

City of Newport Beach

Water Quality/Coastal Tidelands Committee Meeting Minutes

Date: December 1, 2016

Time: 3:00 p.m.

Location: Crystal Cove Conference Room, 100 Civic Center Drive, Newport Beach, CA 92660

Meeting Minutes prepared by: Raymund Reyes

1. The meeting was called to order at 2:59 p.m. by Chairwoman Diane Dixon.

2. Welcome/Self Introductions

Committee Members present:

Mayor Diane Dixon, Chair
George Robertson
Lou Denger
Dennis Baker

Committee Members Absent:

Mike Melby
Councilman Duffy Duffield, Vice Chair
Tom Houston
Fred Galluccio
Carl Cassidy

Guests present:

Howard Cork, Newport Bay Conservancy
Nancy Gardner, Orange Coast River Park
Billy Dutton, Help Your Harbor
Darrel Ferguson, Surfrider Foundation
Nancy Skinner, SPON
Jack Skinner, SPON
Peter Bryant, Newport Bay Conservancy
Portia Bryant

Staff present:

John Kappeler, Senior Engineer
Bob Stein, Assistant City Engineer
George Murdoch, Municipal Operations Director
Shane Burckle, Water Conservation Coordinator
Hazel McIntosh, Student Aide
Raymund Reyes, Management Specialist

The agenda for the Water Quality/Coastal Tidelands Committee was posted at 2:35 p.m. on November 28, 2016, 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

Due to the lack of a quorum, a motion to approve the November 3, 2016 minutes was not made and moved to the next meeting.

5. Current Business

(a) Private Street Catch Basin Cleaning & Street Sweeping Program

George Murdoch provided an update on the City's catch basin cleaning and street sweeping requirements for private streets and Home Owners Associations (HOAs.) **Mr. Murdoch** provided background information on the City's storm drain system, sources of contamination and efforts to reduce contamination, and the City's procedures for catch basin cleaning. Of the 3,967 catch basins in the City, 421 were on private streets but serviced by the City. Furthermore, 2,371 basins located on private streets or apartment complexes were not serviced by the City. Most of the private systems were found to not be maintained. **George Murdoch** asked the committee's opinions on whether the City should continue to clean private streets, mandate that HOAs clean their basins, and clean additional catch basins.

Dennis Baker suggested the City do all three options, but would like to see a phased-in approach to charging HOAs that are getting free service currently. **Mr. Baker** also mentioned if the City could present HOAs with options and standards for operating independently or contracting through the City. **George Murdoch** replied, noting that the City could do an implementation plan. **Lou Denger** suggested that the City should clean all catch basins, and charge all HOAs for cleaning private basins. **Mr. Denger** inquired if it would be better for the City to clean the basins rather than having the HOAs do it since the City was already inspecting the catch basins. **George Murdoch** responded, noting that there were some policy issues that would need to be worked out. Other members suggested a performance based approach, and a resident asked if the City had any prior agreements with any HOAs for cleaning. **Shane Burckle** thought that a catch basin cleaning project could have a chance for Measure M Project grant funding.

Diane Dixon asked if there was something in the City's Municipal Code that could require that all private communities maintain their catch basins. **George Murdoch** indicated that it could be done, but a mechanism would have to be in place to establish standards and requirements. **Nancy Skinner** asked about private street access; **Mr. Murdoch** indicated that the City has a right to enter and inspect if the basins are connected to the City. At the conclusion of the discussion, **Diane Dixon** asked **George Murdoch** to come back to the committee with some additional options and an implementation plan over a yet to be determined number of years. **Chair Dixon** also recommended further data collection on debris and trash that ends up in the bay via catch basins, as well as some outreach to HOAs in order to get them to be part of the solution.

(b) Newport Bay Water Wheel

John Kappeler gave a presentation on the Newport Bay Water Wheel. The presentation covered methods of trash collection in Newport Bay, the upcoming Santa Ana Delhi

Regional Trash Facility and other collection methods, and 2015 TMDL requirements. Discussion then focused on the water wheel project. **Dennis Baker** inquired about project costs. **Lou Denger** and **Howard Cork** discussed alternate locations. **Diane Dixon** asked if any new water wheel projects had been installed in other locations. **Jack Skinner** asked about the wheel's true effectiveness during storm events. Further discussion continued on alternate methods, with Bob Stein agreeing that an upstream collection facility would be the most ideal. However, the Wheel was a good "Plan B" project. Mr. Stein suggested a dual pathways approach, lobbying stakeholders to draft a plan for a trash removal implementation program (including a regional facility,) as well as pursuing a facility in Upper Newport Bay.

(c) Communications Sub-Committee

As **Mike Melby** was unable to attend the meeting, the item was postponed to a later date. However, some discussion took place regarding an upcoming public service announcement on water quality in Newport Beach.

6. Old Business

(a) Bay and Ocean Bacteriological Test Results

A presentation on the monthly test results was led by **John Kappeler**, who provided updates to local conditions. Mr. Skinner provided information on a new test method which could detect the presence of human fecal bacteria. Diane Dixon asked if it might be possible to have a presentation on the method, and perhaps try a pilot program.

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

Diane Dixon requested a heads up of new regulations regarding urban water runoff. Dennis Baker and Diane Dixon asked George Murdoch on an implementation timeline and when Council would take action. Mr. Murdoch explained that comments were being taken until December 16, 2016 on the draft implementation plan, with possible action in January. George Murdoch indicated that he would like further feedback from the committee on the item, and would be glad provide the committee with additional information.

In regards to recycled water and the Poseidon project, George Murdoch spoke to the Vice President of Poseidon, LLC and asked if he could update the committee on the project. Diane Dixon also asked Mr. Murdoch about what was going on in Carlsbad. Mrs. Skinner asked about an opposing viewpoint for Poseidon; however Diane Dixon noted that the presentation would only be an update to the committee. George Murdoch suggested that he could instead obtain the information from Poseidon, LLC and bring it back to the committee.

8. Public Comments On Non-Agenda Items

Mr. Skinner noted that he would like to see a presentation on human fecal coliform testing methods by Joe Guzman.

9. Set Next Meeting Date

The next meeting date was set for Thursday, January 5, 2017 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 4:49 p.m.

Chairwoman / Diane Dixon



City of Newport Beach Catch Basin Maintenance

Water Quality Coastal Tidelands Committee 12/1/2016

Storm Drain System

- Combination of City staff and contractors maintain:
 - Storm drain pipes
 - Catch basins
 - V-ditches
 - Tide valves
 - Continuous Deflection System (CDS) units
- Storm Drain Master Plan
 - Identification of type, age and condition of system
- Capital Improvement Projects (CIP)
 - Replacement of aging infrastructure
 - Improvements to performance



Sources of Contamination

- Bay and Ocean Water Quality can be affected by:
 - Sewer spills
 - Urban water runoff
 - Storm water runoff
 - Recreational use
- City is responsible for maintaining
 - Sewer system
 - Water system
 - Storm drain system



Efforts to Reduce Contamination

- Maintain a healthy sewer system
 - General Waste Discharge Requirements (GWDR)
 - Sewer System Management Plan (SSMP)
- Water conservation
 - Reducing urban water runoff
- Street sweeping
 - 655 miles of public streets
 - 33 miles of public alleys
- Storm drain operations
 - Storm drain pipe cleaning
 - V-ditch cleaning
 - Catch basin cleaning
 - Catch basin screens
 - Continuous Deflection System (CDS) unit cleaning
 - Emergency response to private spills



