

Malibu Civic Center Stakeholders Meeting



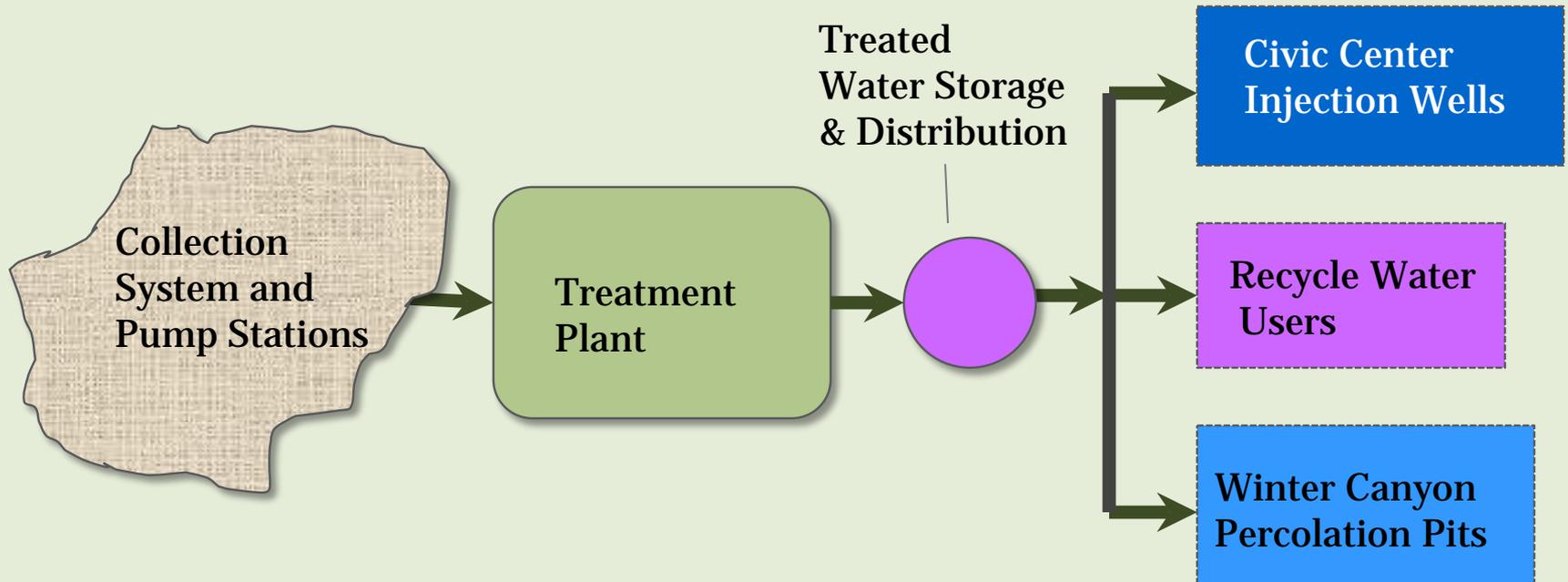
January 31, 2013

Purpose of Meeting



- **Present and discuss:**
 - Project description
 - Status of project
 - Remaining work tasks
 - Approximate schedule
 - Upcoming issues

