Meetings Minutes:
Wednesday, January 29, 2019
9:00am - 11:00am
City of Monrovia, Monrovia Room
321 S. Myrtle Ave Monrovia, CA 91016

Attendees

Committee Members and Alternates:
Mark Lombos (LA County)
Julian Juarez (LA County Flood Control District)
Kelly Gardner (Main San Gabriel Basin)
Kristen Ruffell (Sanitation Districts)
Michael Hurley (Cal Water)
Brent Maue (City of Pasadena Parks and Recreation)

Committee Members Not Present
Tom Love (Upper San Gabriel Valley Municipal Water District)
Ron Miller (LA/OC Building Trades)

See attached sign-in sheet for full list of attendees

1. Welcome and Introductions

Mr. Carlson of Sierra Madre, the Chair of the Rio Hondo welcomed all of the members and confirmed a quorum of the committee was present. All committee members made self-introductions.

2. Approval of Meeting Minutes from January 15, 2020

The Los Angeles County Flood Control District (District) provided a copy of the meeting minutes from the previous meeting. Mr. Carlson asked the committee members for comments or revisions.

Mr. Dolphin made a motion to approve the meeting minutes from January 15, 2020. Mr. Maue seconded the motion. The committee voted to approve the meeting minutes from January 15, 2020 (unanimous).

3. Committee Member and District Updates

Mr. Kevin Kim (District) provided clarification on the Technical Resources Program, a summary of the new Ex Parte and COI Q&A guideline document, and a summary of the scoring progress so far by the Scoring Committee (SC).

Mr. Kim presented committee members with a WASC Review Sheet for each presentation which contains targeted questions consistent with the Stormwater Investment Plan Criteria described in
4. Public Comment Period
No public comment.

5. Voting Items:
None.

6. Discussion Items:
   a. TRP: Vincent Lugo Park Stormwater Capture Feasibility Study (City of San Gabriel)

   Presentation by Greg Jaquez. The project concept consists of diversion of stormwater runoff in the Alhambra Wash Channel to potential configurations of bioswales, mechanical treatment systems, storage cisterns, and subsurface infiltration galleries in Vincent Lugo Park. Discussion followed.

   Mr. Carlson asked if the project is currently included in ULAR EWMP. Mr. Jaquez confirmed that the project is not currently included in ULAR EWMP but is similar/ancillary to Almansor Park Project. The Almansor Park Project may request funding through the Technical Resources Program in July. The committee also identified other nearby projects and stressed the need for coordination during the design phase.

   The committee discussed outreach/engagement for the Technical Resources Program (TRP). The District clarified that the Technical Assistance Teams will work closely with the project applicant to develop an outreach/engagement plan to meet the feasibility study requirements. Additional guidance will be provided at a later date. The applicant plans to leverage the stakeholder list for the Parks Master Plan. The Watershed coordinators may be involved in outreach/engagement and coordination between projects.

   The committee stressed the need to maximize city benefits and provide measurable improvements to water quality to comply with MS4 permits.

   Ms. Crudgington asked about the Municipal Program and noted that the applicant could leverage municipal funds for this project. Mr. Kim clarified that municipalities are required to submit annual reporting to ensure funds are used for eligible expenditures.

   b. SS: preSIP: A Platform for Watershed Science and Project Collaboration (San Gabriel Valley Council of Governments)

   Presentation by Chad Helmle, President of Craftwater Engineering. As a precursor to the Stormwater Investment Plans (SIP), this preSIP Scientific Study will support the WASC and the SGVCOG by developing a platform to consolidate intertwined goals and disparate project proposals into a balanced, collaborative, and cost-effective plan. Discussion followed.
Mr. Lombos asked how this effort would be integrated into the Rio Hondo/San Gabriel rEWMP efforts. Mr. Helmle stated that the groundwork for the rEWMP will likely stay intact, and the preSIP would build the rest of the program around that concept.

The committee discussed why a similar tool was not already incorporated into the program. It was noted that there are many different masterplans with varying priorities and interests, so the data has not been centralized and there are no comprehensive analytics available and also very costly to develop this kind of tool. The Watershed Coordinator will not have the technical or analytical capacity to conduct this type of analysis, so there would be no overlap in responsibilities.

Mr. Carlson noted that this project would require 36% of the allocated funding available for Scientific Studies each year.