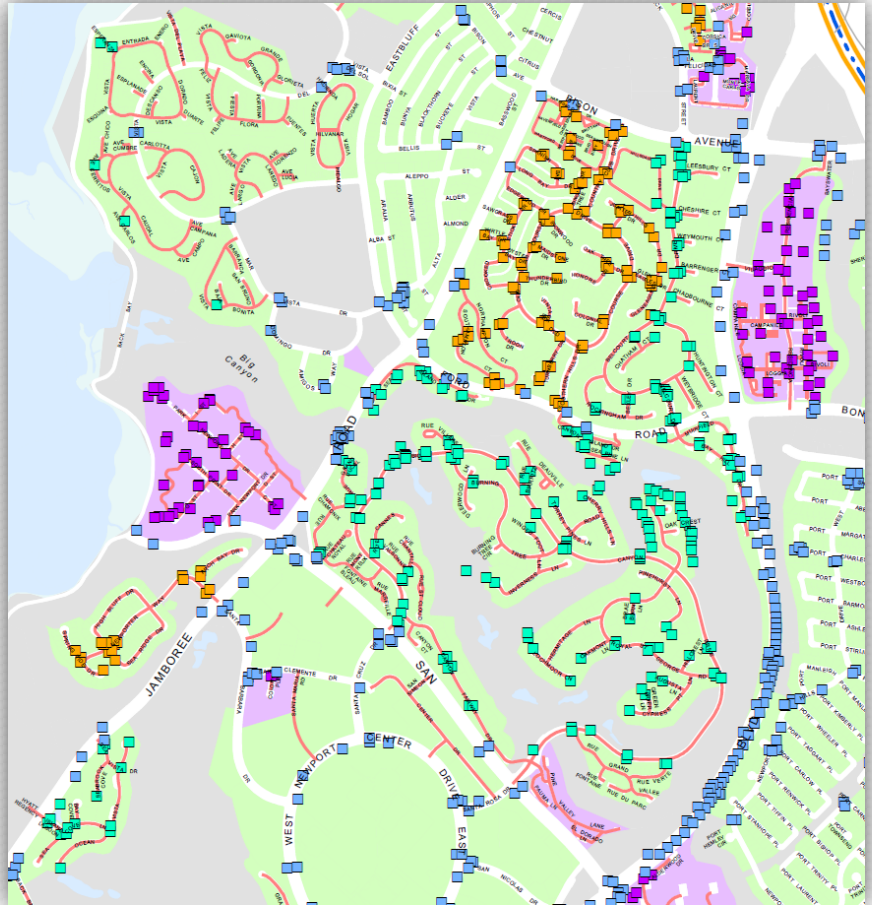
Catch Basin Cleaning

- City contracts with Downstream Services
- City owns one Vactor truck for emergencies
- 3,967 Catch Basins
 - Serviced by City (public streets) – 2,075
 - Serviced by City (private streets) – 421
 - Not serviced by City (private streets – 1,290
 - Not serviced by City (apartments) – 181



Who Does What?

- Staff spent several months mapping/investigating
- Street ownership typically determines catch basin ownership
- Apartments hard to access
- Most private systems not maintained



Full CB Map

Full CDS Map

Options

- Public streets
 - Continue to maintain catch basins
- Private streets
 - Stop City service
 - Long history of City maintaining in some areas
 - Mandate HOAs to maintain under NBMC 14.36
 - Permits and right to inspect
 - Only applicable where private system ties to City system – Change or create code
 - City maintains private catch basins
 - Agreements with HOAs
 - Charge for service
 - Cost (next slide)

Costs

- Current operations cost
 - Approximately \$220,000 annually
 - 2,075 public catch basins \$78,850 (\$38/each)
 - 421 private catch basins \$15,998 (\$38/each)
 - 20,579 feet of V ditches \$10,289.50 (\$0.50/foot)
 - 19 CDS units \$18,050 (\$950/each)
 - Structures/headworks (hourly as needed)
- Optional cost (City cleans additional private catch basins)
 - Approximately \$64,405 annually
 - 1,290 private catch basins x \$85 = \$49,020
 - 181 Apartment catch basins x \$85 = \$15,385

Committee Thoughts

- Should the City continue to clean private catch basins? If so...
 - Should the City charge HOAs for cleaning?
- Should the City mandate HOAs to clean private catch basins? If so...
 - Should we change the NBMC for areas not discharging to City system?
- Should the City clean additional private catch basins? If so...
 - Should the City charge HOAs for cleaning?
 - City will need to enter into agreements with HOAs for access/rights



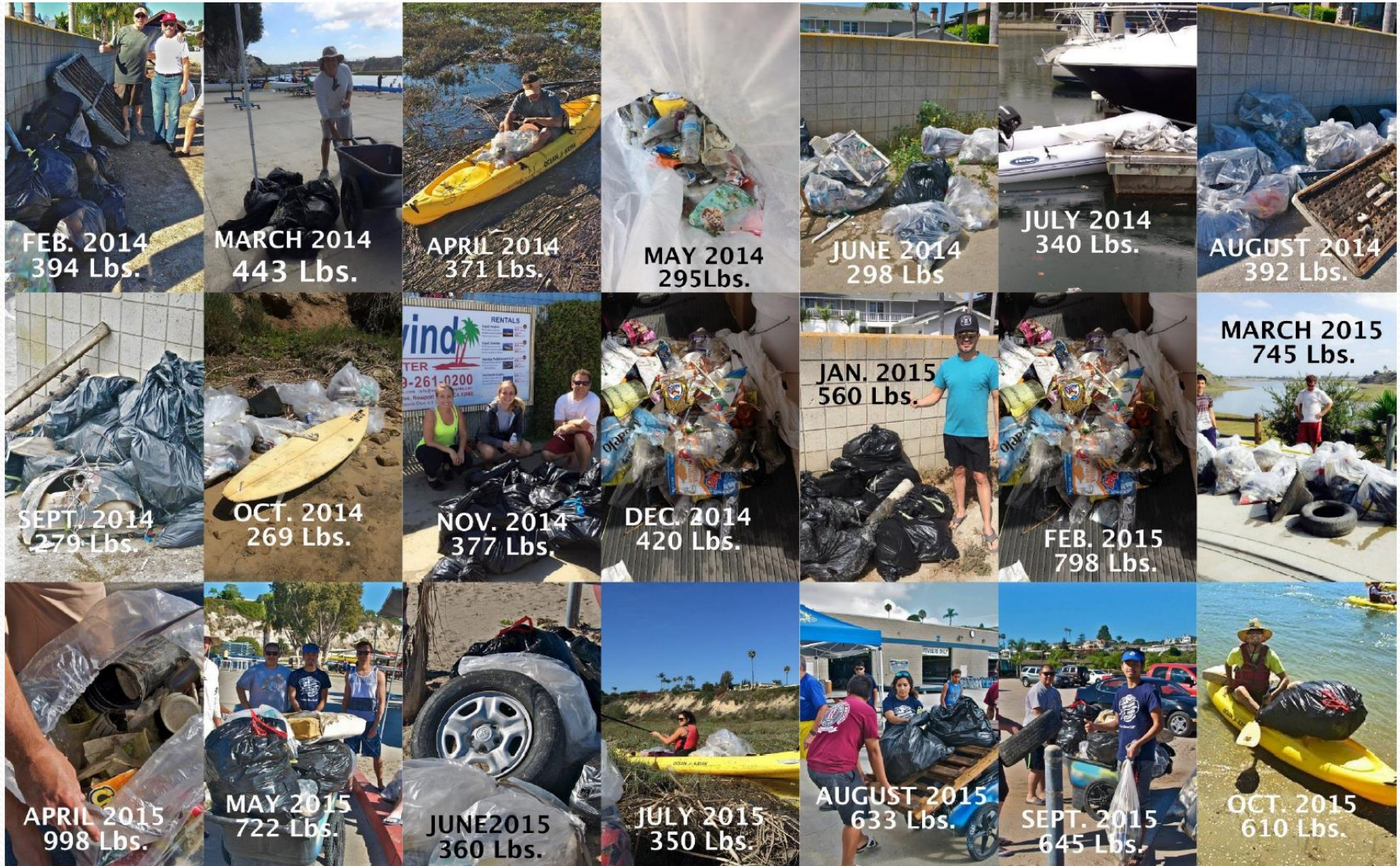
Questions?

