



# CITY OF NEWPORT BEACH WATER QUALITY/COASTAL TIDELANDS COMMITTEE AGENDA

Crystal Cove Conference Room - 2nd Floor Bay D

Thursday, January 7, 2016 - 3:00 PM

## **Water Quality/Coastal Tidelands Committee Members:**

**Mayor Pro Tem Diane Dixon, Chair**  
**Council Member Kevin Muldoon, Vice Chair**  
**Dennis Baker, Member**  
**Tom Houston, Member**  
**Carl Cassidy, Member**  
**Louis Denger, Member**  
**George Robertson, Member**  
**Fred Galluccio, Member**  
**Mike Melby, Member**

## **Staff Members:**

**John Kappeler, Water Conservation Coordinator**  
**Raymund Reyes, Public Works Management Specialist**

The Water Quality/Coastal Tidelands Committee meeting is subject to the Ralph M. Brown Act. Among other things, the Brown Act requires that the Water Quality/Coastal Tidelands Committee agenda be posted at least seventy-two (72) hours in advance of each regular meeting and that the public be allowed to comment on agenda items before the Committee and items not on the agenda but are within the subject matter jurisdiction of the Water Quality/Coastal Tidelands Committee. The Chair may limit public comments to a reasonable amount of time, generally three (3) minutes per person.

The City of Newport Beach's goal is to comply with the Americans with Disabilities Act (ADA) in all respects. If, as an attendee or a participant at this meeting, you will need special assistance beyond what is normally provided, we will attempt to accommodate you in every reasonable manner. Please contact John Kappeler, Water Quality Enforcement Manager, at least forty-eight (48) hours prior to the meeting to inform us of your particular needs and to determine if accommodation is feasible at (949) 644-3218 or [jkappeler@newportbeachca.gov](mailto:jkappeler@newportbeachca.gov).

## **NOTICE REGARDING PRESENTATIONS REQUIRING USE OF CITY EQUIPMENT**

Any presentation requiring the use of the City of Newport Beach's equipment must be submitted to the Public Works Department 24 hours prior to the scheduled meeting.

- 1) **CALL MEETING TO ORDER**
- 2) **ROLL CALL AND INTRODUCTIONS**
- 3) **PUBLIC COMMENTS ON AGENDA ITEMS**

*Public comments are invited on agenda items. Speakers must limit comments to three (3) minutes. Before speaking, we invite, but do not require, you to state your name for the record. The [Board/Committee/Commission] has the discretion to extend or shorten the speakers' time limit on agenda items, provided the time limit adjustment is applied equally to all speakers. As a courtesy, please turn cell phones off or set them in the silent mode.*

- 4) **REVIEW AND APPROVAL OF MINUTES**

**Recommendation: Approve minutes as presented.**

[December 3, 2015 Minutes - Draft with attachments](#)

- 5) **OLD BUSINESS**

- (a) **Bay and Ocean Bacteriological Test Results (Monica Mazur)**  
Review and discussion of recent water quality test results within Newport Bay and along the ocean shoreline. Recommendation: Receive and File
- (b) **Sediment TMDL (Bob Stein)**  
Report on a site visit to San Diego Creek with the RWQCB.

6) **CURRENT BUSINESS**

- (a) **Newport Aquatics Center (NAC) Sub-committee Report (Dennis Baker)**  
Sub-committee report on the NAC water conservation project(s).
- (b) **County of Orange Triennial Ocean, Harbor & Bay Water Quality Report (Larry Brennler)**  
Update on the County of Orange's Triennial Ocean, Harbor & Bay Water Quality Report.
- (c) **Drought Response and Water Conservation (George Murdoch)**  
Update on the City's drought response/water conservation program, incentive programs, recycling/reclamation efforts and future State of California regulations.

7) **COMMITTEE ANNOUNCEMENTS OR MATTERS WHICH MEMBERS WOULD LIKE PLACED ON A FUTURE AGENDA FOR DISCUSSION, ACTION OR REPORT (NON-DISCUSSION ITEM)**

- (a) **Fecal Indicator Bacteria (FIB) Natural Source Exclusion**
- (b) **Fats, Oils and Grease (FOG) Program**
- (c) **Bottle Fill Stations**
- (d) **Newport Bay Sediment TMDL Presentation**
- (e) **Newport Bay Trash Removal Program**
- (f) **Orange County Water District (OCWD) Arundo Removal Project**
- (g) **Surfrider Ocean Friendly Restaurant Program**

8) **PUBLIC COMMENTS ON NON-AGENDA ITEMS**

*Public comments are invited on agenda and non-agenda items generally considered to be within the subject matter jurisdiction of the [Board/Committee/Commission]. Speakers must limit comments to three (3) minutes. Before speaking, we invite, but do not require, you to state your name for the record. The [Board/Committee/Commission] has the discretion to extend or shorten the speakers' time limit on agenda or non-agenda items, provided the time limit adjustment is applied equally to all speakers. As a courtesy, please turn cell phones off or set them in the silent mode.*

