

Malibu Civic Center Stakeholders Meeting



**July 25, 2013
Malibu City Hall
8:30 a.m.**

Meeting Agenda



- Regional Water Quality Control Board
- Community Facilities District (CFD)
- Assessment District (AD)
- Wastewater Facility Design
- Questions/Comments
- Next Meeting August 29, 2013
- Adjourn

Regional Water Quality Control Board



- **April 17, 2013:** met with Dr. Eric Wu of the RWQCB (Groundwater and Permitting Unit)



- Discussed:

- ❖ Project milestones



- ❖ EIR



- ❖ CDP requirements



- ❖ Monitoring well and locations



- ❖ Test injection



- ❖ Pump testing of aquifer



- ❖ US EPA requirements



- ❖ Department of Public Health review



- ❖ Permits



Regional Water Quality Control Board



- Submitted all information for permit application to allow injection testing of the Civic Center Aquifer with potable water.
 - ❖ Board has assured that permit will be ready for scheduled aquifer testing in June. ✓
 - ❖ **June 20, 2013:** RWQCB issued City injection testing permit. ✓
- **June 19, 2013:** staff again met with Dr. Eric Wu of the RWQCB (Groundwater and Permitting Unit) ✓
- Discussed: ✓
 - ❖ ATS Permit.
 - ❖ Status of the city's regulatory obligations (CDP, CEQA, EIR).
 - ❖ WDR Permit limits and requirements.
 - ❖ Water balance and expanded recycle water use.

Regional Water Quality Control Board



- ❖ Injection of Recycled Water Program Description.
- ❖ Malibu Valley Groundwater Basin
- ❖ Malibu Creek Nutrient TMDL.
- ❖ Local Agency Management Plan.

On June 25, 2013 staff sent to the RWQCB the second quarter project progress report.

Regional Water Quality Control Board



- **July 17, 2013:** staff met with Dr. Eric Wu and Dr. Don Tsai of the RWQCB (Groundwater and Permitting Unit)
- Discussed:
 - ❖ Status of the city's regulatory obligations (CDP, CEQA, EIR).
 - ❖ WDR Permit limits and requirements.
 - ❖ Water balance and expanded recycle water use.
 - ❖ Recycled water reuse
 - ❖ California Department of Public Health Requirements
 - Reverse Osmosis
 - ❖ TMDLs

Community Facilities District (CFD)



- Bond sale closed in February 2013 ✓
- City received funds in February 2013 ✓
- No other updates

Assessment District (AD)



- RFP is currently out to obtain an Assessment Engineering Consultant
- RFP is due August 1, 2013
- Should have Assessment Engineer onboard in August 2013