Newport Bay

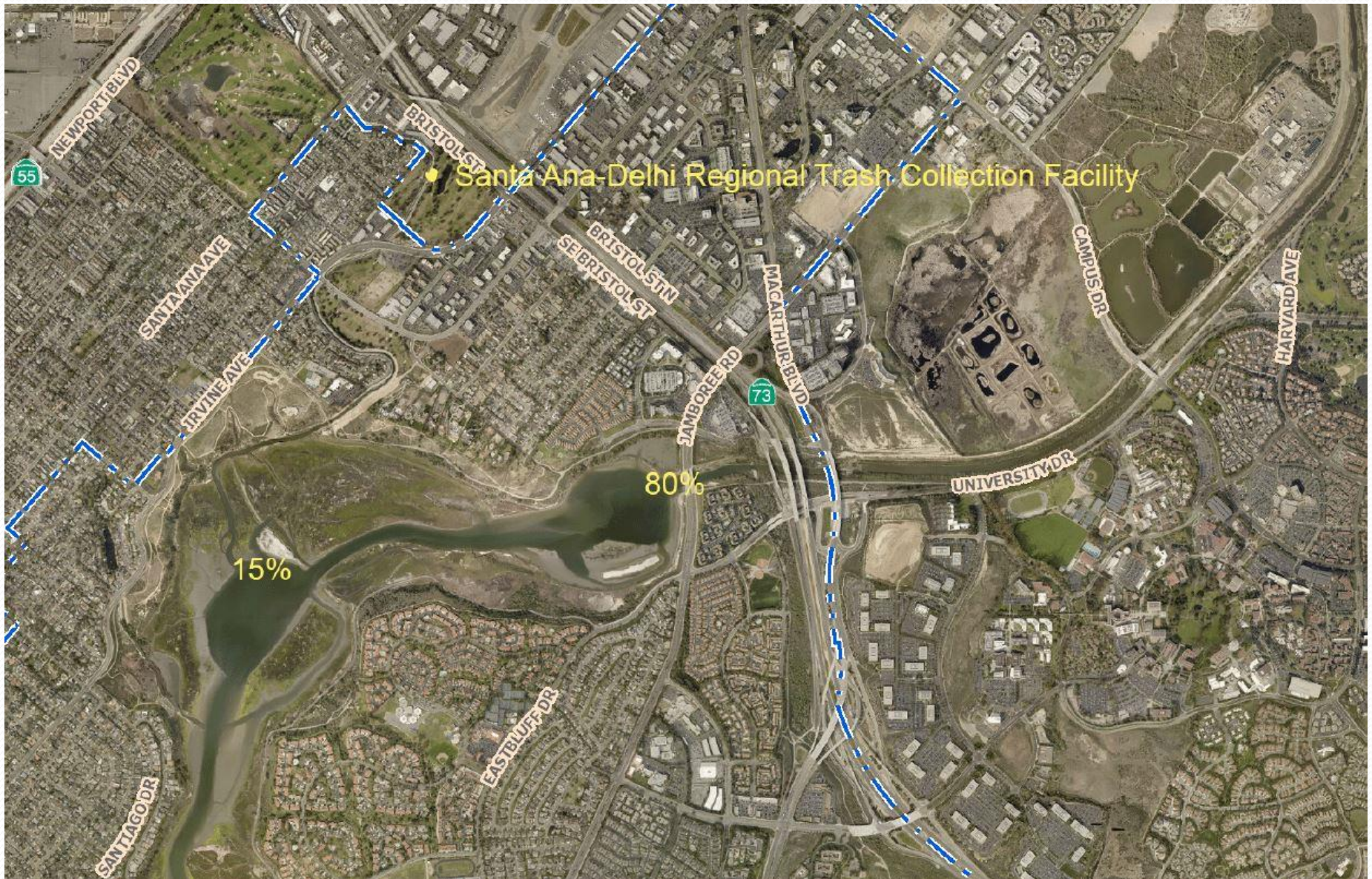
**Regional
Trash Removal Projects**

Public Works
December 1, 2016

Continual Pickup of Trash by Volunteers

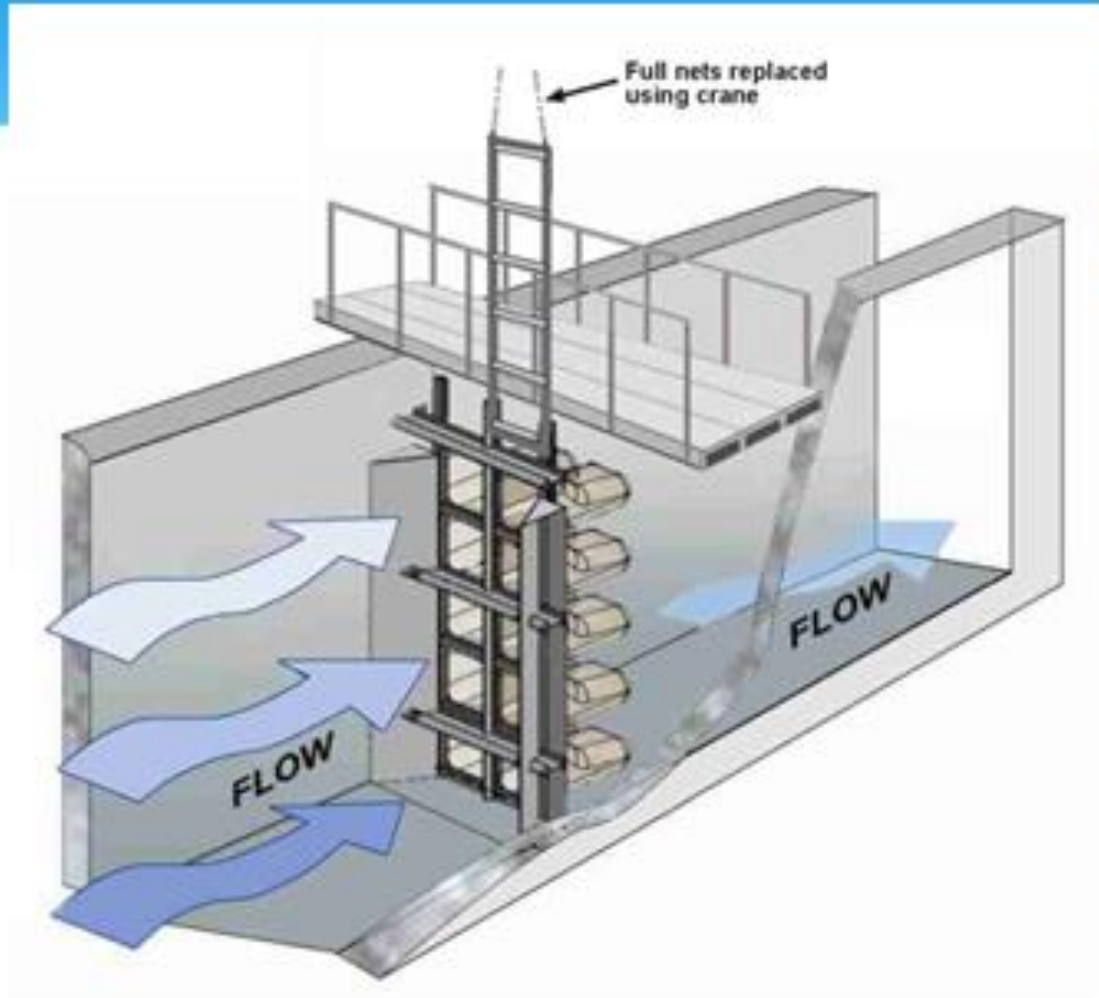


Trash Delivery to Newport Bay



Santa Ana-Delhi Regional Trash Facility

Storm Flow Trash Nets



Trash in Newport Bay from Upstream Sources



How Much Trash?

- The amount of trash for the Santa Ana-Delhi Channel can be directly measured.
- The amount of trash from San Diego Creek can be estimated from the Santa Ana-Delhi Channel modified appropriately by **Land Use** difference.

2015 Trash TMDL: Full compliance with the water quality objective within 15 years

Final Staff Report

Including the Substitute Environmental Documentation

Amendment to the Water Quality Control Plan for the Ocean Waters of California to Control Trash and Part 1 Trash Provisions of the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California



DIVISION OF WATER QUALITY

STATE WATER RESOURCES CONTROL BOARD

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY



Narrative Water Quality Objective

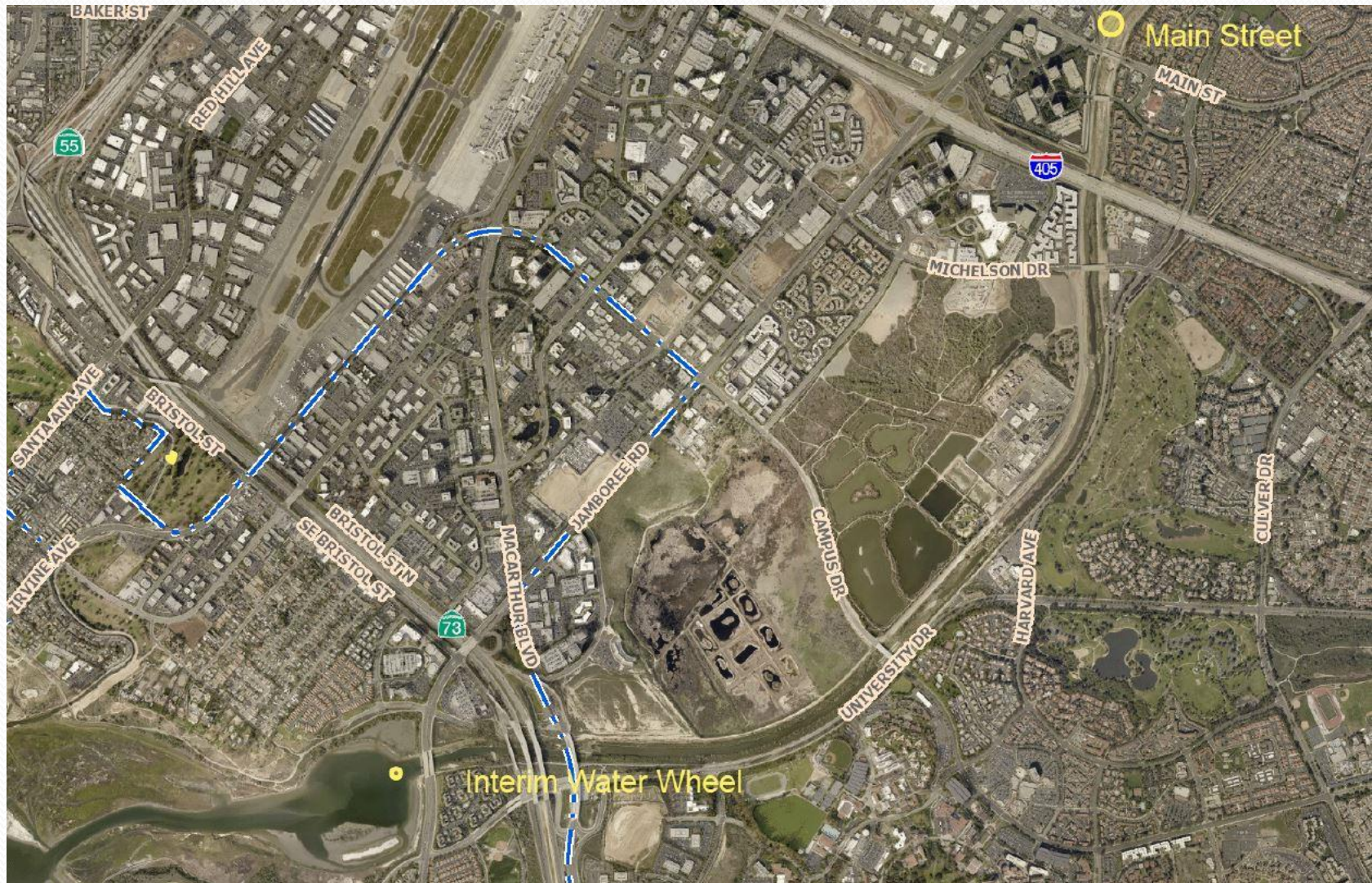
Trash shall not be present in inland surface waters, enclosed bays, estuaries, and along shorelines or adjacent areas in amounts that adversely affect beneficial uses or cause nuisance.