Mr. Juarez asked how excess funds would be addressed. Mr. Kim clarified that excess funds for each WASC would be carried over to the next fiscal year.

Ms. Crudgington asked if other watersheds would benefit from this project. Mr. Helmle clarified that separate funding requests were sent to Upper Los Angeles River and Rio Hondo WASCs only.

c. SS: Load Reduction Strategy Adaptation to Address the LA River Bacteria TMDL for the ULAR Watershed Management Group (San Gabriel Valley Council of Governments)

Presentation by Brianna Datti, Water Resources Engineer at Tetra Tech. The ULAR Group has asked the SGVCOG to submit a scientific studies application under the Safe, Clean Water Program on their behalf to pursue the necessary funding for development of a Load Reduction Strategy (LRS) adaptation plan, with the goal to adapt the LRS to better align implementation actions in order to successfully reduce potential health risks to recreators. Discussion followed.

Mr. Lombos asked about discussions with the Regional Water Quality Control Board (RWQCB). Ms. Datti stated that the RWQCB’s mission is in line with the intent of LRS and they would likely be a partner. Conversations are currently ongoing.

Mr. Carlson noted that the LRS adaption plan may go hand in hand with the homeless efforts in the region.

d. SS: Regional Scientific Study to Support Protection of Human Health through Targeted Reduction of Bacteriological Pollution (Richard Watson & Associates)

Presentation by Richard Watson. Overview of a proposed Regional Scientific Study that will use the latest available technologies and approaches to measure waterborne pathogens across Safe Clean Water Program watersheds to help identify key sources of human health risk, develop cost-effective strategies that better protect human health, and support the regulatory shift needed to accommodate a modernized approach. Discussion followed.

Ms. Ruffell asked how the three proposed Scientific Studies would interact with one another. The applicants noted that there would be no overlap and that their efforts would complement one another. The Regional Scientific Study would focus on regulatory updates and targeting investments. The LRS adaption plan would focus on source
ID/abatement and could feed into the Regional Scientific Study. The analysis from both studies can then be folded into the preSIP to assist with decision making.

Mr. Watson clarified that the Project Lead will likely be the Gateway Water Management Authority pending execution of the Transfer Agreement.

7. **Items for next agenda**
   
   Mr. Kim stated that the District will present the 5-year Expenditure Projections and the SIP Planning Tool at the next meeting.

8. **Adjournment**
   
   Mr. Carlson thanked the committee members and public for their time and participation and adjourned the meeting.
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<td>Julian Juarez</td>
<td>FCD</td>
<td><a href="mailto:JUAREZ@dwp.lacounty.gov">JUAREZ@dwp.lacounty.gov</a></td>
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<tr>
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<tr>
<td>Brent Maue</td>
<td>City of Pasadena Department of Public Works</td>
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<td>Kristen Ruffell</td>
<td>Sanitation Districts</td>
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<td>Upper San Gabriel District</td>
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<tr>
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January 29, 2020
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January 29, 2020
Load Reduction Strategy Adaptation to Address the LA River Bacteria TMDL for the Upper Los Angeles River Watershed Management Group

Watershed Area Steering Committee Meeting
January 29, 2020

Study Lead: San Gabriel Valley Council of Governments on behalf of the ULAR Watershed Management Group (19 Agencies)

Presenter: Brianna Datti, Tetra Tech
brianna.datti@tetratech.com (603)988-6997

Clint Bosch, Tetra Tech
clint.boschen@tetratech.com (703)593-1803

Upper Los Angeles River a Unique and Diverse Watershed Management Area

- 19 Permittees
- Open space/forest upstream and downstream urbanized
- 31.5 miles of LA River and 11 Tributaries
Upper Los Angeles River a Unique and Diverse Watershed Management Area

- Challenge to protect recreational beneficial uses, threatened by bacteria impairments

Bacteria Most Immediate (and Costly) Regulatory Deadline

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<th>Year</th>
<th>LAR Nitrogen Compounds</th>
<th>LAR Trash</th>
<th>LAR Metals (31%)</th>
<th>LAR Bacteria (1st Dry Weather)</th>
<th>LAR Metals (50%); LA Lakes</th>
<th>LAR Metals</th>
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- **Dry Weather Strategy:**
  - Load Reduction Strategy (LRS)
    - 16 prioritized segments
    - Submitted 5 LRS’s
    - 2 completed projects, other’s issues with implementation