9) **SET NEXT MEETING DATE**

**Recommendation: Call next meeting for February 4, 2016.**

**Suggested Topics: Committee Projects, Prop 1 Grant Projects and FOG Program**

**10) ADJOURNMENT**

# City of Newport Beach

## Water Quality/Coastal Tidelands Committee Minutes

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**Date:** December 3, 2015

**Time:** 3:00 p.m.

**Location:** Newport Coast Conference Room, 100 Civic Center Drive, Newport Beach, CA 92660

1. The meeting was called to order at 3:00 p.m. by Diane Dixon.

### 2. Welcome/Self Introductions

**Committee Members present:**

Chairwoman/Mayor Pro Tem Diane Dixon  
Tom Houston  
Mike Melby  
Dennis Baker  
Lou Denger  
George Robertson  
Carl Cassidy  
Fred Galluccio

**Committee Members Absent:**

Kevin Muldoon, Vice Chair

**Guests present:**

Duffy Duffield, City Councilman  
Nancy Gardner, resident  
Jim Mosher, resident  
Ted Von Bitner, AMEC Foster Wheeler/OC Public Works  
Jeff Coffman, Clean Green Technology  
Jack Skinner, resident  
Nancy Skinner, resident  
Kelly Dalton, City of Costa Mesa  
Pat Fuscoe, Fuscoe Engineering  
David Pohl, Environmental Science Associates  
Judith Marquez, Innovare Environmental  
Darrel Ferguson, Surfrider Foundation  
Billy Dutton, Help Your Harbor Program/Surfrider Foundation

**Staff present:**

Mark Vukojevic, Deputy Public Works Director  
Bob Stein, Assistant City Engineer  
John Kappeler, Senior Engineer  
Hazel McIntosh, Student Aide  
Raymund Reyes, Management Specialist

The agenda for the Water Quality/Coastal Tidelands Committee was posted at 1:17 p.m. on November 30, 2015, in the binder located in the entrance of the Council Chambers at 100 Civic Center Drive.

### 3. Public Comment on Agenda Items

None.

### 4. Approval of Previous Meeting's Minutes

A motion to approve the October 6, 2015 meeting minutes was made by Tom Houston. The minutes were approved.

### 5. Old Business

**John Kappeler** received and filed the Bay and Bacteriological test results. Rather than display the spreadsheets, John Kappeler provided a summary update and noted one closure at little corona due to root intrusion in a public sewer line, and 4 postings in November.

### 6. Current Business

#### Newport Bay Trash Characterization Study

**Ted Von Bitner**, a consultant with AMEC Foster Wheeler currently working with the County of Orange, presented an overview of the County's Newport Bay Watershed Trash Management Plan. The plan aims to create a comprehensive and integrated watershed-based trash reduction strategy that would be funded through the Coastal Impact Assistance Program. The plan would attempt to unify watershed cities' existing trash programs and also foster the development of processes that meet new regulatory requirements as a result of the recently adopted statewide Trash Policy.

**Darrel Ferguson** and **Judith Marquez** commented on full capture versus full capture equivalency and their effectiveness. **Tom Houston** noted that a true full capture policy would be impossible. **Diane Dixon** inquired about the source points of trash in the watershed. **Jack Skinner** recalled a 20-year old study that looked into locations where food was purchased as sources of trash.

#### Trash and Debris Booms

**Pat Fuscoe** of Fuscoe Engineering provided some background on the Miocean Foundation and a presentation on trash booms. **Mr. Fuscoe** discussed his research on Los Angeles County's implementation of booms in the LA River, the design features and effectiveness of booms, and the need for proper maintenance.

#### Santa Ana Delhi Channel Trash Removal Project

**Bob Stein** discussed new developments on the multi-agency Santa Ana Delhi Channel Trash Removal Project. Originally envisioned as solely a low flow diversion project, further development prompted attention towards capturing trash and debris. As part of the diversion, the project aims to remove a significant amount of pollutants, trash and vegetative debris. **Bob Stein** provided information on location, engineering and design. He

also noted that the multi-agency project (led by the City of Santa Ana) would cost approximately \$9.2 million, funded in part by OCTA grant funding. **Mr. Stein** noted that construction would take two dry seasons to complete the facility and the diversion structure.

### **Newport Bay Trash Cleanup Project**

**Billy Dutton** of the Surfrider Foundation and Help Your Harbor provided an overview of the Newport Bay Trash Cleanup Program. The program began 2 years ago with the assistance of **Duffy Duffield**. The Cleanup currently takes place on the first Saturday of every month and averages between 25 to 95 volunteers. The program's three main objectives are to collect trash, educate the community and gather enough information to bring projects to life.