Plan of Implementation

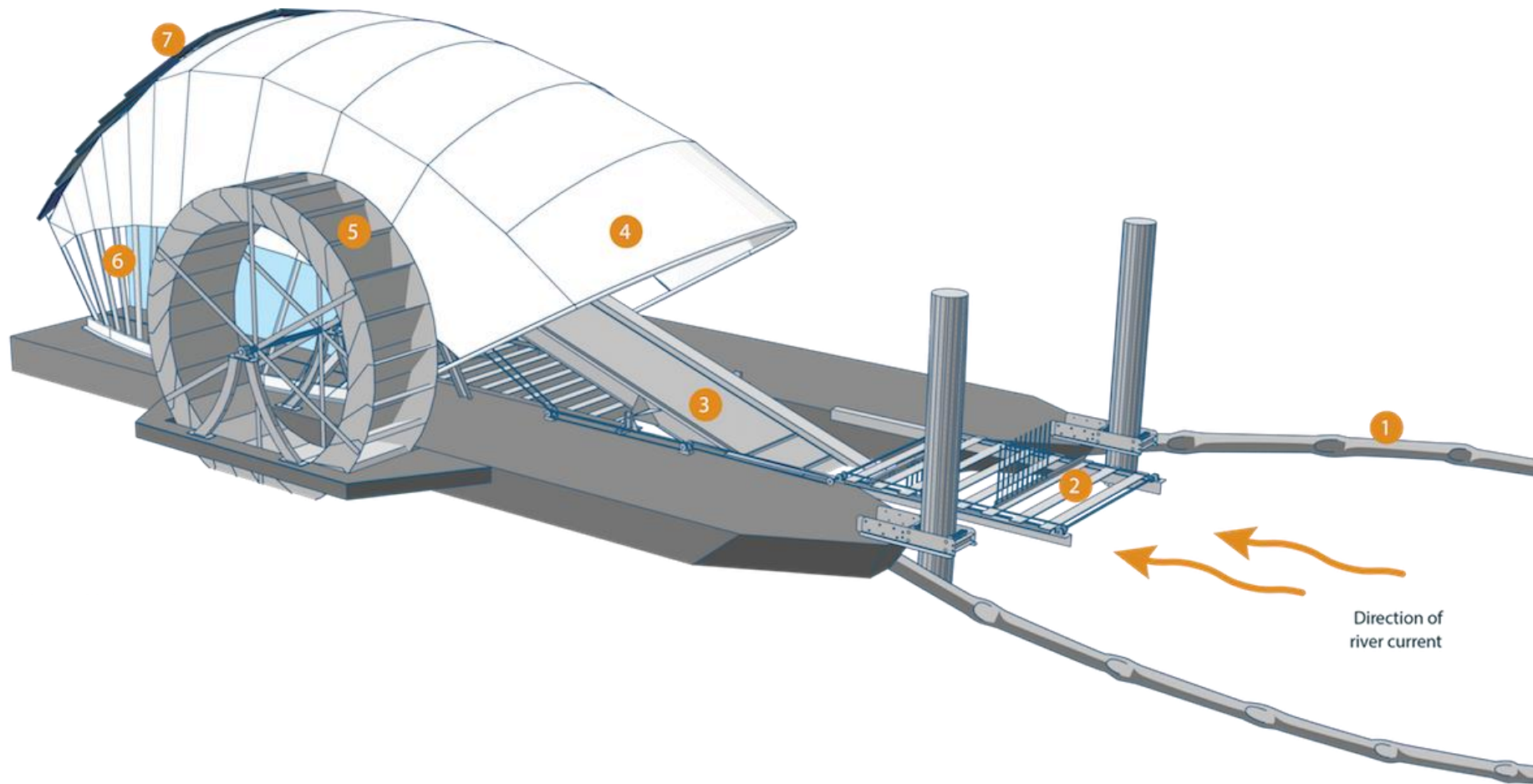
A combination of full capture systems, multi-benefit projects, institutional controls, and/or other treatment controls to achieve full capture system equivalency.



San Diego Creek Regional Trash Facility Options



Water Wheel Project



Baltimore's Success

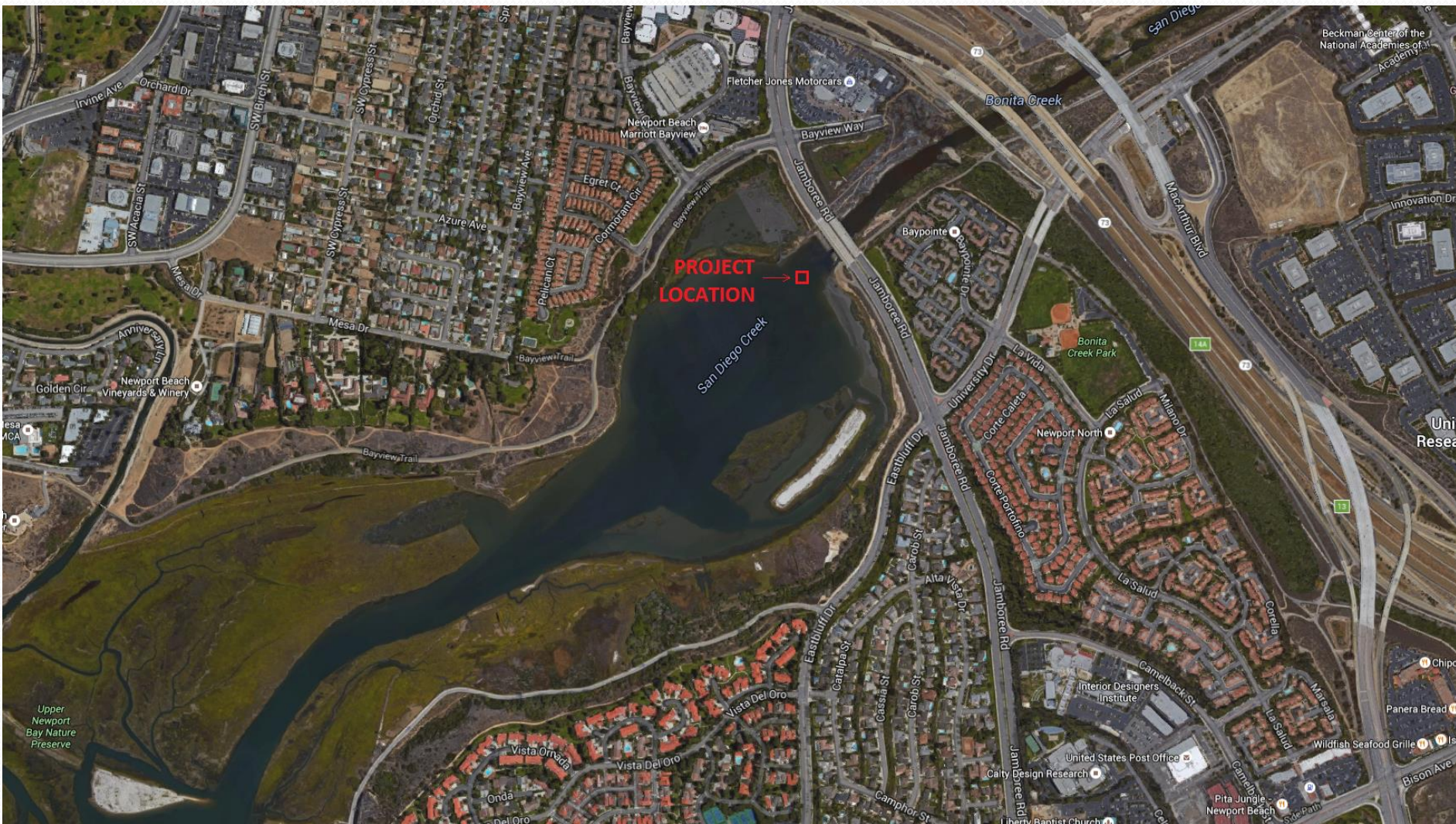
- Removed 406 tons of trash from the Jones Fall River in a year (May 2014 to May 2015)