- **Wet Weather Strategy:**
  - Additional Structural BMPs:
    - 1,218 acre-ft
    - $2.6 Billion (Capital)
    - Annual O&M increases $34 Million
Challenges with LRS Implementation

- Requested extensions for:
  - Segment B - Mainstem Los Angeles River
  - Segment B (Tributary) - Arroyo Seco
  - Segment B (Tributary) - Rio Hondo (pending decision)

Encountered Numerous Issues during Implementation

- Negotiations with Private Parties
- Soil Contamination
- Traffic Mitigation
- Utility Conflicts
- Heavily Urbanized
- High Groundwater
- Underground Storage Tanks

Example of Continued LRS Challenges

- Arroyo Seco
  - Four priority outfalls
  - High Groundwater
  - Negotiations with Private Parties
  - Water Rights
  - Soil Contamination
Fecal Indicator Bacteria (FIB) vs Pathogens

FIB are indicators of pathogens but do not cause illness directly.

Adaptive Management of LRS

**Current Approach**
- Load Reduction Strategy
- Uncertain Beneficial Use Attainment

**New Proposed Approach**
- Load Reduction Strategy
- Assured Beneficial Use Attainment
- Strategic Work Plan to Prioritize Source ID and Abatement Efforts
Adaptive Management of LRS

**Current Approach**

- Load Reduction Strategy
- Uncertain Beneficial Use Attainment

**New Proposed Approach**

- Load Reduction Strategy
- Strategic Work Plan to Prioritize Source ID and Abatement Efforts
- Assured Beneficial Use Attainment

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**Outcomes & Benefits**

- Refine prioritized investigation/abatement areas based on feasibility and effectiveness
- Evaluate potential pathogen sources, ID data gaps, monitoring to fill, and appropriate abatement actions
- More cost-effective implementation actions, protective of beneficial uses
- Potential to leverage methods and data region-wide
- Coordination with stakeholders and Regional Board, to ensure align with regulatory expectations

[Link](http://www.onwatersheds.com/documents/south_oc_water_quality_improvement_plan_wqip/comprehensive_human_waste_source_reduction_strategy_work_plan)
Outcomes & Benefits

Safe, Clean Water Program Objectives Addressed:

• Improve water quality and contribute to attainment of water quality requirements
  ▪ Progress toward attainment of bacteria-related water quality objectives
• Improve public health by preventing and cleaning up contaminated water
  ▪ Focused on protecting public health
• Encourage innovation and adoption of new technologies and practices
  ▪ Applying significant advances in scientific understanding of bacteria-related issues
• Implement an iterative planning and evaluation process to ensure adaptive management
  ▪ Plan itself is adaptive management
• Promote green jobs and career pathways
  ▪ Source ID/Abatement efforts require appropriate staffing

Schedule and Budget for FY 20-21

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<td>Data Collection and Review</td>
<td>Initial Prioritization and Findings for Segment B</td>
<td>Preliminary SAP and QAPP for Segment B</td>
<td>Begin Source Tracking Study for Dry Weather for Segment B</td>
<td>- Update Prioritization for ULAR Region</td>
<td>- LRS Adaptation Plan Technical Deliverables</td>
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• Cost FY 20-21: $250K
  □ Upper Los Angeles River: $192,500
  □ Rio Hondo: $57,500

• Phase II: FY 21-22, 22-23 – Continue source ID/abatement based on LRS Adaptation Plan findings, schedule focused on earliest regulatory deadlines
Questions?

Supplemental Slides
## Comparison of Proposed Bacteria Studies

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<th>Regional Bacteria Study</th>
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<td><strong>SCOPE</strong></td>
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<td>Longer term outcomes, after TMDL milestones</td>
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<td><strong>SPATIAL EXTENT</strong></td>
<td>Upper Los Angeles River Watershed Management Area</td>
<td>Los Angeles County</td>
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<td><strong>RELATIONSHIP TO OTHER STUDY</strong></td>
<td>Compliments the Regional Bacteria Study, but not dependent on it’s outcomes</td>
<td>Leverage findings from the LRS Adaptation Study</td>
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## Estimated Total Budget

