



Protecting Public Health & Improving Water Quality

*City Plan: A Science-Based &
Community-Supported Wastewater
Treatment Solution
for Malibu's Civic Center*



Working with the State & Regional Boards for a Solution

Let's Solve this Together

- City *strongly supports* State & Regional Boards' clean water goals
- City *will support a prohibition* on an implementable plan
- Regional Board had good intentions, but its resolution leaves Malibu with an *unworkable situation*
- We respectfully request the State Board *remand the unfeasible septic ban resolution* to the Regional Board & provide guidance for it to quickly revise its geographical boundaries to match the City's plan
- Revised plan can be *returned quickly to State Board* for approval
- During remand period City will continue to *move forward* with its wastewater treatment facility engineering & design
- Our goal is to *find a solution* with you today



Alternative Resolution

- Or if a remand is not acceptable, then revise the resolution to read:
- 3. Directs the Los Angeles Water Board to reconsider the Phase one and Phase Two Boundaries no later than March 31, 2011. The Los Angeles Water Board is directed to reconsider the prohibition boundaries for the commercial and residential areas based upon final independent peer-reviewed scientific data are presented to the Los Angeles Water Board and submitted by the City for consideration.***
- * Allows the completion and peer review for Civic Center groundwater study, USGS Study, SCCWRP Epidemiology Study, NOAA Staph Bacteria Study

Moving Aggressively To Improve Ocean Water Quality

- Invested over **\$50 million**, toward improving ocean water quality
- **Constructed stormwater Treatment Facilities @ Civic Center, Paradise Cove, Marie Canyon:** Capture and treat over 3 million gallons per day of stormwater & urban runoff
- **Legacy Park:** Transform 15 acres into central park & environmental cleaning machine. Capture up to 2.6 million gallons per day of stormwater & urban runoff and will meet the Bacteria TMDL 100% of the time.
- **Centralized wastewater treatment facility** engineering & environmental work underway. First phase could be completed by 2015



Malibu is a Responsible Environmental Steward

- Enacted one of the *first ever comprehensive plastic bag bans* in the State
- *Banned smoking* on beaches
- Obtaining *LEED certification* for City library and City Hall renovation projects
- Adopted landscape *water conservation* ordinance & implemented water conservation programs
- Adopted aggressive wastewater permitting and inspection program that is AB 885 compliant





Regional Board's Resolution

Technical Issues Threaten Progress

- Regional Board's prohibition zone is *technically unfeasible and will lead to failure*
 - Infiltration area is *not available for dispersing large quantities of treated wastewater* into a small, concentrated aquifer (requires dispersal of 600,000 gpd of effluent and only 355,000 is available)
 - The only solution for the Regional Board Plan would require the City to *install an ocean outfall*
 - Serious issues with implementation including easement/land acquisition and EIR completion



Flow and Reuse/Dispersal

| Wastewater Flows (Gallons per Day) | City Plan | RWQCB Plan |
|--|-----------------------------|------------------------------|
| Phase 1 & 2 (Ultimate build out) | 260,700 | 599,850 |
| Reuse and Dispersal Capacities | | |
| Reuse around Civic Center | 145,200 | 145,200 |
| Reuse to Pepperdine | 100,000 | 100,000 |
| Est. Winter Canyon groundwater dispersal potential | 110,000 | 110,000 |
| Total Reuse and Dispersal Capacity | 355,200 | 355,200 |
| Water Balance | 35% Excess Capacity* | 244,650 gpd Shortfall |
| * It is likely the RWQCB will require up to 100% additional capacity for future dispersal area | | |

Political Issues Threaten Progress

- *Assessment District likely to fail to win 2/3 vote* in the area covered by the Regional Board's resolution that is not in the City's plan
- *95% residential homeowners surveyed oppose assessment district* (among those polled in areas within Regional Board's prohibition zone and not part of the City's plan)
- An ocean outfall would face *opposition from environmental groups & others*