Mr. Dutton provided information on a City of Baltimore project which used a trash boom in conjunction with a "water wheel" to collect trash directly off the boom. Help your Harbor has partnered with Fuscoe Engineering and the City of Newport Beach in an effort to undertake a similar project at the mouth of the San Diego Creek. **John Kappeler** noted that the City of Newport Beach recently submitted a letter of intent to the State for Proposition 1 funding for this project. If accepted by the State, an application could be submitted in the spring of 2016, and would bring in \$1.4 million in grant funding if successful. During a discussion on the project's timeframe, Dennis Baker noted that the proposed installation location falls in a Marine Protected Area.

Following the discussion, **Councilman Duffy Duffield** provided a recap of his conversations with the County of Orange regarding County efforts to clean the local channels. The County's response to Councilman Duffield indicated that the channels had been checked, were 50 percent loaded and within limits, and were ready for El Nino conditions. **Councilman Duffield** provided aerial drone footage of the channels; **Dennis Baker** and **Duffy Duffield** discussed the issues of sediment and overgrowth in the channels. **Bob Stein** remarked that the Regional Water Quality Control Board was very supportive of the City's attempt to push for the removal of sediment, and a working group was being formed in order to meet sediment TMDL goals.

**Dennis Baker** asked Mr. Stein if there was anything the Committee could do to encourage the County to help move the issue forward with a letter or resolution. Following a short discussion amongst the committee on options, a motion was made by **Dennis Baker** to direct staff to move forward in their efforts if staff determines that a letter or resolution is an appropriate course of action to move the County's sediment removal efforts forward. Bob Houston seconded the motion; the motion was passed unanimously.

**ACTION ITEM:** City staff will determine the best course of action in urging the County to move forward in meeting sediment TMDL goals and if necessary, obtain Council action or approval.

### **Future Committee Meetings and Committee Member Absences**

**John Kappeler** went over schedule change suggestions due to current meeting date conflicts with the City's Finance Committee meetings. Following a short discussion, a

decision was made to move the meeting date from the second Thursday of the month to the first Thursday of the month. The first meeting of 2016 would be scheduled for January 7, 2016.

**Mr. Kappeler** went over information regarding Committee Member absences following a previous request for information at the October meeting.

**7. Committee Announcements or Matters Which Members would like Placed on a Future Agenda for Discussion, Action or Report**

- (a) Fecal Indicator Bacteria (FIB) Natural Source Exclusion
- (b) Fats, Oils and Grease (FOG) Program
- (c) Bottle Fill Stations
- (d) Rain Barrel Incentives
- (e) Newport Bay Sediment TMDL Presentation
- (f) County of Orange's Triennial Ocean, Harbor & Bay Water Quality Report

**Jack Skinner** suggested that recommended revisions to the Newport Bay fecal coliform TMDL from the Watershed Partners be discussed in future meetings.

**Dennis Baker** provided an update on the Newport Aquatic Center and requested that it be a standing item. **Dennis Baker** made a motion to request that staff pursue Proposition 1 grant funding for a Newport Aquatic Center water capture and reuse project. Diane Dixon seconded the motion. The motion passed unanimously.

**ACTION ITEM:** Staff will pursue possible grant funding opportunities for a Newport Aquatics Center water capture and reuse project.

**Diane Dixon** proposed a discussion item on the City's water conservation goals and efforts. **Mike Melby** inquired if the City was undertaking initiatives towards tools, technologies and available resources that would promote the City's water conservation efforts, along with other Committee topics such as trash. **Diane Dixon** recommended that George Murdoch should respond to the inquiry at a later time. **John Kappeler** noted some of the City's responses to residents (such as fines, violations and meetings) who were not complying with current efforts.

**Nancy Gardner** proposed an item focused on beaches and sediment, including possible scheduling of a presentation on the topic.

**Judith Marquez** proposed an innovative initiative program through the Surfrider Foundation and the City, which would address multiple program benefits; she also reiterated her request for a letter of support. **Diane Dixon** asked that it be placed on a later agenda for full review.

**Dennis Baker** requested a presentation on Arundo in the City's watershed.

## **8. Public Comments On Non-Agenda Items**

**Darrel Ferguson** commented on the amount of vegetation at the mouth of Santa Ana River last year following a storm, and noted the City's and County's previous cleanup efforts. Mr. Ferguson noted that there is currently a buildup of sediment at the mouth, along with a lot more trash that needs to be taken care of.

**Phil Bettencourt** noted that he would be holding an informal land trust briefing tonight from 5:30 p.m. to 7:30 p.m. and would be focused on Banning Ranch.

## **9. Set Next Meeting Date**

The next meeting date was set for Thursday, January 7, 2016 at 3:00 pm in the Crystal Cove Conference Room, located at 100 Civic Center Drive, Newport Beach, CA 92660.