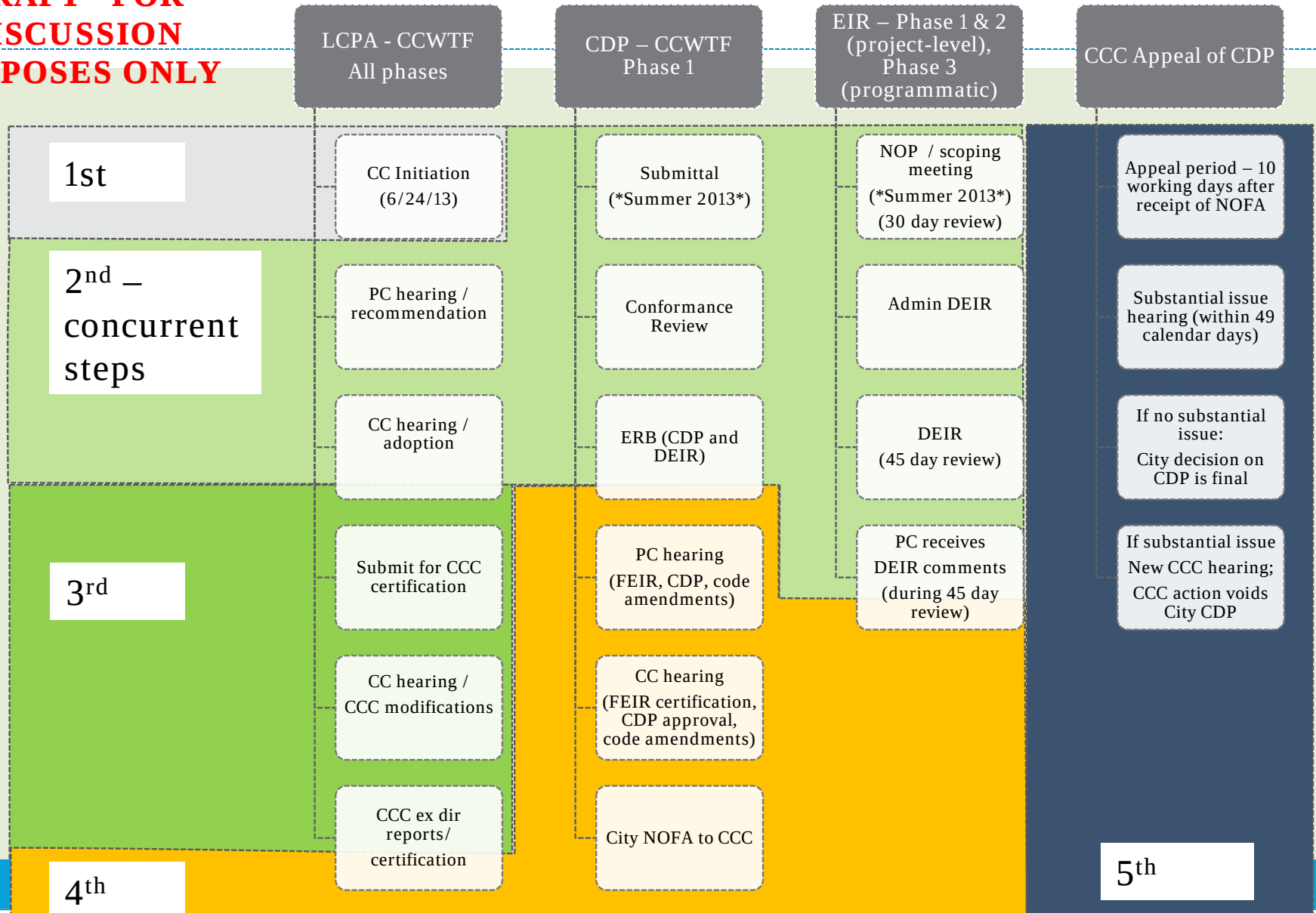
Wastewater Facility Design



- Groundwater Injection Study
 - ❖ Phase 1 – cursory modeling and scoping ✓
 - ❖ Phase 2 – preliminary feasibility assessment ✓
 - ❖ Phase 3 – monitoring & injection well construction, testing, analysis, modeling, & injection well pre-design
- Environmental Impact Report (EIR)
- Final Design/Construction Document

Wastewater Facility Design-Planning Entitlements

**DRAFT - FOR
DISCUSSION
PURPOSES ONLY**



Project Schedule



Phase 3 Field Program

■ Pre-field Work

(March – May 2013)

- ❖ Solicit and execute consultant and contractor agreements ✓
- ❖ Select monitoring well locations and secure access ✓
- ❖ Obtain drilling permits ✓
- ❖ Obtain RWQCB testing permit ✓

■ Monitoring well construction, development and testing

(April – August 2013)

- ❖ Install wells (April 22 to May 20) ✓
- ❖ Develop wells (May) ✓
- ❖ Test wells (Began July 1 RWQCB permit obtained) Ongoing
- ❖ Analyze collected data
- ❖ Prepare well reports

Project Schedule



Monitoring Wells

- Super Care Drugs - 2 wells installed ✓
- Civic Center Way - 1 well installed ✓
- Animal Hospital - 1 well installed ✓
- Malibu Road - 2 wells installed ✓
- Malibu Colony - 2 wells installed ✓
- State Park land - 1 well installed ✓

