

San Gabriel River Regional Monitoring Program
Technical Stakeholder Group Meeting
January 18th, 2017

Attendees:

Phil Markle, LACSD
Josh Westfall, LACSD
Emiko Innes, LACDPW
Leslie Levy, LACDPW
Stuart Goong, OCPW
Rita Abellar, OCPW
Jonathan Humphrey, OCPW
Rich Gossett, IIRMES
Scott Johnson, Aquatic Bioassay
Karin Wisenbaker, Aquatic Bioassay
Joe Purohit, EcoLayers
Ashmita Sengupta, SCCWRP
Michael Lyons, LARWQCB

1. Special Study Proposal: Watershed/water quality/ supply optimization pilot study (SCCWRP): Ashmita Sengupta presented a proposal to the TSG for a special study to continue development of a modeling tool designed to provide watershed managers with a way to predict biotic condition of a stream reach based on predicted flow dynamics. Group members were intrigued, but did not authorize the study at this time indicating a need for more a more detailed work plan. Ashmita's presentation is attached to this email and will be discussed at our next meeting.

Action Item: Discuss Ashmita's Watershed/water quality/supply optimization pilot study at the next TSG meeting

2. Program Update
 1. 2016 Annual Report
 - i. Data analysis
 1. Freshwater Bioassessments
 - a. Toxicity – Dataset is finalized
 - b. Chemistry – Dataset is finalized
 - c. BMI – Dataset is finalized, CSCI scores have been calculated
 - d. Algae – Dataset is finalized, Algal IBI scores have been calculated
 - e. CRAM – Dataset is finalized, CRAM scores have been calculated
 2. High Value CRAM Sites
 - a. Dataset is finalized, CRAM scores have been calculated
 3. Estuary
 - a. Chemistry – Dataset is finalized, chemistry SQO has been calculated
 - b. Toxicity – Dataset is finalized, toxicity SQO has been calculated
 - c. Infauna- Sample sorting has begun

4. Estuary Sediment Quality Objectives have been calculated for each metric with the exception of benthic infauna
 5. Bacteria dataset is being finalized
 - a. Website – Bacteria website results will be finalized in the next two weeks.
 - i. Figures will be emailed to the group for review before they are posted to the website
 6. Bioaccumulation Results
 - a. Chemistry – Dataset is finalized
 - b. Update table
 - i. Add a new table comparing fish length and concentration
 - ii. Prey fish chemistry concentrations will be compared to the Wildlife Standard Thresholds
2. 2017 Summery Survey – assignments and analytes
- i. Bioaccumulation Sampling
 1. Conduct sampling at El Dorado Lake in May, 2016
 2. Continue Prey Fish Study
 - a. Focus on prey fish composites (whole fish composites) and analyze one to two composites of larger fish (muscle tissue)
 3. Michael Lyons, State started analyzing CECs PBDEs (47 and 49) and PFOS
 - a. Aquatic Bioassay will get pricing for the CEC constituents
 - i. TSG will decide whether or not to add the CEC constituents to the analyte list at the next meeting.
 - ii. Sampling Assignments Table
 1. Presented to the TSG
 2. Site SGUR00144, Graveyard Canyon, is a random revisit site and was originally sampled ~1.5 mi downstream of nominal coordinates due to accessibility issues
 - a. Sampling occurred in 2008 before the State finalized site rejection rules (sampling now occurs within 300 meters of nominal coordinates)
 - b. TSG decided to resample this site at the 2008 sampling (actual) coordinates
 3. Non-perennial sites have not been reconned, and might change if sites are inaccessible
3. 2017 Analyte List
- i. Freshwater
 1. Hardness
 2. Alkalinity
 3. Total Suspended Solids
 4. Turbidity NTU
 5. TOC
 6. DOC
 7. Dissolved solids
 8. Ammonia
 9. Nitrate
 10. Nitrite

11. TKN
 12. Total nitrogen (calculated)
 13. Total phosphorus
 14. Orthophosphate
 15. Trace metals (total and dissolved)
 16. Mercury (total and dissolved)
 17. Major Cations; chloride, sulfate
 18. Macroinvertebrate taxonomy
 19. Attached algae taxonomy
 20. Ash free dry weight, chlorophyll a
- ii. River Sediment
 1. TOC/TN
 2. Total phosphorus
 3. Total metals + mercury
 4. Pyrethroids + Fipronil
 - iii. Estuary Sediment
 1. Metals
 2. Mercury
 3. PAHs
 4. OC pesticides (DDT, PCBs)
 5. TKN
 6. TOC
 7. Total Phosphorus
 8. Sediment Pyrethroids
 9. Sediment Particle Size
 10. Sediment toxicity (Eohaustorius)
 11. Sediment toxicity (Mytilus development)
 12. Benthic macroinvertebrate taxonomy (estuary)
 - iv. Michael Lyons said the State is also analyzing CECs, PBDEs (47 and 49) and Fipronil
 - a. Aquatic Bioassay will get pricing for the CEC constituents
 - i. TSG will decide whether or not to add the CEC constituents to the analyte list at the next meeting.
 - v. Fish Tissue
 1. Arsenic and Selenium
 2. Mercury
 3. Methyl Mercury
 4. DDTs
 5. PCBs
4. 2017 QAPP
 - i. Updates to the 2017 QAPP have begun
 - ii. QAPP will be sent out to the TSG for review in February
 1. TSG will be given 2 weeks to review the QAPP
3. Data Portal
 1. EcoLayers will assess what it will take to make the SGRRMP data portal compatible with Internet Explorer

2. The map will include the following layers:
 - i. Watersheds
 - ii. Waterbodies (Lakes)
 - iii. Stream
3. Data Tables
 - i. Chemistry
 1. Fish Tissue; Fish Attributes (metrics)
 2. Estuary Sediment
 3. Freshwater
 4. Freshwater Sediment
 5. In Situ
 - ii. Riparian Zone Condition
 1. CRAM
 2. Physical Habitat Tables
 - iii. Biological Condition
 1. BMI Taxonomy
 2. CSCI Scores (MMI, O/E, CSCI)
 3. Algae Taxonomy
 4. Algae IBI (D18, S2, H20)
 5. Benthic Infauna Taxonomy
 - iv. Toxicity
 1. Sediment Toxicity
 2. Water Toxicity (no longer collected, note years collected)
4. Action Items
 1. Discuss Ashmita's Watershed/water quality/supply optimization pilot study at the next TSG meeting
 2. Finalize 2017 bacteria figures for website (Karin/Scott)
 - i. Figures will be emailed to the TSG for review before posting them to the website
 3. Update bioaccumulation tables (Karin/Scott)
 - i. Compare prey fish results to Wildlife Standard thresholds
 - ii. Add a new table comparing fish length and concentration
 4. Fish tissue and estuary sediment CEC pricing (Rich/Karin/Scott)
 5. Email TSG and ask if their group will post a link to the SGRRMP website (Scott)
 6. Try to make the data portal compatible with Internet Explorer (Joe)