Initial Study: Environmental Factors

| | | | |
|--|------------------------------------|--|------------------------------------|
| | Aesthetics | | Land Use and Planning |
| | Agriculture and Forestry Resources | | Mineral Resources |
| | Air Quality (Construction) | | Noise (Construction) |
| | Biological Resources | | Population and Housing |
| | Cultural Resources | | Public Services |
| | Geology and Soils | | Recreation |
| | Greenhouse Gas Emissions | | Transportation/Traffic |
| | Hazards & Hazardous Materials | | Utilities & Service Systems |
| | Hydrology & Water Quality | | Mandatory Findings of Significance |

Adjacent Communities: Aesthetic Impacts



Mid-Bayview Way Resident View

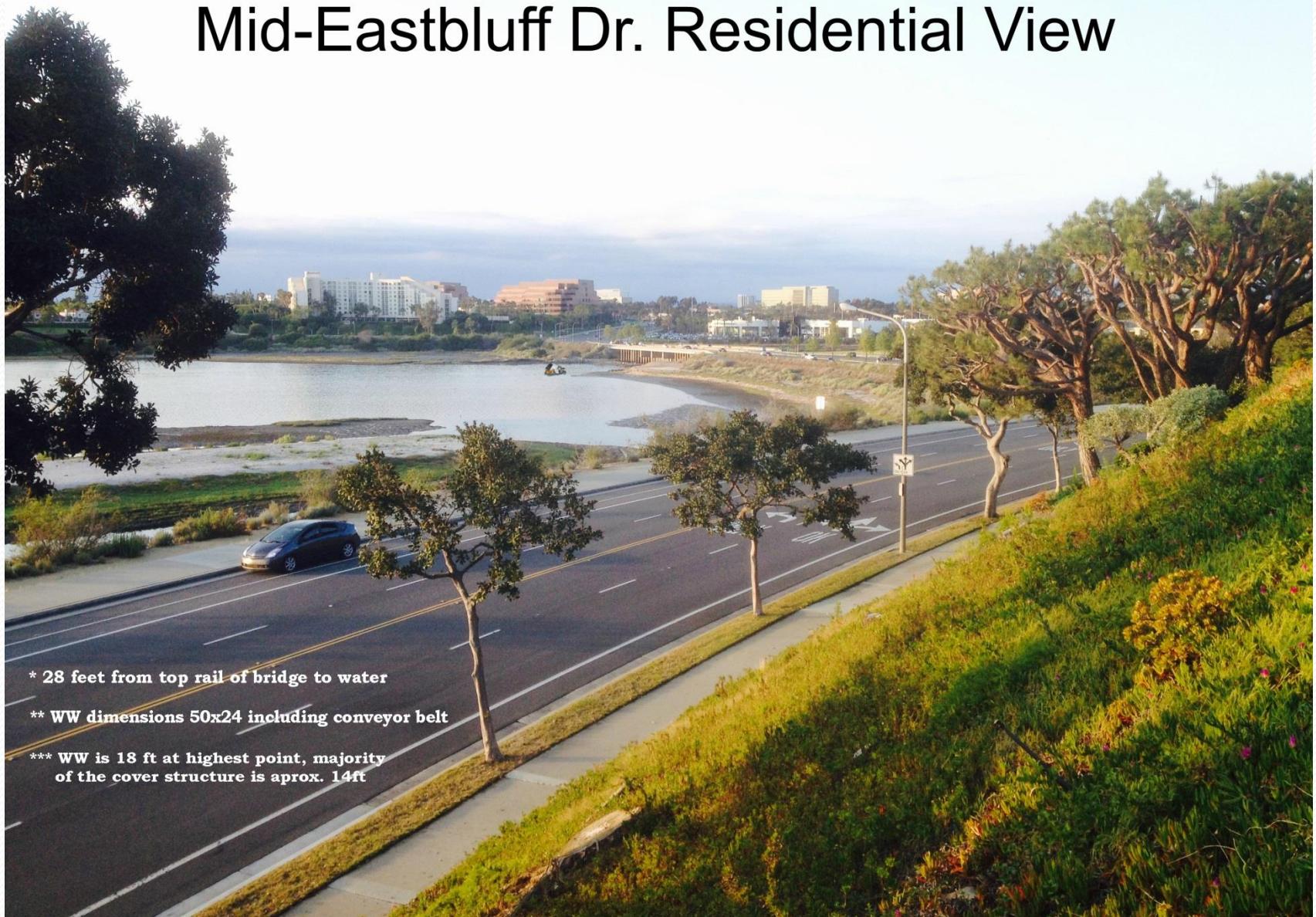


*** 28 feet from top rail of bridge to water**

**** WW dimensions 50x24 including conveyor belt**

***** WW is 18 ft at highest point, majority
of the cover structure is aprox. 14ft**

Mid-Eastbluff Dr. Residential View



* 28 feet from top rail of bridge to water

** WW dimensions 50x24 including conveyor belt

*** WW is 18 ft at highest point, majority of the cover structure is approx. 14ft

Dual Pathways Approach

- Lobby SDC stakeholders to quickly draft a work plan to implement a trash removal program including construction of a regional facility (near Main Street?)
- Pursue a second path to install a regional trash facility in Upper Newport Bay.

Water Wheel Pathway

- Prepare CEQA
- Apply for Grant Funding
- Prepare Construction Documents
- Obtain Permits
- Construct 2019
- Lobby SDC stakeholders to build Main Street Regional Trash Facility
- Dismantle Water Wheel in 2029.

Newport Bay



Conservancy

John Kappeler
Code & Water Quality Enforcement, City of Newport Beach
100 Civic Center Drive, Newport Beach, CA 92660

October 23, 2016
RECEIVED BY PUBLIC WORKS

OCT 25 2016

CITY OF NEWPORT BEACH

Dear John:

As you know, we at the Newport Bay Conservancy continue to be very concerned with problems of trash accumulation in Upper Newport Bay, although it is fair to note that the amounts have declined in recent years, possibly related to the reduction in water flow during the continuing drought.

Howard Cork and I have followed the discussions regarding the proposal to use an active trash-collecting device ("Water wheel") modeled after a device that has been used successfully in Baltimore Harbor. We have given this matter careful thought and had discussions with our Board of Directors and others concerning this proposal as well as other proposals.

We were delighted to hear from Bob Stein at our recent Board meeting about the program under way in the Delhi Channel, which involves collection booms rather than a water wheel. We have also talked with Pat Fuscoe at Fuscoe Engineering about possible boom solutions in San Diego creek.

The position of our Board is that we cannot support the proposal of placing a water wheel in the Upper Newport Bay Ecological Reserve. We feel it would be inappropriate to carry out this kind of construction in the Reserve, which is also a State Marine Conservation Area, and we also feel that it would be an unsightly piece of machinery that would be very unpopular with local residents. We also argue that it would be quite ineffective, since we understand that it fails during storm events when the trash accumulation peaks, and it is also likely that it will be overloaded by vegetative material coming downstream in large quantities. Furthermore if it were to prove effective, it would require frequent service trips through the Reserve to empty the trash collected.

We understand that the Reserve Manager Carla Navarro is also opposed to this particular solution.

We would like to discuss alternative solutions with your committee whenever it is convenient. We are eager to explore different technologies as well as different sites for trash collection both upstream and downstream of the Reserve.