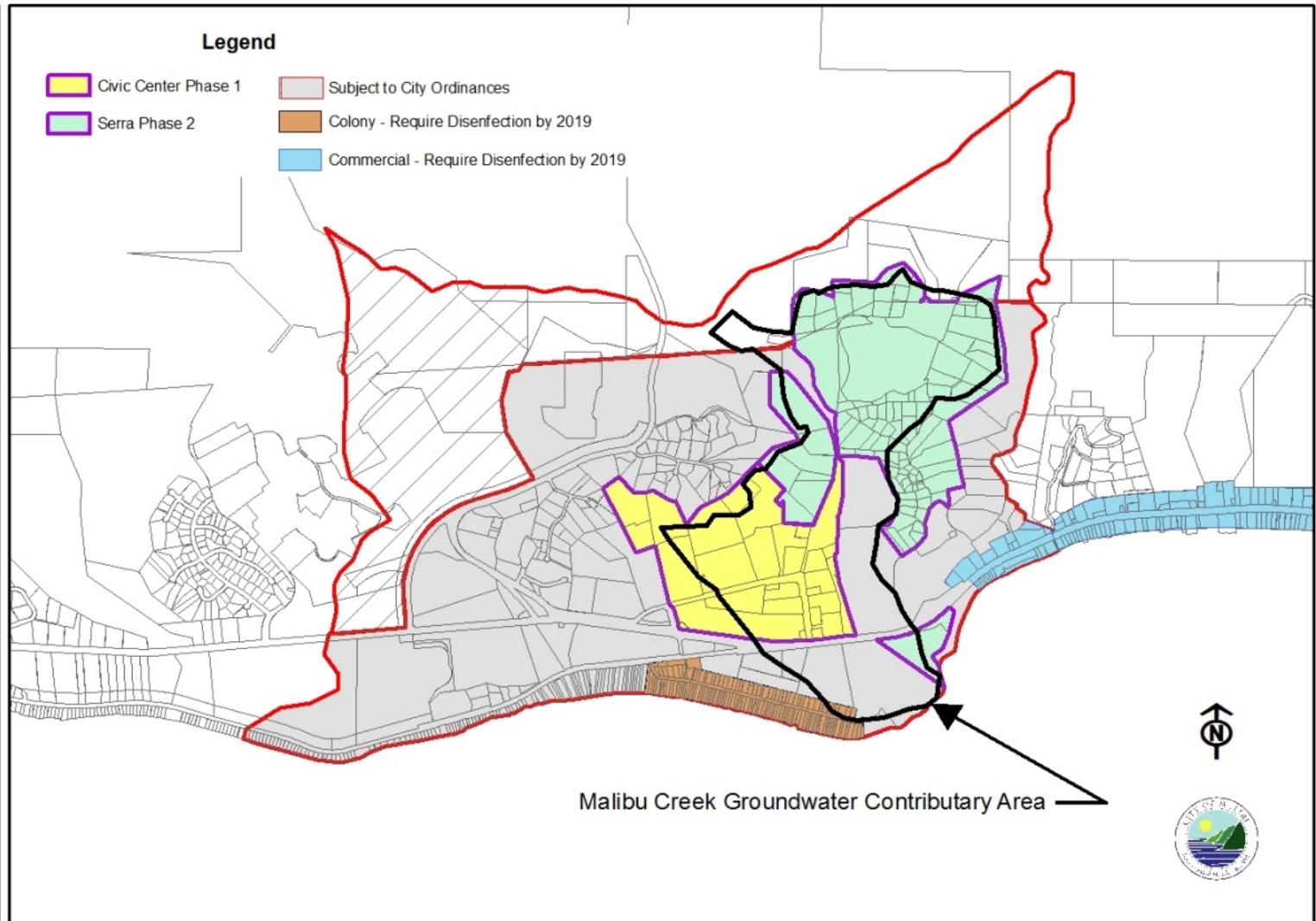




City Plan

A Science-Based and
Community-Supported
Wastewater Treatment
Solution
for Malibu's Civic Center

City of Malibu Civic Center Wastewater Treatment Plan (Treatment and Ordinance Areas)



Community-Supported Wastewater Treatment Solution

- **Phase 1:** Centralized wastewater treatment facility for highest users in Civic Center and where groundwater flows to Malibu Creek
 - Treat up to 210,000 gallons per day
 - 90% of owners in City's planned Phase 1 have provided their written support for the potential formation of an assessment district
 - Completion: 2015
- **Phase 2:** Centralized wastewater treatment expansion for Serra Retreat, homes closest to Malibu Creek
 - Treat up to 50,000 gallons per day
 - Completion: 2019
- **Disinfection** systems added to Malibu Colony homes & beachfront restaurants: Includes monitoring systems with alarms
 - Completion: 2019



City Plan Wastewater Treatment Facility Underway

- City Council *approved \$2.6 million* in January 2009
- *Already completed* background analysis & preliminary design (2005 – 2009)
- *Final Design & EIR* for the City's planned wastewater treatment facility well underway
- City has *identified site & willing seller* for wastewater treatment facility & infiltration area