## **10. Adjournment**

A motion to adjourn was made. The meeting was adjourned at 5:00 p.m.

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Chairwoman / Diane Dixon

# Newport Bay Watershed Trash Management Plan Overview

Ted Von Bitner, Amec Foster Wheeler

City of Newport Beach  
Water Quality/Coastal Tidelands Meeting  
December 3, 2015  
Agenda Item #3



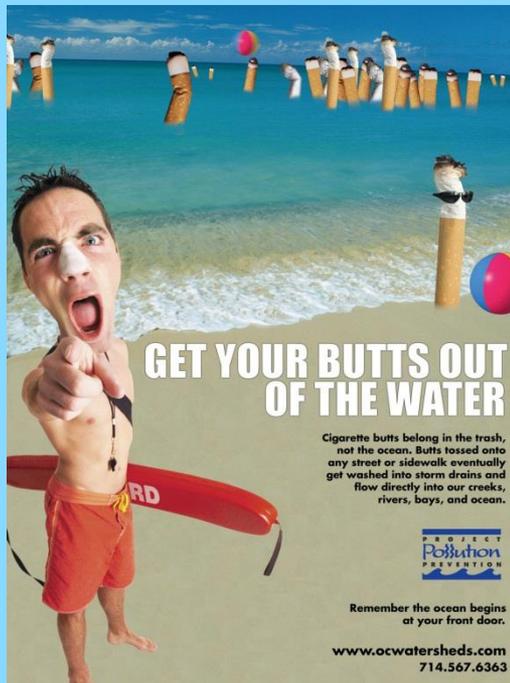
# Newport Bay Watershed Trash Management Plan

- A federal grant funded project
- A watershed-based trash reduction strategy intended to leverage current level of effort
- An opportunity to develop a framework for compliance with new statewide Trash Policy

# Existing Watershed Trash Controls

Each year we spend considerable resources on:

- Litter management and recycling
- Sweeping streets
- Cleaning channels, catch basins and booms
- Educating the public



Litter that finds its way into highway storm drains could end up polluting our lakes, rivers and beaches. We are all responsible for helping reduce the amount of litter that ends up in our water system through storm drains.

**There are many ways you can help prevent this kind of pollution:**

- Never throw any trash or litter on the ground.
- Never throw anything out a car or truck window.
- Always carry a litter bag in your car.
- Securely cover open loads on all trucks.
- Pick up litter in your neighborhood.
- Set an example for others by not littering.

**Thank you for helping keep California clean!**

**DON'T TRASH CALIFORNIA**

A message from the California Department of Transportation Storm Water Program

© 2005 California Department of Transportation

**Litter bugs.**

**FACT:** Cigarette butts are the #1 littered item on California freeways.

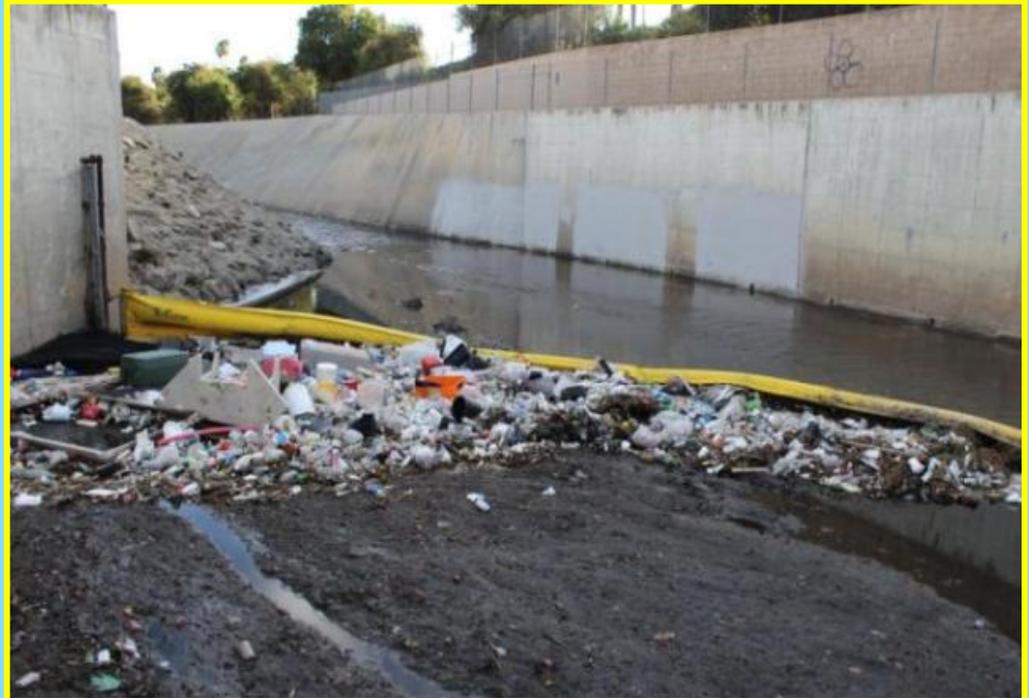
# Are Controls Working?