Sincerely

Peter J. Bryant
President, Newport Bay Conservancy

Cc: Diane Dixon, Mayor

Board of Directors

Peter Bryant, President

Tim Brown

Frances Cork

Elizabeth Flint

Donna Flower

Peter Fuhrer

Nancy Gardner

Molly Stallcup

Ian Swift

Jean Whitaker

Danielle Zacherl

Dick Zembal

Advisory Board

Buck Johns

Colleen Johns

Bob Shelton

Jean Watt

Ron Yeo

Our mission is to protect and preserve Upper Newport Bay

Health Care Agency / Environmental Health Newport Bay Bacteriological Monitoring Program
Total Coliform (TC), Fecal Coliform (FC), Enterococcus (ENT) Colony Forming Units / 100 ml Sample

| STATION | Location Description | | 9/29/15 | 4/12/16 | 4/19/16 | 4/26/16 | 6/1/16 | 6/7/16 | 6/14/16 | 6/21/16 | 6/28/16 | 7/6/16 | 7/12/16 | 7/19/16 | 7/26/16 | 8/2/16 | 8/9/16 | 8/16/16 | 8/23/16 | 8/30/16 | 9/7/16 | 9/13/16 | 9/20/16 | 9/27/16 | 10/4/16 | 10/12/16 | 10/18/16 | 10/25/16 | 11/1/16 | 11/8/16 | |
|-------------------------|--------------------------------|-----|---------|---------|---------|---------|--------|--------|---------|---------|---------|--------|---------|---------|---------|--------|--------|---------|---------|---------|--------|---------|---------|---------|---------|----------|----------|----------|---------|---------|----|
| NEWPORT BAY (Upper Bay) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RAIN | | |
| BNB24 | Newport Dunes - Middle | TC | 9 | <9 | <9 | <9 | 9 | <9 | >320 | 9 | >120 | >40 | >220 | >40 | >690 | >100 | >9 | >9 | <9 | <9 | 9 | 400 | 9 | 9 | <9 | 9 | >1440 | >20000 | 20 | >50 | |
| | | FC | <9 | <9 | <9 | <9 | <9 | <9 | <9 | 9 | <9 | 9 | <9 | <9 | <9 | 140 | 9 | <9 | <9 | <9 | <9 | <9 | 40 | 9 | <9 | <9 | 40 | >20000 | <9 | 9 | |
| | | ENT | <9 | <9 | <9 | <9 | <9 | <9 | 9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | 9 | <9 | 9 | <9 | <9 | <9 | <9 | <9 | <9 | |
| BNB24 | Newport Dunes - West | TC | 20 | 20 | 9 | <9 | <9 | <9 | 40 | 9 | 20 | >20 | >610 | >310 | >270 | >180 | >40 | >9 | >40 | <9 | <9 | 550 | 50 | >70 | 9 | 40 | >20000 | >20000 | <9 | 9 | |
| | | FC | <9 | <9 | <9 | <9 | <9 | 9 | 9 | <9 | 9 | <9 | <9 | 9 | 20 | 90 | <9 | <9 | <9 | 20 | 9 | 9 | 50 | 20 | <9 | 9 | 4100 | 10400 | 9 | 9 | |
| | | ENT | 30 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | 20 | <9 | 9 | 9 | 9 | <9 | <9 | <9 | <9 | <9 | 20 | 30 | <9 | <9 | 790 | 1600 | <9 | <9 |
| BNB24 | Newport Dunes - East | TC | >120 | 30 | <9 | >9 | >1020 | >30 | <9 | >9 | 60 | >91 | >9 | <9 | >360 | >9 | >9 | >9 | >9 | 120 | 40 | >50 | <9 | 70 | >9 | 40 | 240 | >20000 | 30 | 30 | |
| | | FC | 20 | 20 | <9 | <9 | 260 | <9 | 9 | <9 | <9 | <9 | <9 | <9 | 20 | <9 | <9 | <9 | <9 | 40 | 30 | <9 | <9 | 60 | <9 | <9 | 20 | >20000 | 20 | 9 | |
| | | ENT | 9 | 9 | <9 | <9 | <9 | <9 | 9 | <9 | <9 | <9 | <9 | <9 | >9 | 9 | <9 | <9 | 20 | <9 | 40 | <9 | 9 | <9 | 9 | 9 | <9 | 9 | 1600 | 30 | 20 |
| BNB24 | Newport Dunes - North | TC | 120 | 40 | <9 | <9 | >9 | >20 | <9 | >9 | <9 | >150 | >9 | >9 | >250 | <9 | >9 | >80 | 20 | <9 | 30 | >160 | 20 | <9 | >9 | 20 | >20000 | >20000 | 40 | <9 | |
| | | FC | 20 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | 9 | <9 | <9 | 30 | <9 | 9 | 9 | 9 | <9 | 130 | <9 | <9 | 9 | 20 | >13800 | >20000 | 20 | <9 | |
| | | ENT | <9 | 9 | 9 | <9 | <9 | <9 | 9 | <9 | <9 | <9 | <9 | <9 | 9 | <9 | 9 | <9 | <9 | 20 | <9 | 9 | <9 | <9 | 30 | <9 | <9 | 990 | 320 | <9 | <9 |
| BNB25 | Vaughn's Launch | TC | >40 | NS | >9 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | >9 | NS | >9 | NS | NS | NS | NS | NS | NS | |
| | | FC | 9 | NS | 9 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | <9 | NS | <9 | NS | NS | NS | NS | NS | NS | NS |
| | | ENT | 40 | NS | 20 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | 9 | NS | <9 | NS | NS | NS | NS | NS | NS |
| BNB26 | Ski Zone | TC | NS | NS | >3800 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | >9 | NS | NS | NS | NS | NS | NS | |
| | | FC | NS | NS | <9 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | <9 | NS | NS | NS | NS | NS | NS | |
| | | ENT | NS | NS | 390 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | <9 | NS | NS | NS | NS | NS | NS | NS |
| BNB28 | North Star Beach | TC | 30 | <9 | <9 | <9 | 9 | <9 | 130 | >9 | >9 | >9 | >20 | >9 | >9 | >9 | >9 | 9 | <9 | 9 | <9 | 30 | 40 | <9 | 20 | >80 | >12000 | >20000 | 30 | >1500 | |
| | | FC | <9 | <9 | <9 | <9 | <9 | <9 | 9 | 20 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | 9 | <9 | <9 | <9 | 20 | 300 | >20000 | <9 | 100 | | |
| | | ENT | <9 | <9 | <9 | <9 | <9 | 9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | 9 | 9 | 9 | 9 | <9 | 9 | 9 | 9300 | 9 | <9 | 91 |
| BNB30 | De Anza | TC | 30 | <9 | <9 | <9 | <9 | 9 | <9 | 50 | <9 | 40 | >9 | >9 | >9 | 30 | <9 | 9 | 50 | 9 | 40 | <9 | 40 | <9 | <9 | <9 | 310 | >20000 | <9 | <9 | |
| | | FC | <9 | <9 | <9 | <9 | <9 | <9 | <9 | 40 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | 20 | <9 | 9 | <9 | <9 | <9 | <9 | <9 | 20 | >20000 | <9 | <9 | | |
| | | ENT | 9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | 160 | <9 | 9 | <9 | <9 | 20 | <9 | >9 | <9 | 9 | <9 | 9 | <9 | <9 | <9 | 9 | 4500 | <9 | <9 | | |
| BNB05 | Bayshore Beach | TC | 20 | <9 | 70 | <9 | <9 | 40 | >9 | >50 | <9 | >40 | >60 | >9 | 40 | 9 | >9 | 9 | 20 | 20 | 20 | 9 | 30 | 20 | 40 | 50 | 100 | >20000 | 40 | <9 | |
| | | FC | 9 | <9 | 9 | <9 | <9 | 9 | <9 | 9 | <9 | 9 | <9 | 20 | <9 | 40 | <9 | <9 | <9 | <9 | 20 | <9 | 9 | <9 | <9 | <9 | <9 | >20000 | <9 | <9 | |
| | | ENT | <9 | <9 | <9 | <9 | <9 | <9 | <9 | 9 | <9 | >20 | <9 | <9 | <9 | 9 | 9 | 9 | <9 | <9 | <9 | 30 | <9 | <9 | <9 | <9 | 9 | 2900 | <9 | 9 | |
| NEWPORT BAY TRIBUTARIES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CNBCD | San Diego Creek - Campus Dr. | TC | 35000 | >1900 | >1200 | >1500 | >390 | >400 | >1600 | >900 | >1900 | >1600 | >1800 | >1900 | >2400 | >3500 | >4200 | >2100 | >1300 | >4600 | >2400 | >3400 | >2600 | >2000 | >1400 | >4600 | >200000 | >156000 | >4400 | >3000 | |
| | | FC | 500 | 260 | 210 | 270 | 230 | 160 | 570 | 290 | 210 | 610 | >410 | 150 | >350 | >140 | 310 | 180 | 330 | 1310 | 590 | 790 | 850 | 630 | 600 | 2500 | >20000 | >20000 | 1060 | 2400 | |
| | | ENT | 370 | 160 | 120 | 110 | 50 | 150 | 270 | 270 | 140 | 350 | 170 | 200 | 160 | 230 | 410 | 250 | 200 | 500 | 380 | 550 | 450 | 390 | 320 | 570 | >20000 | >20000 | 650 | 1540 | |
| CNBSA | Santa Ana Delhi Channel | TC | >2500 | >3400 | >2700 | >2600 | >3900 | 17000 | >3600 | >420 | >280 | >200 | >280 | >80 | >470 | >6600 | >1900 | >430 | >250 | >1700 | >760 | >800 | >1600 | >7800 | >1040 | 17000 | >200000 | >200000 | >2100 | >8500 | |
| | | FC | >410 | 120 | 390 | 100 | 130 | 7500 | 390 | 370 | 210 | 40 | 50 | 20 | 60 | >170 | >40 | 140 | 90 | 140 | 380 | 480 | 982 | 3100 | 40 | 500 | >20000 | >20000 | 180 | 770 | |
| | | ENT | 230 | 240 | 140 | 210 | 390 | 1350 | 1030 | 280 | 210 | 70 | 50 | 9 | 260 | 80 | >30 | 140 | 70 | 80 | >580 | 100 | 330 | 770 | 80 | 660 | >20000 | >19800 | 290 | 2300 | |
| CNBBC | Big Canyon Creek | TC | >5100 | >1900 | >140 | >1400 | >320 | >160 | >380 | >1500 | >2700 | >11200 | >20000 | >5800 | >9000 | >20000 | >10300 | >1400 | NS | NS | NS | NS | >4400 | >13700 | >9200 | >4400 | >20000 | >20000 | NS | >2800 | |
| | | FC | 450 | 330 | <9 | <9 | 520 | 140 | 20 | 30 | 360 | 13100 | >20000 | >1300 | >270 | >1400 | 3200 | 180 | NS | NS | NS | NS | >280 | 370 | 480 | 140 | >1140 | 8400 | NS | 440 | |
| | | ENT | 430 | 310 | 100 | 80 | 1000 | 500 | 30 | 180 | 760 | 2200 | >20000 | 420 | 1100 | 140 | 583 | 110 | NS | NS | NS | NS | 420 | 490 | 270 | 240 | 2900 | 16300 | NS | 890 | |
| CNBND | Backbay Drive Pipe | TC | NS | >2700 | >1100 | >1120 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | |
| | | FC | NS | 30 | <9 | 270 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | |
| | | ENT | NS | 330 | 260 | 390 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | |
| NEWPORT SLOUGH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BNS01 | Lancaster Street & 61st Street | TC | 20 | <9 | >50 | >91 | >150 | 9 | <9 | >100 | <9 | >40 | >9 | >9 | <9 | >30 | 9 | >9 | 230 | >70 | 230 | >60 | 230 | >30 | | | >2400 | >40 | <9 | 20 | |
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| | | ENT | 9 | 9 | <9 | <9 | 20 | 20 | 9 | <9 | <9 | <9 | 9 | <9 | 30 | <9 | <9 | <9 | 20 | 20 | <9 | <9 | <9 | 9 | <9 | | <9 | 9 | <9 | <9 | |
| BNS02 | Grant Street | TC | 40 | <9 | 20 | >9 | >60 | 20 | >100 | 9 | >9 | >140 | >20 | >40 | 140 | 140 | >50 | >230 | 140 | 9 | 9 | <9 | 40 | 40 | | | 20 | >120 | 9 | >60 | |
| | | FC | 9 | <9 | <9 | 20 | 30 | 20 | <9 | 9 | <9 | 20 | <9 | 70 | 30 | 20 | 20 | 190 | 80 | <9 | <9 | <9 | 9 | <9 | | | <9 | <9 | <9 | 30 | |
| | | ENT | 20 | 9 | 20 | 9 | <9 | 9 | <9 | <9 | 9 | 40 | <9 | 9 | 9 | 20 | <9 | 30 | 9 | <9 | 9 | 9 | <9 | 40 | | | 9 | 9 | <9 | 30 | |