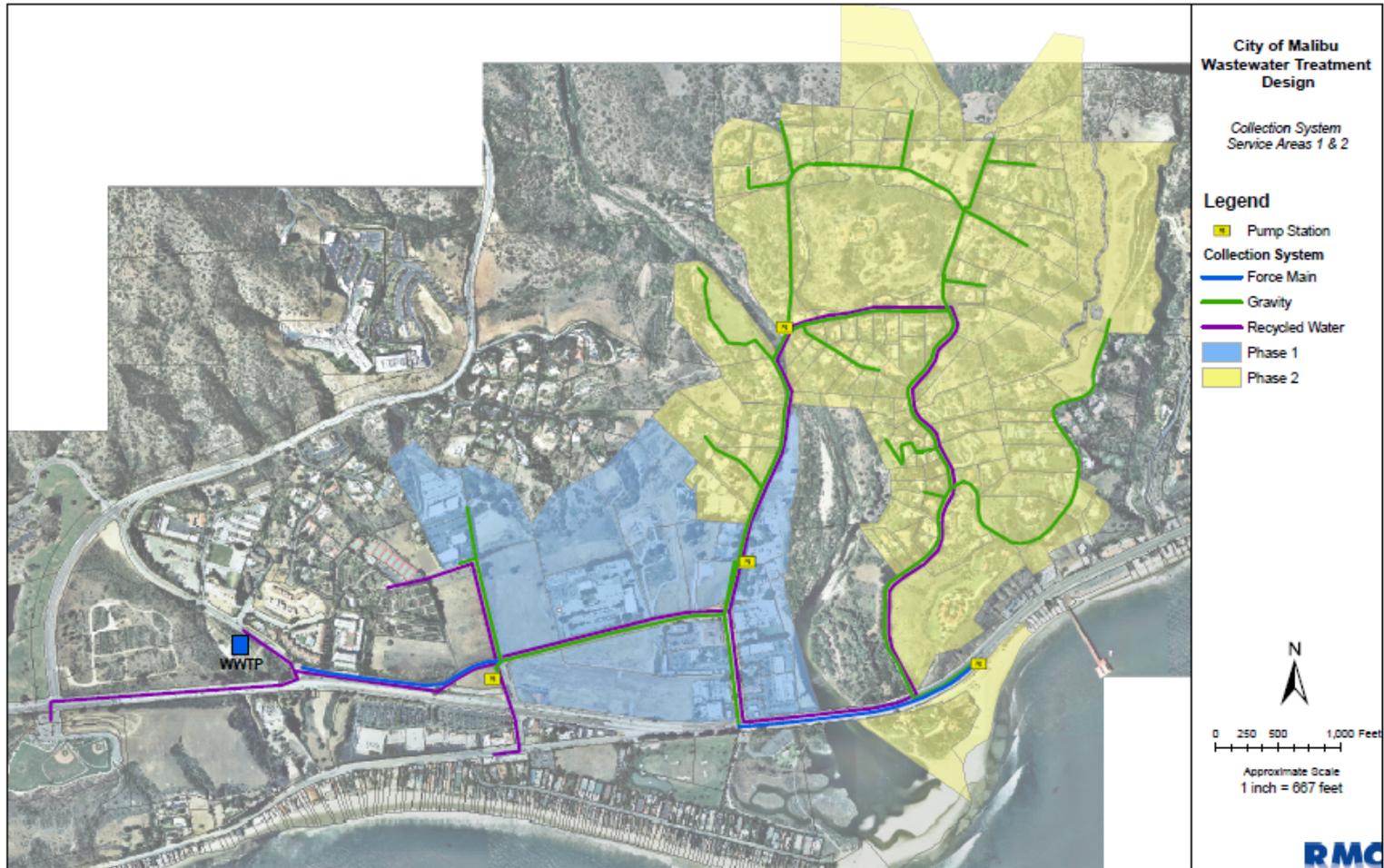


Site Layout for Title 22 Compliant Wastewater Treatment Facility

City of Malibu Membrane Bio-Reactor (MBR) Tertiary WWTP



Collection and Recycled Distribution



City Plan Advantages

- **Targeted:** Highest users closest to Malibu Creek
- **Feasible & Environmental:** No ocean outfall
- **Politically Viable:** Widespread support for City plan
- **Enforceable Milestones:** Ensures continued progress
- **Quicker to Implement:** Avoids legal & political battles
- **Consistent** with AB 885 tough standards
- **Achieves** State & Regional Boards' goal of protecting public health & improving water quality



In Summary:

City Plan



Meeting Our Shared Goals of Improved Water Quality

City
Plan

TECHNICALLY FEASIBLE: Area available to disperse treated wastewater



POLITICALLY ACHIEVABLE: Can win voter approval of an assessment district



TARGETED: Focuses on highest users



QUICKER TO IMPLEMENT: Avoids lengthy legal & political battles



ENVIRONMENTALLY SUPERIOR: Avoids ocean outfall



SUCCESSFUL IMPLEMENTATION: Water quality improved & public health protected



Protecting Public Health & Improve Water Quality

- Malibu *committed to working with the State & Regional* Boards on our shared goal of clean water
- Malibu's scientifically developed & community supported plan is our *best hope for quickly achieving our common goal*
- Respectfully request the State Board *remand the unfeasible septic ban resolution* to the Regional Board & provide guidance for it to quickly revise its geographical boundaries to match the City's plan or revise the resolution
- The revised plan can be *returned quickly to State Board* for approval



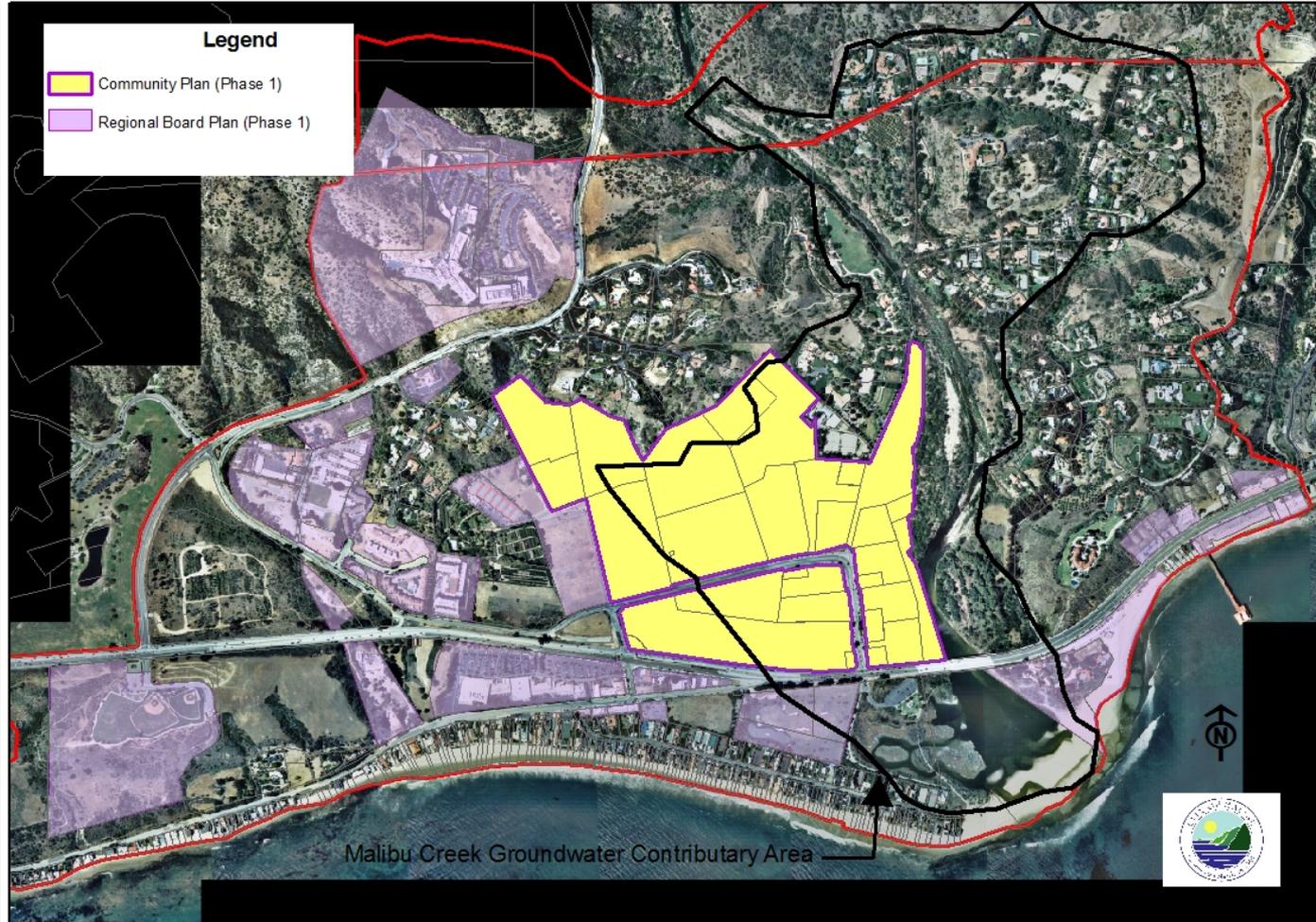
Thank You





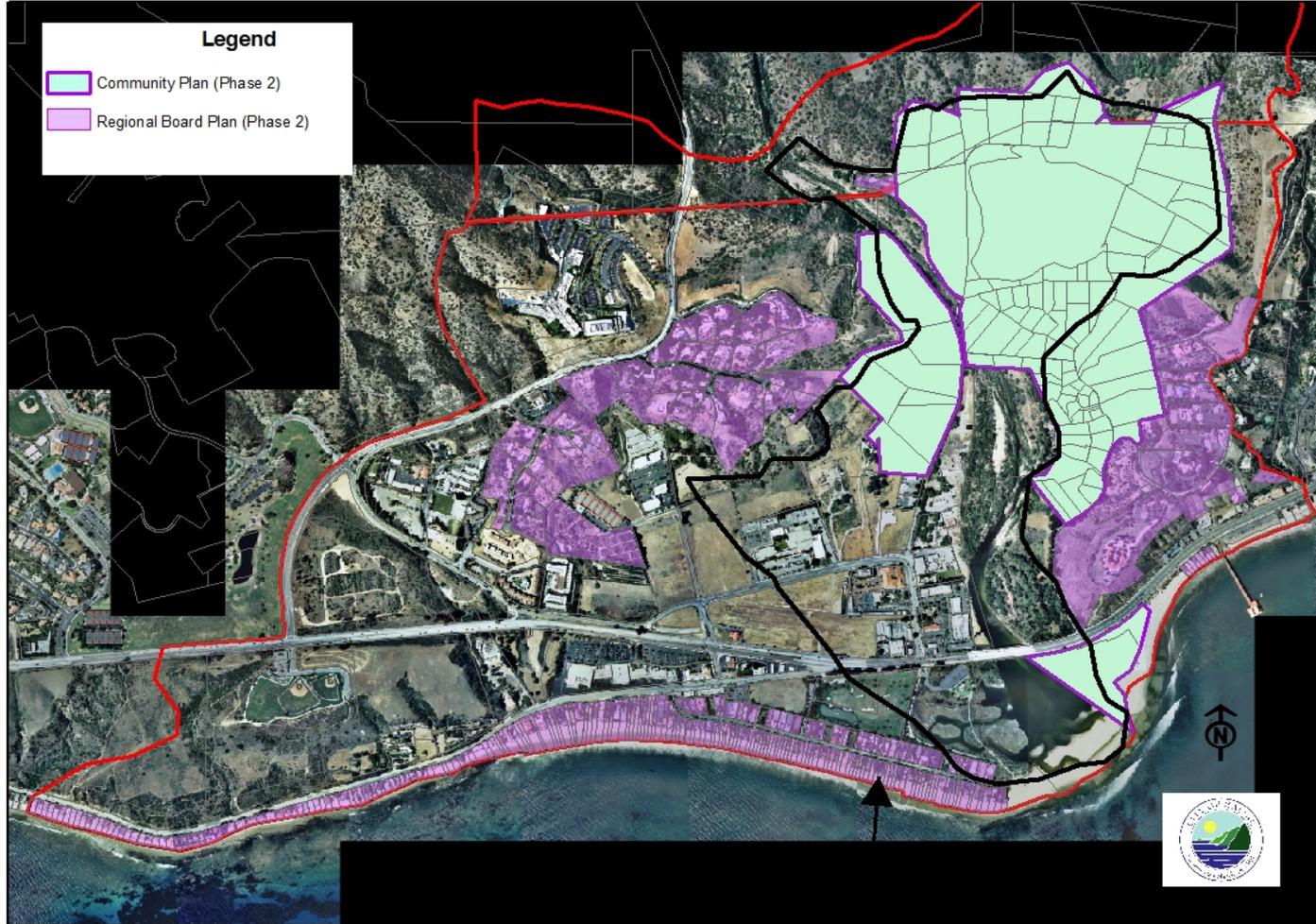
Phase 1: RWQCB vs City Plan

Civic Center Wastewater Treatment Plan Regional Board VS Community Plan (Phase 1)



Phase 2: RWQCB vs City Plan

**Civic Center Wastewater Treatment Plan
Regional Board VS Community Plan (Phase 2)**



Financing Options

Assessment District Must be Created

Must win the votes of *2/3 of the benefitting property owners* to pay for a loan, which could come from any or all of the following:

- State Water Resources Control Board Clean Water State Revolving Fund loan
- Bonds
- Private Financing



Revised Resolution Language

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