Project Schedule



Monitoring Wells

- Super Care Drugs (23661 PCH) - 2 wells installed



Project Schedule



Monitoring Wells

- Civic Center Way - 1 well installed



Project Schedule



Monitoring Wells

- Animal Hospital (23431 PCH) - 1 well installed



Project Schedule



Monitoring Wells

- Malibu Road - 2 wells being installed



Project Schedule



Phase 3 Field Program

■ Well Injection Testing

(June – August 2013)

❖ MW 01 (permit obtained)

July 1 began

❖ MW 02 (permit obtained)

August 1 commence

❖ MW 03 (permit obtained)

September 1 commence

❖ Initial results are positive

■ Modeling Work

JULY (September - December 2013)

❖ Updating model

❖ Recalibration

❖ Run scenarios

❖ Perform sensitivity analysis

❖ Prepare model report

■ Begin injection well design

(December 2013)

Phase III Field Program (Malibu Colony)

1. Drilling and Well Construction

❖ Location of new wells



Phase III Field Program (Malibu Colony)



Location of new wells



Project Schedule



Environmental Impact Report (EIR)

- ❖ **Prepare and circulate NOP** (March – August 2013)
 - Initiated biological, geological and cultural survey of treatment plant site
 - Revised project description for use in EIR and Coastal development permit
 - Discussed coordination between EIR and Coastal Development permit
 - Analyze wastewater flow projections
- ❖ **Prepare and circulate Draft EIR** (March 2013– January 2014)
- ❖ **Prepare Final EIR** (January – April 2014)

Project Schedule



Final design and construction documents (April – June 2014)

- ❖ Completed on-shore and near-shore geophysics survey to estimate location of freshwater/seawater interface. Interface was found to be offshore, confirming that the lower aquifer flows to the ocean and is not blocked by a geologic feature. ✓
- ❖ Technical review with independent treatment process experts to confirm treatment process, configuration, sizing, and planned operations. ✓ **(Ongoing Work)**
- ❖ Perform a wetlands delineation report for Winter Canyon Wastewater Treatment Site. **(Ongoing Work)**

Project Schedule



❖ **Treatment Plant Design (Ongoing Work)**

- Process configuration
- Site plan utilization
- Analyze existing electrical system in area
- Electrical & Instrumentation design for process equipment
- Trenchless pipeline construction to reduce disruption/costs

❖ **Collection System Design (Ongoing Work)**

- Pump station locations
- Pump station sizing
- Pipe alignments
- Pipe sizing
- Pipe crossing conflicts (Civic Center Way box culvert)
- User Tie-in locations