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*May be updated based on LRS Adaptation Plan findings from Year 1
**LA River Bacteria TMDL Language**

- Demonstrate that *non-compliance is due to upstream contributions*

- Reconsider TMDL based upon technical studies or policy changes, including but not limited to:
  - Alterations to recreational beneficial use designations
  - Revision of US EPA recommended bacteria criteria, Regional Board or State Board bacteria standards
  - Expansion of the HFS provisions
  - Technical evaluations of natural and anthropogenic sources of bacteria, including viable alternatives to defining natural or anthropogenic sources of bacteria
  - Natural sources exclusion
Overview of Proposed Scientific Study

Richard Watson, Richard Watson & Associates, Inc. (RWA)

Presentation to Rio Hondo WASC

29 January 2020

Overview

- Bacteria Challenges
- Nexus to Stormwater Capture
- Objectives of Study
- Scientific Study Approach
- Scientific Study Schedule and Cost Estimate
- Summary of Study
E/WMP Groups Addressing Bacteria

Wet Weather Average Concentrations: LA County Land Uses

Source: LA County land use pollutant loading (SCWRRP 2007)
Nexus to Stormwater Capture and Study Objectives

- Nexus to Stormwater Capture
  - Study will facilitate improved targeting of sources and water to capture
  - Study could reduce need to capture stormwater for bacteria compliance purposes

- Objective of Study
  - Leverage recent research
  - Produce strategies for incorporation into Program Plans
  - Support regulating agencies in making informed decisions

Scientific Study: Initial Steps

- Small Group Initiated Discussions
  - City and County of LA; LLC, LLAR, LSGR; and LWA

- Developed Special Study Approach
  - Apply state of the science to LA County specific issues
  - Built a scope for Measure W Regional Program funded study that each group can elect to participate (or not)

- Presented Approach E/WMP Groups
- Discussed with Regional Board staff
What will the study do?

Task 1 Stakeholder Process

<table>
<thead>
<tr>
<th>Task 2</th>
<th>Task 3</th>
<th>Task 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Risk Assessment</td>
<td>Risk Management</td>
<td>Regulations</td>
</tr>
<tr>
<td>Requirement Type</td>
<td>Source(s) targeted</td>
<td>Compliance</td>
</tr>
<tr>
<td>Target Type</td>
<td>Control Measures</td>
<td></td>
</tr>
</tbody>
</table>

CURRENT APPROACH:

<table>
<thead>
<tr>
<th>Fecal indicator bacteria</th>
<th>MPN per 100mL below WQO</th>
<th>All sources</th>
<th>Widespread retention plus source control</th>
<th>Achieve default statewide FIB-based WQOs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement of Risk (e.g., Human Markers)</td>
<td>Risk less than 32/1000</td>
<td>Risky Sources</td>
<td>Targeted retention plus targeted source control</td>
<td>Achieve risk-based, LA region-specific Basin Plan and/or MS4 Permit provisions</td>
</tr>
</tbody>
</table>

FRAMEWORK TO BE DEVELOPED BY STUDY:

Potential Cost Savings

Study Schedule

<table>
<thead>
<tr>
<th>Task</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Task 1 – Stakeholder Process</td>
<td></td>
</tr>
<tr>
<td>Task 2 – Risk Assessment</td>
<td></td>
</tr>
<tr>
<td>Task 3 – Risk Management</td>
<td></td>
</tr>
<tr>
<td>Task 4 – Regulatory Revisions</td>
<td></td>
</tr>
</tbody>
</table>
Measure W Scientific Study Funding

- Funding is now available to address issue through studies
- Multi-year studies eligible for scientific study funding (5% of regional program funds)

<table>
<thead>
<tr>
<th>Watershed Area</th>
<th>Estimated Available Regional Funding for Special Studies</th>
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<tbody>
<tr>
<td></td>
<td>Annual*</td>
</tr>
<tr>
<td>Central Santa Monica Bay</td>
<td>$890,000</td>
</tr>
<tr>
<td>Lower Los Angeles River</td>
<td>$640,000</td>
</tr>
<tr>
<td>Lower San Gabriel River</td>
<td>$835,000</td>
</tr>
<tr>
<td>North Santa Monica Bay</td>
<td>$90,000</td>
</tr>
<tr>
<td>Rio Hondo</td>
<td>$575,000</td>
</tr>
<tr>
<td>Santa Clara River</td>
<td>$300,000</td>
</tr>
<tr>
<td>South Santa Monica Bay</td>
<td>$920,000</td>
</tr>
<tr>
<td>Upper Los Angeles River</td>
<td>$1,930,000</td>
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<tr>
<td>Upper San Gabriel River</td>
<td>$945,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$7,125,000</strong></td>
</tr>
</tbody>
</table>

* Assumes Measure W revenue of $285,000,000/year.