NS - NOT SAMPLED
 LA - LAB ACCIDENT
 Cw(o)C- CONFLUENT GROWTH
 WITH(OUT) COLIFORMS
 TNTC - TOO NUMEROUS TO COUNT

SINGLE SAMPLE STANDARDS:
 Total Coliforms - 10,000 organisms per 100 milliliters sample.
 Fecal Coliforms - 400 organisms per 100 milliliters sample.
 Enterococci - 104 organisms per 100 milliliters sample.
 Fecal:Total Ratio

Health Care Agency / Environmental Health Newport Bay Bacteriological Monitoring Program
Total Coliform (TC), Fecal Coliform, Enterococcus (ENT) Colony Forming Units / 100 ml Sample

| STATION | Location Description | | 3/15/16 | 3/22/16 | 3/29/16 | 6/4/16 | 6/21/16 | 6/28/16 | 7/6/16 | 7/12/16 | 7/19/16 | 7/26/16 | 8/2/16 | 8/9/16 | 8/16/16 | 8/23/16 | 8/30/16 | 9/7/16 | 9/13/16 | 9/20/16 | 9/27/16 | 10/4/16 | 10/12/16 | 10/18/16 | 10/25/16 | 11/1/16 | 11/8/16 |
|--------------------------------|--------------------------|-----|---------|---------|---------|--------|---------|---------|--------|---------|---------|---------|--------|--------|---------|---------|---------|--------|---------|---------|---------|---------|----------|----------|----------|---------|---------|
| NEWPORT BAY (Lower Bay) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BNB09 | 43rd Street Beach | TC | 9 | <9 | 60 | 2000 | >9 | >9 | >1030 | 9 | >40 | 40 | >50 | >40 | >140 | 9 | >200 | 120 | >310 | <9 | >30 | 9 | 80 | >310 | >9200 | <9 | 50 |
| | | FC | <9 | <9 | <9 | <9 | <9 | <9 | <9 | 40 | <9 | <9 | <9 | 9 | <9 | <9 | <9 | <9 | 20 | 9 | <9 | <9 | <9 | <9 | <9 | <9 | |
| | | ENT | <9 | <9 | 9 | <9 | <9 | 9 | 9 | 9 | <9 | <9 | 40 | 9 | 9 | <9 | 20 | 70 | 30 | <9 | <9 | <9 | <9 | <9 | 1800 | <9 | <9 |
| BNB10 | 38th Street Beach | TC | <9 | <9 | <9 | <9 | <9 | <9 | >700 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | >40 | 110 | 100 | 9 | 30 | <9 | >150 | >200 | >7900 | 80 | 20 |
| | | FC | <9 | <9 | <9 | <9 | 9 | <9 | 40 | <9 | 9 | <9 | <9 | <9 | <9 | <9 | 20 | 9 | 9 | <9 | <9 | <9 | <9 | <9 | 2100 | <9 | <9 |
| | | ENT | <9 | <9 | <9 | <9 | 9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | 9 | <9 | <9 | <9 | <9 | <9 | <9 | 1630 | <9 | <9 |
| BNB11 | 33rd Street Channel | TC | >500 | >30 | <9 | 9 | >40 | >30 | 1500 | >130 | <9 | >330 | <9 | <9 | >70 | 40 | >91 | >50 | >590 | <9 | <9 | <9 | 3300 | >40 | >7900 | 80 | >380 |
| | | FC | <9 | 9 | <9 | <9 | <9 | <9 | 40 | 60 | <9 | >20 | <9 | <9 | <9 | <9 | 40 | <9 | 20 | <9 | <9 | <9 | 40 | <9 | 1100 | <9 | 20 |
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| BNB32 | Lido Yacht Club Beach | TC | 60 | 20 | <9 | 9 | 9 | <9 | <9 | 40 | <9 | <9 | <9 | <9 | <9 | <9 | >40 | 70 | <9 | 20 | <9 | <9 | 20 | >550 | >20000 | <9 | <9 |
| | | FC | 30 | <9 | <9 | <9 | <9 | <9 | <9 | 40 | 20 | <9 | <9 | <9 | <9 | <9 | 20 | 9 | <9 | 9 | <9 | <9 | 9 | <9 | 4700 | <9 | <9 |
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| BNB07 | Via Genoa Beach | TC | <9 | 200 | 20 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | 9 | 50 | <9 | <9 | 40 | <9 | <9 | <9 | <9 | 20 | 790 | >11400 | 9 | 20 |
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| BNB35 | Newport Blvd. Bridge | TC | NS | >10800 | 30 | >2400 | 330 | >20000 | 150 | 410 | 7000 | >660 | 310 | >260 | 30 | >1230 | 50 | 2800 | 50 | 350 | 180 | 9 | 30 | >340 | >11900 | 20 | 40 |
| | | FC | NS | 840 | <9 | >280 | <9 | 90 | 9 | 50 | 1400 | 90 | 120 | <9 | <9 | 9 | 180 | <9 | <9 | <9 | 20 | 9 | 9 | 9 | 2300 | <9 | 9 |
| | | ENT | NS | <9 | <9 | 30 | <9 | 40 | 9 | <9 | <9 | <9 | <9 | 870 | <9 | 9 | <9 | 30 | <9 | 9 | 140 | <9 | 9 | <9 | 570 | <9 | 40 |
| BNB12 | Rhine Channel | TC | 40 | <9 | 9 | 150 | >110 | >250 | 140 | 30 | <9 | 40 | 9 | >20 | 30 | 100 | 91 | 30 | >690 | 50 | 9 | 30 | 290 | >370 | >20000 | 40 | <9 |
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| | | ENT | <9 | <9 | <9 | <9 | 280 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | 280 | <9 | <9 | <9 | <9 | <9 | <9 | 1280 | <9 | <9 |
| BNB14 | 19th Street Beach | TC | <9 | 9 | <9 | 9 | <9 | <9 | >30 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | 9 | 40 | <9 | 9 | 70 | >9 | >20000 | >20 | >9 | |
| | | FC | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | 9 | <9 | <9 | <9 | 30 | <9 | 3800 | <9 | <9 | |
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| BNB15 | 15th Street Beach | TC | 20 | <9 | <9 | 20 | 30 | >140 | <9 | 40 | 30 | >600 | 660 | 40 | 640 | 9 | 20 | <9 | 30 | 30 | 70 | 20 | 180 | 20 | >20000 | >9 | 20 |
| | | FC | <9 | <9 | <9 | 9 | <9 | <9 | <9 | 9 | <9 | 30 | 210 | 9 | 340 | <9 | <9 | <9 | 9 | <9 | <9 | <9 | <9 | <9 | 2900 | <9 | 9 |
| | | ENT | <9 | <9 | <9 | <9 | 60 | <9 | <9 | 40 | 280 | <9 | <9 | <9 | <9 | <9 | <9 | 20 | <9 | <9 | <9 | <9 | <9 | <9 | 740 | <9 | <9 |
| BNB17 | 10th Street Beach | TC | 9 | 9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | 20 | <9 | <9 | <9 | 30 | 9 | <9 | <9 | 9 | <9 | 40 | 520 | >20000 | 20 | >9 |