Injection Well Testing



Shoreline Geophysical Survey

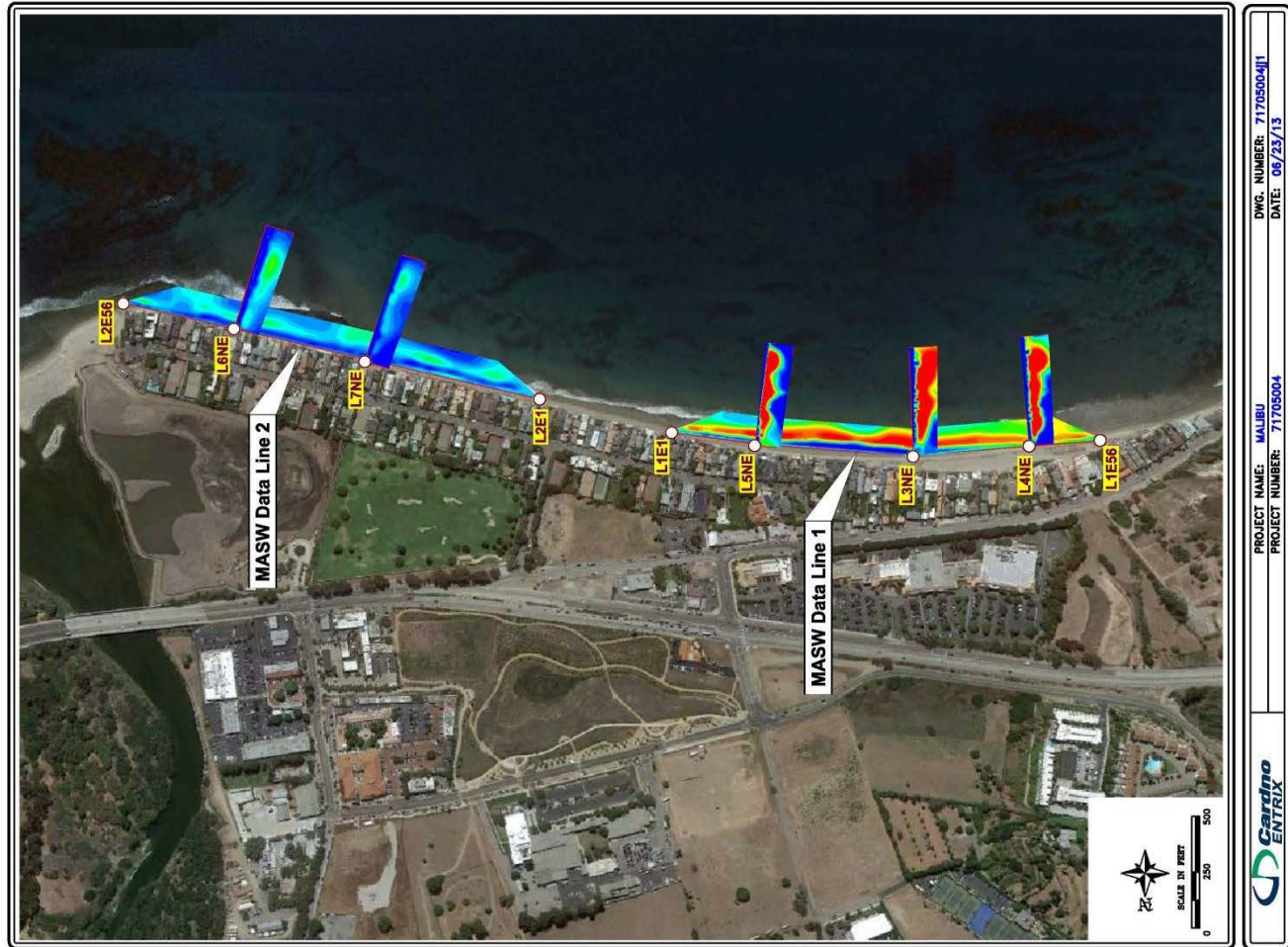
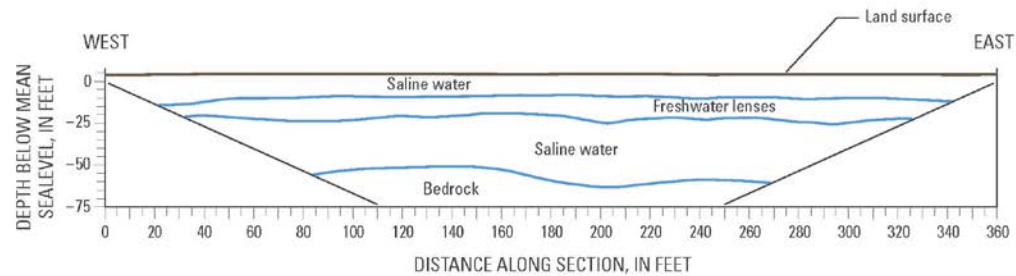
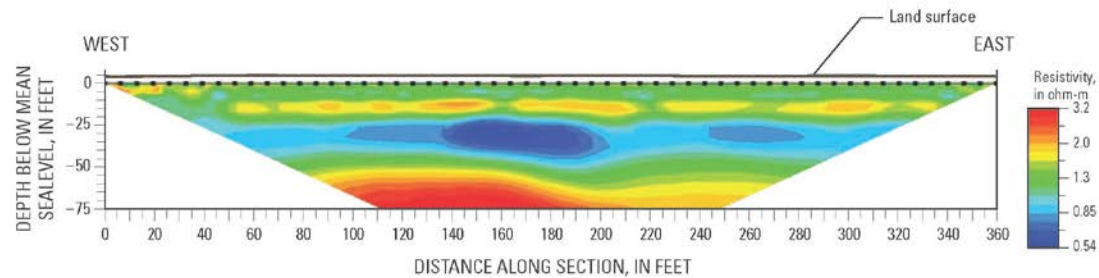
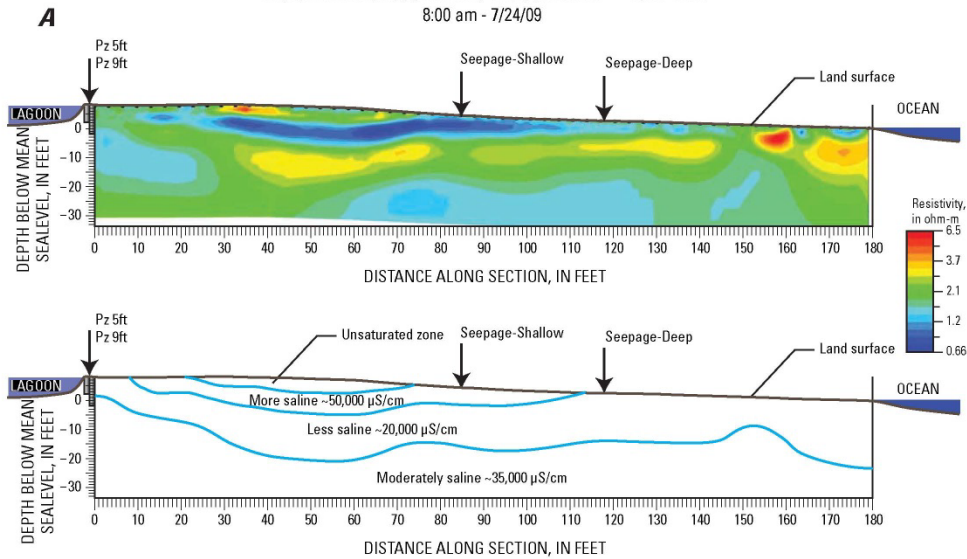