Cost Estimate

<table>
<thead>
<tr>
<th>Tasks</th>
<th>Cost Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Task 1- Stakeholder Process</td>
<td>$490,000</td>
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<tr>
<td>Task 2- Risk Assessment</td>
<td>$5,880,000</td>
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<tr>
<td>Task 3- Risk Management</td>
<td>$2,940,000</td>
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<tr>
<td>Task 4- Regulatory Revisions</td>
<td>$490,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$9,800,000</strong></td>
</tr>
</tbody>
</table>
### Watershed Area Cost Allocations – Los Angeles County Bacteria Scientific Study

<table>
<thead>
<tr>
<th>Watershed Area</th>
<th>% Share of Budget for Study *</th>
<th>Projected SCWP Scientific Study Funds</th>
<th>Study Contribution by Watershed Area</th>
<th>Percent of SCWP Scientific Study Funds over 5-Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Santa Monica Bay</td>
<td>12.5%</td>
<td>$890,695</td>
<td>$4,453,125</td>
<td>$1,224,282</td>
</tr>
<tr>
<td>Lower Los Angeles River</td>
<td>8.98%</td>
<td>$639,825</td>
<td>$3,199,125</td>
<td>$880,257</td>
</tr>
<tr>
<td>Lower San Gabriel River</td>
<td>11.72%</td>
<td>$835,050</td>
<td>$4,175,250</td>
<td>$1,148,559</td>
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<tr>
<td>North Santa Monica Bay</td>
<td>1.26%</td>
<td>$99,775</td>
<td>$484,875</td>
<td>$123,786</td>
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<tr>
<td>Rio Hondo</td>
<td>0.07%</td>
<td>$574,988</td>
<td>$2,874,938</td>
<td>$790,860</td>
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<tr>
<td>Santa Clara River</td>
<td>4.21%</td>
<td>$299,962</td>
<td>$1,499,812</td>
<td>$412,629</td>
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<tr>
<td>South Santa Monica Bay</td>
<td>12.91%</td>
<td>$919,838</td>
<td>$4,599,188</td>
<td>$1,265,369</td>
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<tr>
<td>Upper Los Angeles River</td>
<td>27.59%</td>
<td>$1,930,162</td>
<td>$9,650,812</td>
<td>$2,654,816</td>
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<tr>
<td>Upper San Gabriel River</td>
<td>13.26%</td>
<td>$944,775</td>
<td>$4,723,875</td>
<td>$1,299,442</td>
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<tr>
<td>Total</td>
<td>100%</td>
<td>$7,125,000</td>
<td>$35,625,000</td>
<td>$9,800,000</td>
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</tbody>
</table>

1. Costs assume participation by all Watershed Areas, which increases efficiency of the study. Costs will need to be recalculated if not all Watershed Areas participate. Projected SCWP Scientific Study Funds are based on $1.425 million in annual funds for the regional program (25% of which is available for scientific studies).

2. Percent of Total Budget is based on a proportional distribution of the costs based on the SCWP taxable impervious area.

### Watershed Area Cost Allocations – Annual Cost Estimates to Implement Bacteria Study

<table>
<thead>
<tr>
<th>Watershed Area</th>
<th>Study Year</th>
<th>Total Budget</th>
<th>Projected Scientific Study Funds Available</th>
<th>% of Funds Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Santa Monica Bay</td>
<td>1 $330,750</td>
<td>$330,750</td>
<td>$330,750</td>
<td>$330,750</td>
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<tr>
<td></td>
<td>2</td>
<td>$330,750</td>
<td>$330,750</td>
<td>$330,750</td>
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<td></td>
<td>3</td>
<td>$116,016</td>
<td>$116,016</td>
<td>$116,016</td>
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<tr>
<td></td>
<td>4</td>
<td>$330,750</td>
<td>$330,750</td>
<td>$330,750</td>
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<tr>
<td></td>
<td>5</td>
<td>$116,016</td>
<td>$116,016</td>
<td>$116,016</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>$2,646,000</td>
<td>$2,646,000</td>
<td>$2,646,000</td>
</tr>
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</table>

1. Costs assume participation by all Watershed Areas, which increases efficiency of the study. Costs will need to be recalculated if not all Watershed Areas participate. Projected SCWP Scientific Study Funds are based on $1.425 million in annual funds for the regional program (25% of which is available for scientific studies).