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| | | ENT | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | 1180 | <9 | <9 |
| BNB18 | Alvarado/ Bay Isle Beach | TC | 40 | 230 | <9 | <9 | <9 | <9 | 9 | <9 | <9 | 9 | 9 | <9 | <9 | <9 | 40 | <9 | >300 | <9 | 9 | 40 | 90 | 20 | >20000 | 40 | 20 |
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| | | ENT | <9 | 9 | <9 | 50 | 9 | 9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | 3 | 30 | <9 | <9 | <9 | <9 | <9 | <9 | 600 | <9 | <9 |
| BNB22 | N Street Beach | TC | 9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | 40 | 20 | 50 | <9 | <9 | 20 | >90 | 20 | <9 | <9 | <9 | 30 | <9 | >1340 | 20 | 9 |
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| BNB31 | Garnet Avenue Beach | TC | 20 | 20 | 9 | 180 | 20 | >40 | >70 | >1070 | <9 | <9 | >260 | <9 | 9 | 9 | 9 | 20 | >40 | >120 | >40 | <9 | 220 | 40 | >14300 | 20 | 9 |
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| BNB03 | Ruby Avenue Beach | TC | 30 | <9 | <9 | <9 | 50 | <9 | 20 | <9 | 9 | 30 | >30 | <9 | <9 | <9 | 90 | 90 | >30 | 20 | 9 | 9 | 9 | 150 | >12200 | 20 | 9 |
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| BNB20 | Sapphire Avenue Beach | TC | >440 | 9 | <9 | <9 | >20 | >40 | >2 | <9 | <9 | 20 | 30 | 9 | 9 | <9 | >80 | >260 | >20 | 9 | 9 | 9 | 9 | >30 | >4700 | >1680 | 9 |
| | | FC | 80 | <9 | <9 | <9 | 40 | 9 | <9 | <9 | <9 | 9 | 20 | <9 | 9 | <9 | <9 | 30 | 60 | <9 | <9 | <9 | <9 | 9 | >210 | 1400 | <9 |
| | | ENT | 50 | <9 | <9 | 9 | <9 | 30 | <9 | <9 | <9 | <9 | <9 | 9 | <9 | 9 | <9 | 9 | 9 | <9 | <9 | <9 | <9 | 9 | 40 | 9 | <9 |
| BNB34 | Grand Canal | TC | 530 | 50 | 9 | >91 | 340 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | FC | 320 | 9 | <9 | 80 | 260 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | ENT | 40 | <9 | 20 | 9 | <9 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| BNB21 | Abalone Avenue Beach | TC | 390 | 9 | 50 | >20 | >1090 | >380 | 3700 | >330 | >30 | >140 | >630 | 200 | 100 | 1500 | 40 | 440 | <9 | 140 | <9 | >20 | 20 | >140 | >1000 | 20 | 170 |
| | | FC | 150 | <9 | 40 | 40 | 1270 | 350 | 4000 | 230 | 40 | 70 | 670 | 140 | 70 | 1140 | 9 | 290 | 9 | 30 | <9 | 9 | 9 | 120 | 100 | 40 | 60 |
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| BNB01 | Park Avenue Beach | TC | 160 | <9 | 90 | <9 | 20 | 9 | 20 | <9 | 9 | <9 | <9 | 9 | <9 | 9 | 100 | 9 | 9 | 40 | 30 | 20 | <9 | <9 | >2700 | 40 | 30 |
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| BNB02 | Onyx Avenue Beach | TC | 20 | <9 | 80 | <9 | 70 | <9 | >130 | 9 | 20 | <9 | >30 | <9 | 20 | 9 | 20 | <9 | 20 | 30 | 40 | 9 | <9 | 50 | >6300 | 9 | <9 |

OCSD Bacteriological Ocean Monitoring Program
Total Coliform (TC), Fecal Coliform (FC),
Enterococcus (ENT) Colony Forming Units/100 ml Sample

| DATE | | 7/13 | 7/19 | 7/20 | 7/26 | 7/27 | 8/2 | 8/3 | 8/10 | 8/16 | 8/17 | 8/23 | 8/24 | 8/30 | 8/31 | 9/6 | 9/7 | 9/13 | 9/14 | 9/20 | 9/21 | 9/27 | 9/28 | 10/4 | 10/5 | 10/11 | 10/12 | 10/18 | 10/19 | 10/25 | 10/26 | 11/1 | 11/2 | 11/8 | 11/9 |
|----------------|-----|------|------|------|------|------|-----|-----|------|------|------|------|------|------|------|-----|-----|------|------|------|------|------|------|------|------|-------|-------|--------|-------|-------|-------|------|------|------|------|
| Location/ Tide | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Bolsa Chica | TC | | <17 | | <17 | | 67 | | | <17 | | <17 | | <17 | | <17 | | 17 | | <17 | | 17 | | <17 | | <17 | | >11000 | | <17 | | <17 | | <17 | |
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| Bluffs | TC | | 17 | | <17 | | 17 | | | 17 | | <17 | | 17 | | <17 | | <17 | | <17 | | <17 | | <17 | | 67 | | 900 | | 17 | | 17 | | <17 | |
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| 17th Street | TC | | 33 | | <17 | | <17 | | | <17 | | <17 | | <17 | | <17 | | 17 | | <17 | | <17 | | <17 | | <17 | | 1000 | | <17 | | <17 | | <17 | |
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| 15N | ENT | | 6 | | 4 | | 26 | | | 2 | | 6 | | 24 | | 6 | | 33 | | 2 | | <2 | | <2 | | 2 | | 4 | | 16 | | 8 | | <2 | |
| Beach Blvd. | TC | | 120 | | <17 | | 33 | | | <17 | | <17 | | 67 | | <17 | | <17 | | 17 | | <17 | | <17 | | <17 | | 33 | | 130 | | <17 | | 17 | |
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| SCE Plant | TC | 170 | 580 | 33 | 33 | 17 | 460 | 270 | <17 | 17 | 17 | 17 | <17 | 33 | 33 | <17 | <17 | 17 | 17 | 67 | <17 | <17 | <17 | <17 | <17 | <17 | <17 | 17 | <17 | 1700 | <17 | <17 | <17 | <17 | |
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| Magnolia | TC | 17 | 88 | 150 | <17 | 83 | 130 | 67 | 1500 | 120 | 220 | <17 | 17 | 33 | 50 | <17 | 17 | <17 | <17 | 50 | <17 | <17 | <17 | <17 | <17 | 33 | 17 | 50 | 67 | 2600 | <17 | <17 | 67 | <17 | |
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