FIGURE 9. CORRELATION OF RESISTIVITY DATA.

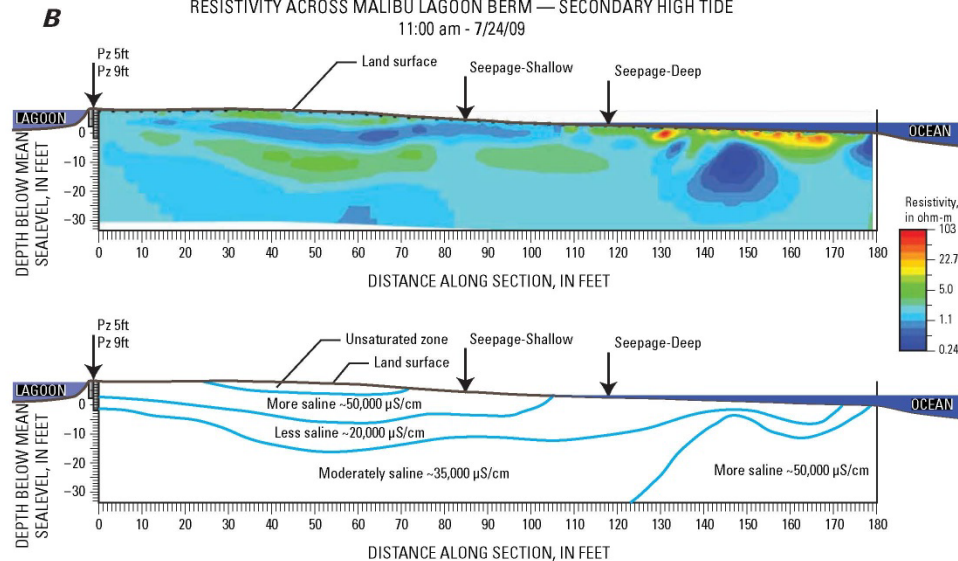
Shoreline Geophysical Survey



RESISTIVITY ACROSS MALIBU LAGOON BERM — LOW TIDE
8:00 am - 7/24/09



RESISTIVITY ACROSS MALIBU LAGOON BERM — SECONDARY HIGH TIDE
11:00 am - 7/24/09





Questions / Comments



Next meeting August 29, 2013



Thank you