 Runoff Reduction Program

Over 1,000 smart irrigation controllers and 20,000 high efficiency irrigation nozzles have been installed in Newport Coast. Under this task, the remaining subtask includes determining water usage reductions.

Task 2.0 Buck Gully Erosion Control/Wetlands Project and Storm Drain Infiltration Gallery

Task 2.1: Buck Gully Erosion Control/Wetlands Project

This task is completed.

Task 2.2: Shorecliff Storm Drain Infiltration Galley

This project has been successfully completed. Project photographs and As-Built drawings are attached.

Task 3 Crystal Cove Park Parking Lot Improvements

This project has been successfully completed. Project photographs and As-Built drawings are attached.

Task 4 Los Trancos Pond Improvement Project

This project has been successfully completed. Project photographs and As-Built drawings are attached.

Task 5 Pesticide Management Program

This task is complete.

Task 6 Public Impact Reduction

Task 6.1 – Reduce Public Impact: The customization of the vehicle to support and transport marine aquarium and touch tanks is still in progress. The vehicle is projected to be operation in by the end of the year.

Task 6.2 – Interpretive Signs: Signs have been fabricated. Photos of the installed signs will be attached in the next report.

Task 6.3 – Tidepool Monitoring: City docents continue to monitor use of the tidepools and are developing data that will be used to gauge changes.

Task 7 Little Corona Rocky-Intertidal Restoration Pilot Program

The Phase 1 portion of the project has completed examination of the impacts of two non-native seaweeds on native community structure and exploring the feasibility of removal in small scale experiments. The removal experiments resulted in quick recovery of the non-natives. The analysis will include our new understanding of non-native seaweed dynamics at that site, including understanding more about the non-native impact on the physical elements (temperature, light, etc.) and measures of chemical defenses in those seaweeds that deter herbivory (which will help elucidate potential herbivore roles in controlling the non-natives).

Phase 2 tasks began in February of this year where the potential role that native herbivores can have on removing non-natives and well as inhibiting recovery after manual removal is being examined.

Task 8 ASBS Collaborative Management Program

Task 8.1 – Centralized Website: Work continues for creating a website for enhancing coordination among ASBS stakeholders and conveying updates on work on ASBS. The website will include an Ocean Spaces tab and also a student citizen science tab, where students can contribute their observations to a virtual species inventory of local tidepools. We are in the process of obtaining permission from NOAA to add different videos as well. This new site will be linked to the City's site.

Task 8.2 – Impact Metric: Monitoring continues with one storm event and two more dry season measurements to be performed.

SCHEDULE AND BUDGET

We are now in the 31st month of this 36 month grant (approximately 86% through the duration of the contract) and we are approximately 85-90% complete, so project tasks are tracking nicely. The second invoice will be submitted within the second month to account for 80% of the total contract budget.

Submitted by: _____ Date: _____

Attachments:

Task 2.2: Shorecliff Road Infiltration Gallery – Photos, Signed Drawings and As-Built Drawings

Task 3: Reef Point Parking Lot Improvements - Photos, Signed Drawings and As-Built Drawings

Task 4: Los Trancos Pond Improvements - Photos, Signed Drawings and As-Built Drawings

Task 6.2 Photos of Interpretive Signs