We remove a lot of trash and debris before it reaches our waterways

**YET**

Trash continues to find its way into our channels, creeks, bays and, ultimately, the Pacific Ocean

# Trash in Our Channels



Santa Ana Delhi Trash Boom

# Trash Mobilized by Rain



Newport Bay after storm

# Trash in Newport Bay



Trash boom in Upper Newport Bay

# Regulatory Requirements

Current and future regulatory requirements;

- (Current) Municipal stormwater permit requirements
- (Future) Statewide Trash Policy

*Amendment to the Water Quality Control Plan for Ocean Waters of California (Ocean Plan) and Inland Surface Waters, Enclosed Bays, and Estuaries of California (ISWEBE Plan)*

# Regulatory Requirements

Trash in waterways is a recognized constituent of concern by the permit.

The municipal stormwater permit requires the Permittees to:

- “.. *reduce the discharge of pollutants, including trash and debris, from the storm water conveyance systems to the maximum extent practicable*”
- “...*continue to implement appropriate control measures to reduce and/or to eliminate the discharge of trash and debris to waters of the US*”
- “... *characterize trash, determine its main source(s) and develop and implement appropriate BMPs to control trash in urban runoff*”

# Regulatory Requirements

- On April 7, 2015 the State Board adopted new Trash Policy
- Policy requires full capture (Track 1) or full capture equivalency (Track 2) approach
- Implementation deadlines based on State Board adoption
  - (Fall 2016) within 18 months Regional Board includes in permit or issues 13267 letter
  - (Winter 2016-17) within 3 months of Regional Board action Permittees elect Track 1 or Track 2
  - (Summer 2018) within 18 months Track 2 Permittees develop implementation plan

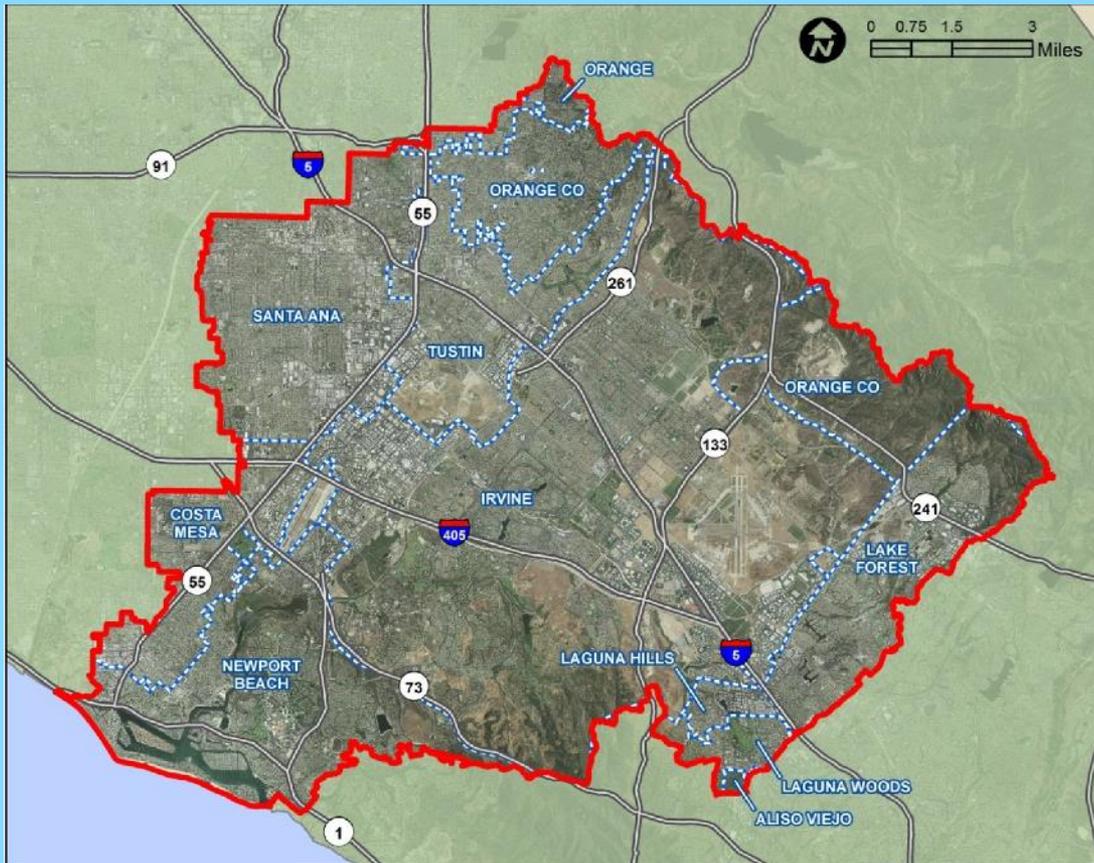
# Federal Grant Funding

County received \$342,000 through the Coastal Impact Assistance Program (CIAP)