2. Percent of Total Budget is based on a proportional distribution of the costs based on the SCWP taxable impervious area.
Summary of Study

- Will use latest available technologies to measure water-borne pathogens across watersheds.
- Will help identify key sources of human health risk, develop cost-effective protective strategies, and support needed regulatory shifts in support of this approach.

- To make this successful, can't just be technical
- Best way to focus on risk in the region
- The time is now.

Questions and Thank You

Richard Watson
Richard Watson & Associates
rwatson@rwaplanning.com
(949) 394-8495
preSIP
A Platform for Watershed Science and Project Collaboration

A Safe, Clean Water Scientific Study Proposal | 29 Jan 2020 | RH WASC

Why Are We Here?
\$6B+ to address water quality alone

All Eyes on the WASC
Building Your Best SIP

SIP Needs to Be:
• Efficient & Balanced

$100M
(1/3 of SCWP)

SIP
Building Your Best SIP

SIP Needs to Be:
• Efficient & Balanced
• Defensible & Collaborative
• Science-Driven Assurance of Compliance

COMPLIANCE TARGET (CLEAN WATER)

Building Your Best SIP

SIP Needs to Be:
• Efficient & Balanced
• Defensible & Collaborative
• Science-Driven Assurance of Compliance
• Adaptable & Accessible
preSIP is Here to Help
preSIP is Here to Help
preSIP is Here to Help

PROJECTS

EWMP

NOW

DEADLINE

WASC

WATER QUALITY

WATER SAFETY

CONTROL

COMPLIANCE

TARGET

preSIP is Here to Help

PROJECTS

EWMP

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COMPLIANCE

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PROJECTS

COMPLIANCE TARGET

NOW

DEADLINE

preSIP is Here to Help

PROJECTS

COMPLIANCE TARGET

NOW

DEADLINE
preSIP is Here to Help

PROJECTS PATHWAY

EWMP

NOW

COMPLIANCE TARGET

DEADLINE
preSIP is Here to Help

PROJECTS PATHWAY

COMPLIANCE TARGET

EWMP

NOW

DEADLINE

WATER QUALITY

LOCAL CONTEXT

COMMUNITY ENGAGEMENTS

NATURE-BASED SOLUTIONS

preSIP is Here to Help

PROJECTS PATHWAY PLATFORM
preSIP is Here to Help

preSIP

PROJECTS PATHWAY PLATFORM

preSIP is a scientific study to build a platform for collaboration that can BALANCE and AMPLIFY your SIP outcomes

- Efficient & Balanced
- Defensible & Collaborative
- Science-Driven Assurance of Compliance
- Adaptable & Accessible

CANDIDATE FEASIBILITY STUDIES

OTHER POTENTIAL PROJECTS

BEST SIP
Beyond Proof-of-Concept

The Proof of
SIMILAR CASE STUDIES

-$4.5B
Watershed-Wide
Support for the preSIP Study

ULAR WATERSHED MANAGEMENT GROUP
(REPRESENTING 19 PARTNER AGENCIES ACROSS ULAR AND RH)
### What Makes it Special

<table>
<thead>
<tr>
<th>preSIP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COVERAGE</strong></td>
</tr>
<tr>
<td>ULAR and Rio Hondo Watershed Areas</td>
</tr>
</tbody>
</table>
## What it Will Take

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ULAR</td>
<td></td>
<td></td>
<td></td>
<td>$1.9M</td>
<td>$2.8M</td>
</tr>
<tr>
<td>RH</td>
<td></td>
<td></td>
<td></td>
<td>$0.6M</td>
<td>$1.2M</td>
</tr>
</tbody>
</table>

