

Land Development Workgroup HMP Monitoring Plan Implementation

July 12, 2011

Topics

- Copermitttee monitoring obligations
- Monitoring Sub-workgroup
- Consultant Support
- Timeline

Regional Board Required HMP Monitoring Plan

- Finalized Summer 2010 after negotiation with Regional Board, EPA, SD Coastkeeper/NRDC
- Cost > \$850k over the next 5 years
- Goal to confirm assumptions
 - which flows initiate channel bed movement
 - if required facilities meeting flow design criteria
 - assess effectiveness of our program in protecting streams and water quality.

Distribution of Monitoring Sites

- Upper watershed susceptibility to erosion
 - High: 3 replicates and 1 reference
 - Medium: 3 replicates and 1 reference
- Middle watershed monitoring
 - d/s of existing urbanized areas with watershed impervious areas > 40%
 - 2 sites
- Distributed throughout permit area hydrologic units to provide for geographic and climatic variability to the MEP

HMP Monitoring Sub-Workgroup

- Sub-workgroup of Land Development Workgroup
(still need a Chair)
- Development and Implementation of Monitoring Plan
 - Development of the QAPP (Brown and Caldwell)
 - Protocols/criteria for conducting cross section surveys, in stream flow and sediment monitoring, facility outflow monitoring
 - Site Selection (ESA-PWA)
 - Baseline Geomorphic Assessments (ESA-PWA)
 - Performed at each of 10 required monitoring stations
 - Initial assessment of the channel condition
 - SCCWRP channel assessment tool to determine lateral and vertical susceptibility to erosion

5-Year Plan Timeline

- 1st Year:
 - Site Selection
 - QAPP
 - baseline geomorphic assessment
- 2nd Year:
 - Rainfall gage installation
 - Flow and sediment monitoring station installation
 - Data Collection

5-Year Plan Timeline

- 3rd Year:
 - Geomorphic assessment
 - HMP facility monitoring station installation
 - Data collection
 - Interim Report
- 4th Year:
 - Geomorphic assessment & data collection
- 5th Year:
 - Final Geomorphic assessment & data collection
 - Final Report

Questions?

Thank You.