- CIAP managed by US Fish & Wildlife Service
- CIAP received funding for a number of years (2007-10) from offshore oil extraction industry
- Federal funding available through December 2016

# Project Goals

- Unify watershed cities' existing trash programs
- Leverage grant project to address regulatory requirements
- Pilot project for potential countywide implementation



# Examples of Project Information Sources

- Published reports
- Active programs
  - Los Angeles, San Diego, Bay Area
- City and County programs
  - Street sweeping
  - Catch basin and storm drain cleaning
  - Channel and trash boom maintenance
  - Community clean up events

# Project Tasks

## Phase 1: (Complete by Fall 2016)

1. Literature review on “State of the Science”
2. Inventory of watershed trash control measures
3. Data quality evaluation of current records
4. Survey of street-level trash generating areas
5. Source analysis and trash hotspot map
6. Prepare draft Plan

# Project Tasks

Phase 2: (Depending on funding availability)

1. Conduct implementation pilot project
2. Establish long term monitoring and effectiveness assessment program

# Recommended Action

- Receive and file.

# Santa Ana Delhi Diversion Update

Water Quality/Tidelands Committee

December 4, 2015



# Trash/Debris Collected at North Star Boom

## 2010: Approximately 400 Tons



# Upstream Trash Removal Devices Inserted into Catch Basins



# Project will remove pollutants, trash and vegetative debris



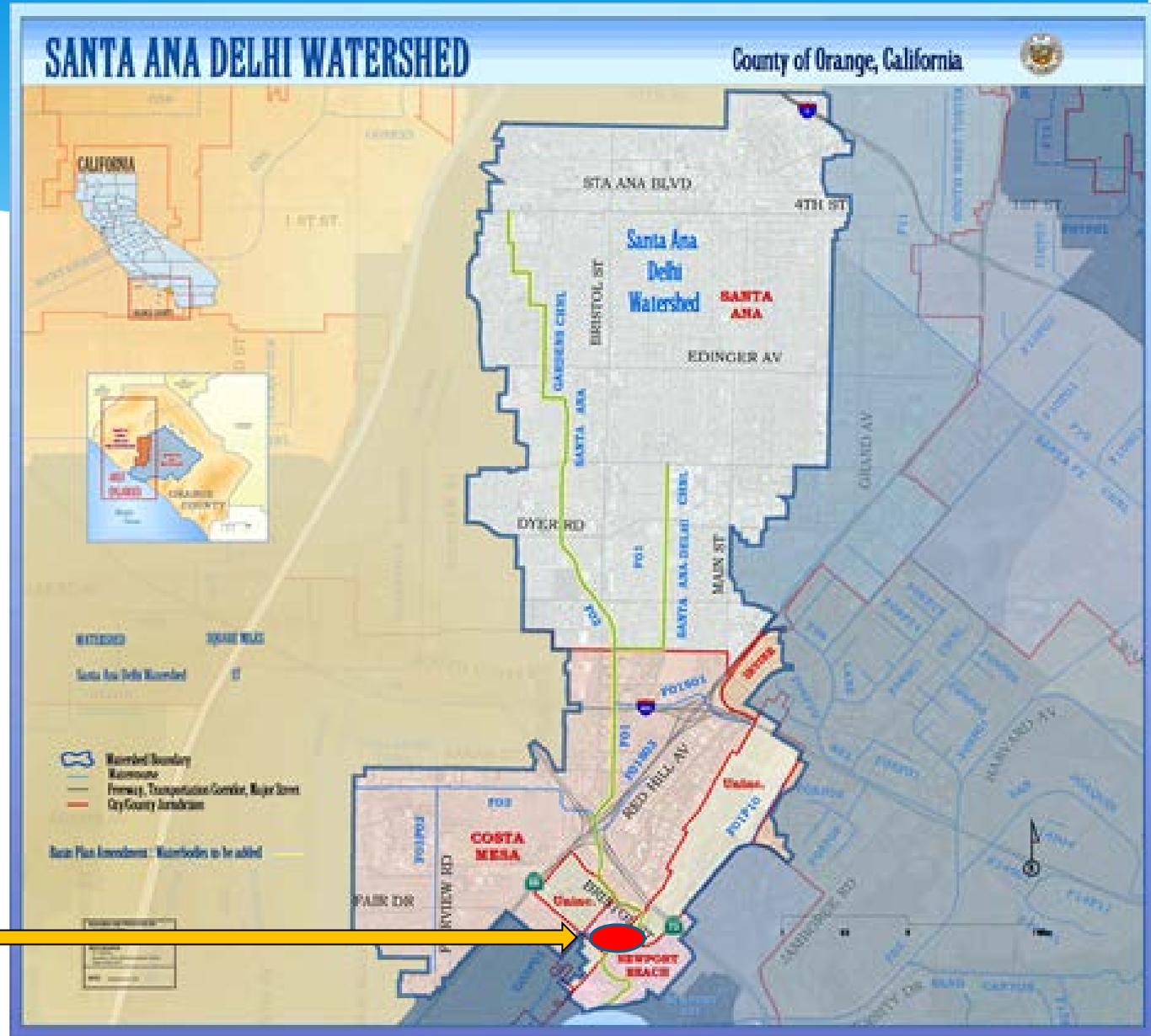
# Diversion Location

Collaborative Project:

- ❖ City of Newport Beach
- ❖ City of Santa Ana
- ❖ County of Orange
- ❖ City of Costa Mesa

Total Cost: \$ 9 Million

Proposed  
Diversion



# Diversion Location



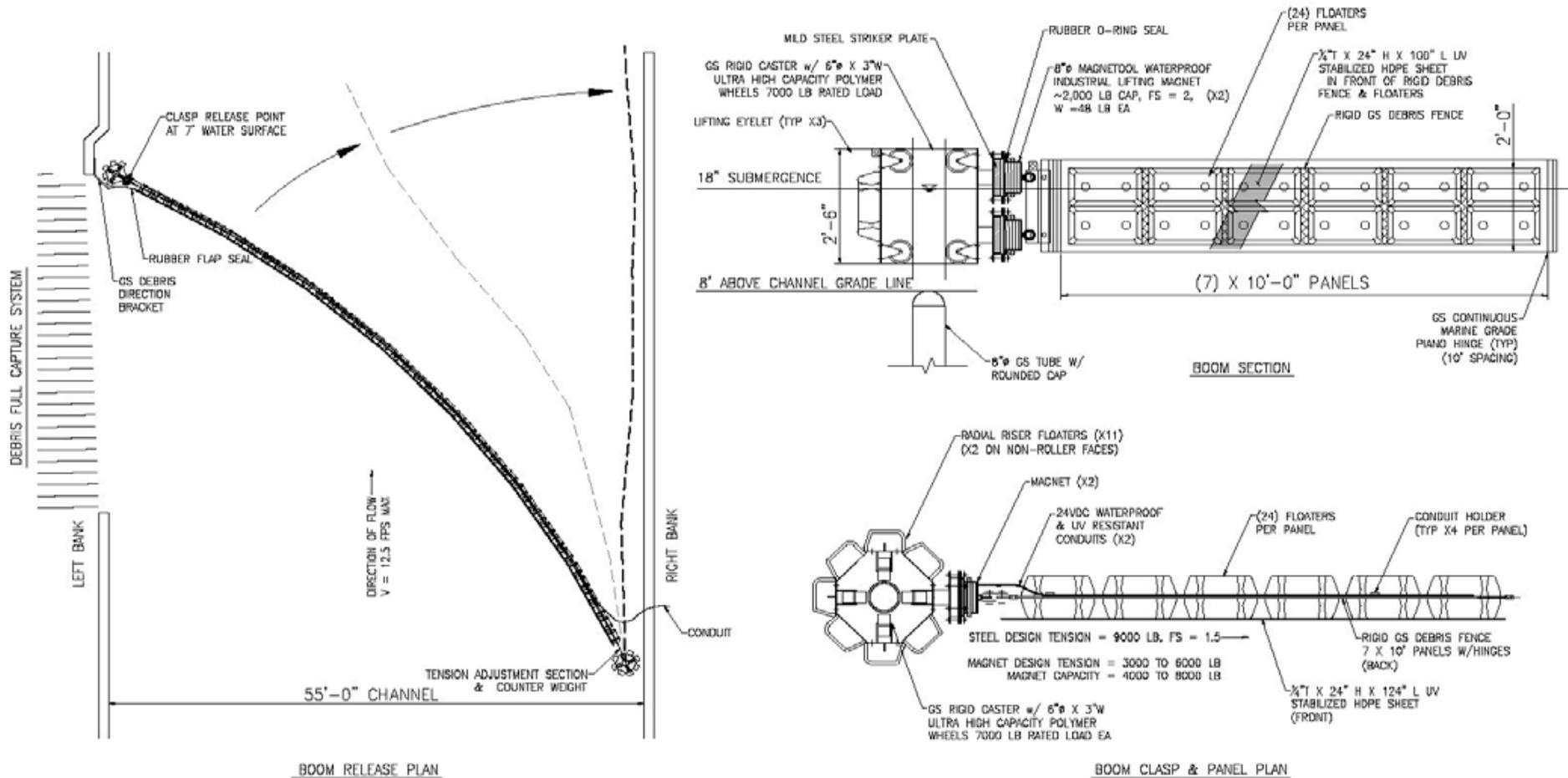
**Figure 1 - Proposed Project Location  
(Newport Beach Golf Course)**