### PROJECT STRATEGY & PATH
- ADAPTIVE PLATFORM

### The ULAR Pilot Study
- Quantified benefits and savings of collaborative, watershed-based approach
- Getting the science right
- Designing a clear, flexible pathway
- Lowering costs
Watershed Context Matters
Exploring Adaptive Watershed Management

- Current plans are coarse and costly.
- Adaptive management provides a mechanism to build more effective program by...
  - Getting the science right
  - Designing a clear, flexible pathway
  - Lowering costs
A Unique Scientific Study to Meet All Safe, Clean Water Objectives

- Improve WQ
- Capture water
- Public health
- Leverage other funding
- Invest in multi-benefit infrastructure
- Prioritize nature-based solutions
- Neighborhood and regional scale
- Innovation, new technology
- Independent scientific research
- Proportional municipal funds
- Proportional DAC benefits
- Iteratively/adaptively manage
- Green jobs
- Ongoing O&M
Vincent Lugo Park
Stormwater Capture Project

Feasibility Study

PRESENTED BY THE CITY OF SAN GABRIEL
GREG JAQUEZ, PE
GJAQUEZ@MNSENGINEERS.COM, (323) 797-1498
JANUARY 29, 2020

Project Location / Site
Project Description

- Diversion of Stormwater Runoff in the Alhambra Wash Channel
- Bioswales
- Storage Cisterns
- Subsurface Infiltration Galleries

Feasibility Study Scope

- Potential Groundwater Recharge of Local Water Supplies
- Potential Water Reuse for Park Irrigation
- Potential Community Education Benefits
- Potential Study of Green Streets in the Upstream Catchment
Vincent Lugo Park Stormwater Capture Project

Project Outreach

- Initiate Discussions with City of Alhambra and San Gabriel County Water District
- Organize outreach events for adjoining San Gabriel neighborhoods
- Additional discussion venues
  - City Council
  - Community Services Commission
  - Historical Preservation & Cultural Resource Commission
  - San Gabriel Unified School District
  - Little League Baseball
- Feasibility Study will include comprehensive outreach program

Funding Details

Funding

- Feasibility Study Cost - $300,000
- No matching funds
- Grant Request - $300,000
- Matching Funds Source – None
- O&M Costs Per Year – Not Applicable for Feasibility Study

Partners (to be determined/confirmed)

- City of Alhambra
- SGCWD
- Upper San Gabriel Valley MWD
Vincent Lugo Park Stormwater Capture Project

Program Preferences

- Climate change response through drought resilience
- Regional water self-reliance through offset of water purchase from Upper San Gabriel Valley MWD
- Addresses SCW Program Goals
  - Protects local waters in Rio Hondo
  - New groundwater recharge opportunity in Raymond Basin
- Expected useful life of ~50 years
- Feasibility Study will initiate CEQA process

Benefits

Physical Benefits

- Improve stores of groundwater supplies
- Improve groundwater quality
- Reduce reliance on potable water for irrigation
- Enhance recreational facilities

Benefits Determination Method

- Feasibility Study will produce metrics on benefits through hydrologic, hydrogeologic, and economic analyses
Vincent Lugo Park Stormwater Capture Project

Estimated Budget

Table 1 – Feasibility Study Budget

<table>
<thead>
<tr>
<th>Category</th>
<th>Cost Share: Non-State Fund Source</th>
<th>Requested Grant Amount</th>
<th>Other Cost Share (including other State Sources)</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Administration</td>
<td>$30,000</td>
<td>$30,000</td>
<td></td>
<td>$30,000</td>
</tr>
<tr>
<td>Planning/Design/Engineering/Environmental Documentation</td>
<td>$270,000</td>
<td>$270,000</td>
<td></td>
<td>$270,000</td>
</tr>
<tr>
<td>Grand Total</td>
<td></td>
<td>$300,000</td>
<td></td>
<td>$300,000</td>
</tr>
</tbody>
</table>

Vincent Lugo Park Stormwater Capture Project

Feasibility Study Schedule

<table>
<thead>
<tr>
<th>Task</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct Project Administration</td>
<td>07/06/2020</td>
<td>06/30/2021</td>
</tr>
<tr>
<td>Planning/Design/Engineering/Environmental Documentation</td>
<td>09/07/2020</td>
<td>06/30/2021</td>
</tr>
</tbody>
</table>
Questions/Comments?

Thank You!