Project Description



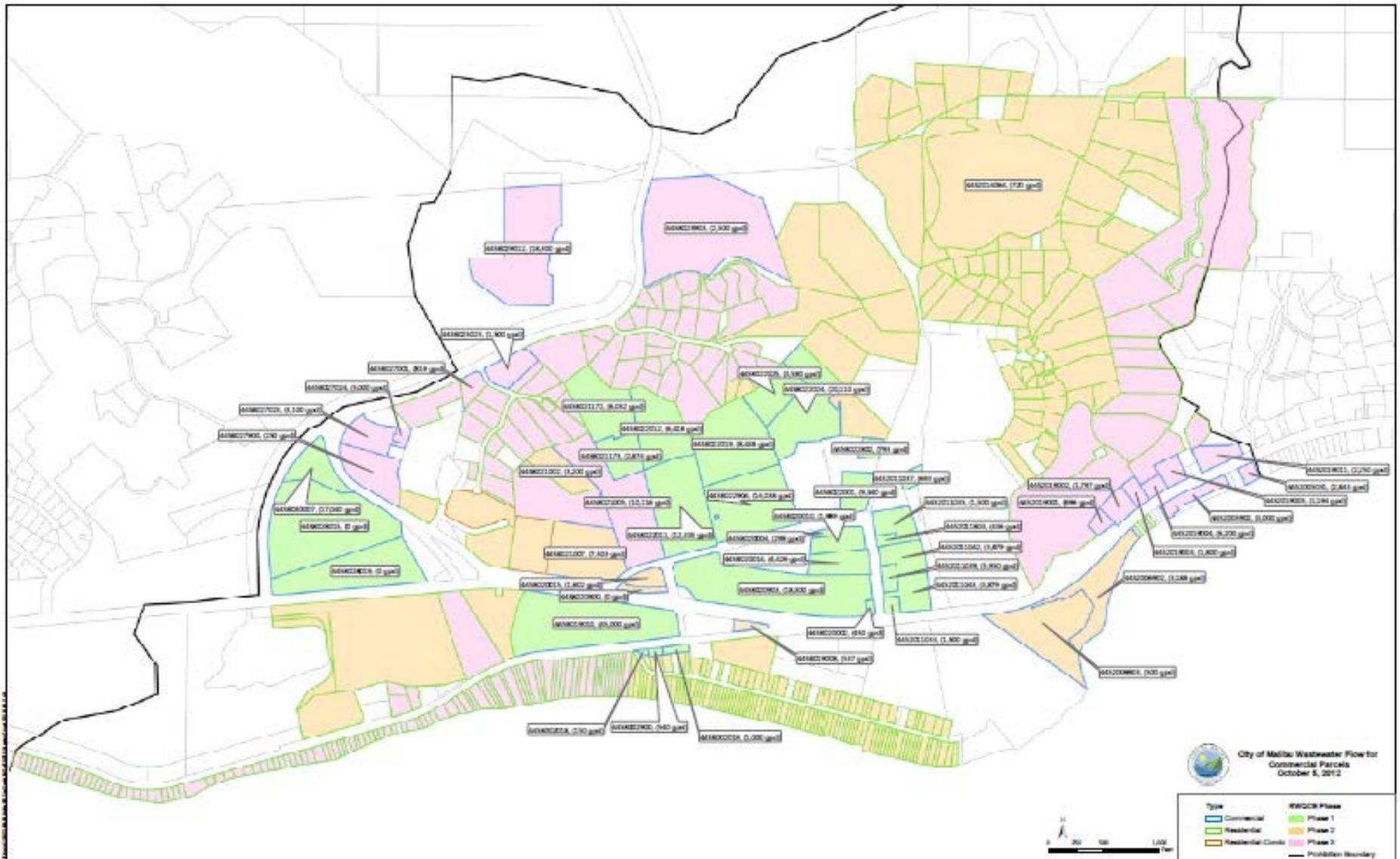
- Final Phase of Groundwater Injection Study
- Environmental Impact Report (EIR)
- Final Design (Construction Documents)

Status of Project



- Estimated wastewater flows
- Estimated reuse demands
- Ground survey (topographic, utilities location, etc)
- Sewage collection system alignment, sizing
- Treatment plant site layout
- Groundwater model
 - Injection at Civic Center area
 - Percolation in Winter Canyon area
 - Preliminary estimates of injection/percolation capacities

Parcel-by-Parcel Flows Have Been Estimated



Reuse Demands Have Been Quantified

- Demands by parcel
- Phasing of demands
- Allows layout of recycled water distribution system