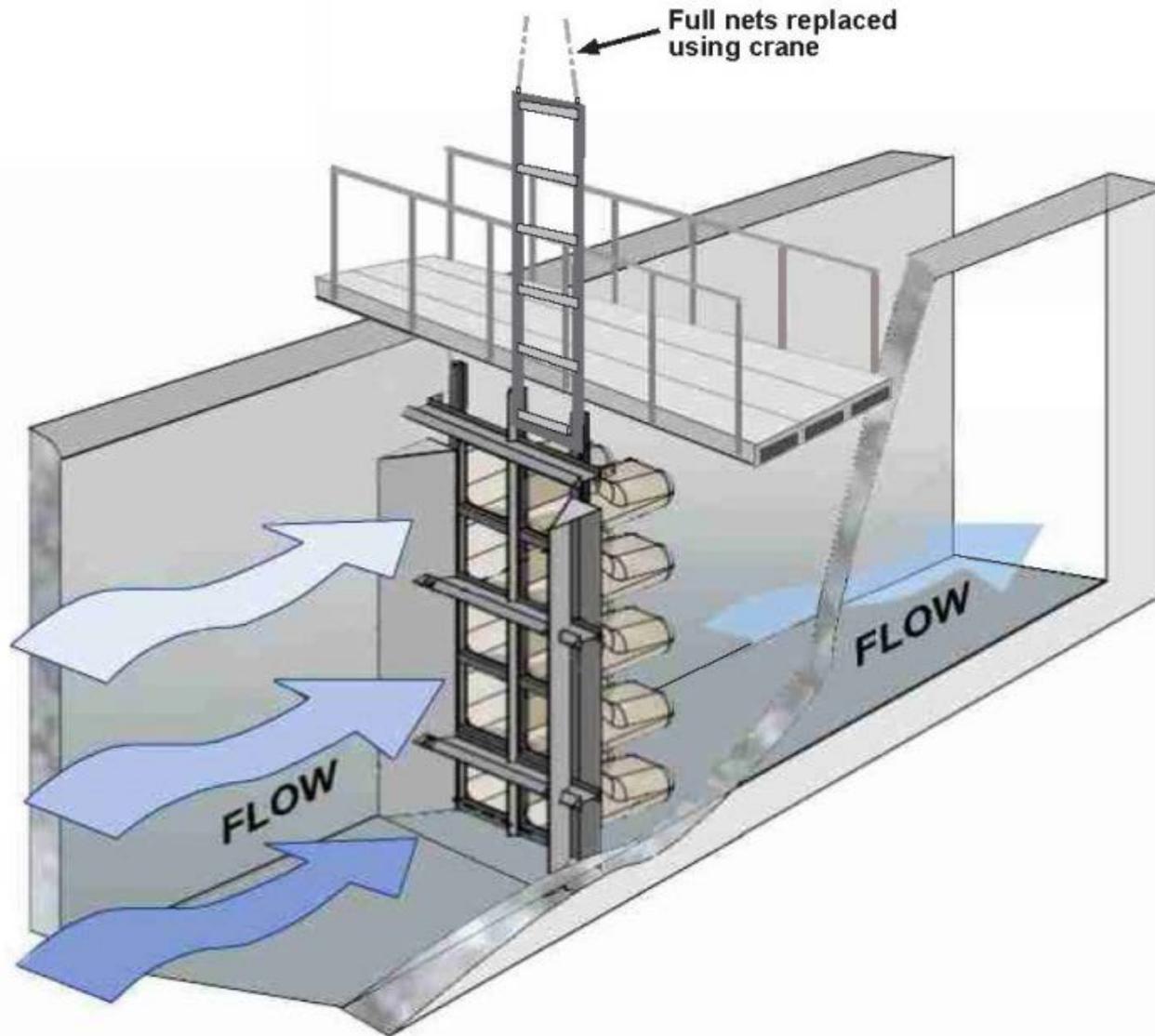
# Coanda Screen to filter-out sediment and debris



# Debris Boom – to divert floatable trash in a small storm



# Storm Flow Trash Nets



# Santa Ana Delhi Diversion Project

## Cost, Funding & Construction Start

Design, Construction, and Maintenance: \$9.2 million

### Grants and Pledges:

OCTA Grant	\$2,600,000
City of Santa Ana	\$1,900,000
County of Orange	\$1,600,000
City of Newport Beach	\$1,500,000
City of Costa Mesa	\$ 600,000
Orange County Water District	\$1,000,000

Award Construction Contract by June 30, 2016  
(Grant Requirement)