City of Malibu

Recycled Water Use and Storage Study



December 2011

RMC
Water and Environment

Next Phase of Injection Study will Include Deep Monitoring Wells



© 2013 Google

Google earth

ite: 8/26/2012

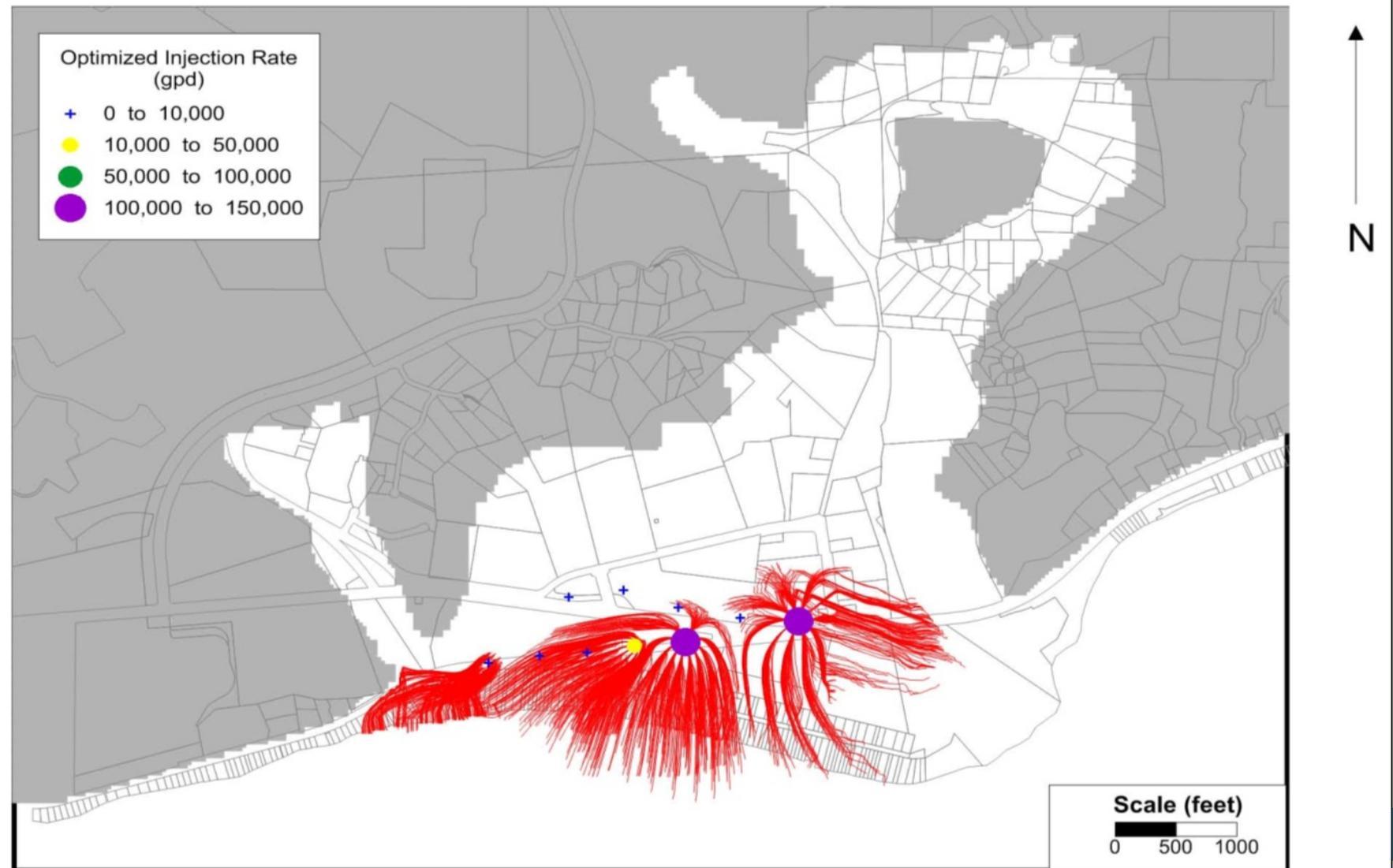
34°02'22.20" N 118°41'31.82" W elev 84 ft

Eye alt 10305 ft

... Additional Modeling of Groundwater Mounding...



... and Additional Modeling of Groundwater Direction of Flow



Site Layout for Treatment Plant will be finalized



Technical Advisory Committee Meetings will be Important



- Provides expert technical input/review
- Identifies/addresses key concerns
 - Regulators
 - Heal the Bay
 - Wastewater Engineers/Experts
 - Other stakeholders
- Provides findings and recommendations
 - Project content
 - EIR

Environmental Impact Report



- **Assessment of project impacts to build-out conditions**
 - Consistent with City's General Plan
- **Formal project description**
- **Will use findings of final phase of groundwater injection testing/modeling**
 - May impact EIR schedule
- **Draft EIR will include public display and comment**
- **Final EIR will include response to comments**

Tentative Schedule – To Be Confirmed!



Requirement	Original MOU Date	Approx Revised Date
Schedule and list outreach meetings/materials	30 Sept 2011	Completed
Submit recycle/reuse study	31 Dec 2011	Completed
Conceptual groundwater injection plan	30 June 2012	Completed
Certified EIR	31 March 2013	31 December 2013
Complete design of wastewater treatment facilities	30 June 2013	29 March 2014
Start up Phase 1 collection and treatment	5 November 2015	2016
Start up Phase 2 collection and treatment	5 November 2019	2020

Upcoming Issues



- **Schedule**
- **California Dept of Public Health**
 - Injection of effluent to required water quality standards
- **RWQCB treatment requirements**
- **Final phase of injection testing**
- **EIR – preparation and public comments**



Thank you

CFD Boundary Map & Phase One Boundary

