Newport Bay Water Wheel Trash Removal Project

City of Newport Beach Harbor Commission

> John Kappeler Public Works Department January 8, 2020

Trash and Debris Projects

Capture and Collection Devices

- Install 435 Screens on Catch Basins in the Dry Season.
- Installed 450 Screens inside Catch Basins
- Approximately 40 Continuous Deflective Separation (CDS) Units Installed Citywide. (public and private)

Annually Clean 3.2 Miles of Drainage Channels

and 3,400 Catch Basins.

Street Sweeping over 36,000
 Curb Miles.









Trash and Debris Projects

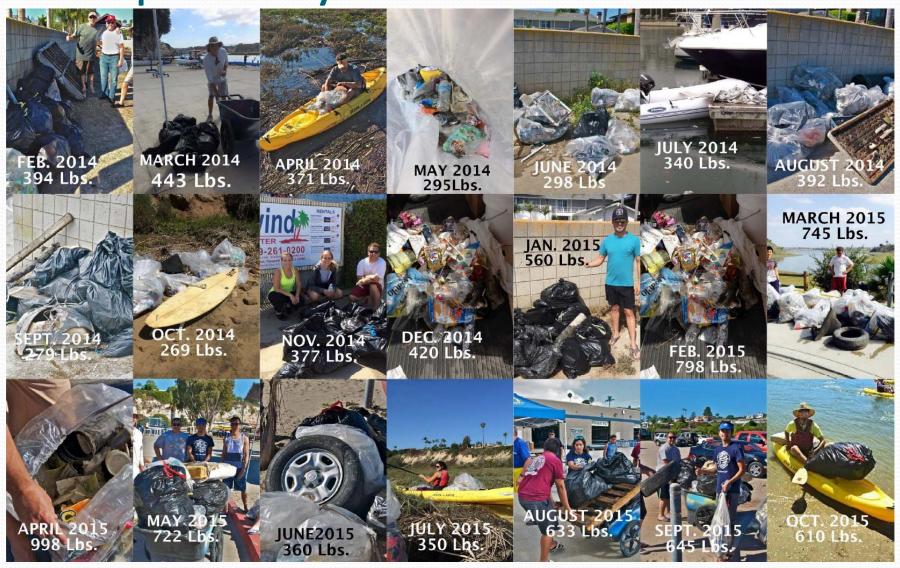
Capture and Collection Devices

- City Maintained Upper Bay Log Boom (More than 75 Tons of Debris Removed this Storm Season)
- City Installed and Maintains 6 Trash Skimmers
- City Coordinates/Participates in Various Clean-Up Events





Newport Bay Over The Years



2nd Annual Newport Harbor Underwater Cleanup

EVENT TOTALS:

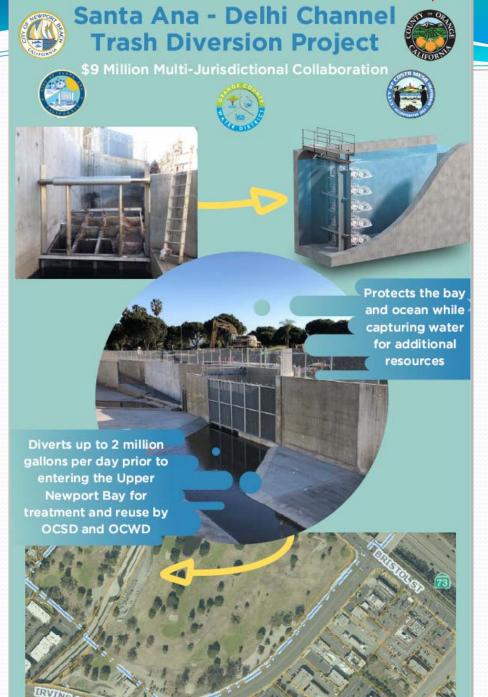
- 223 Volunteers
- 15 Duffy Boats
- Estimated 4,100 pounds of trash
- 18 Environmental Exhibitors







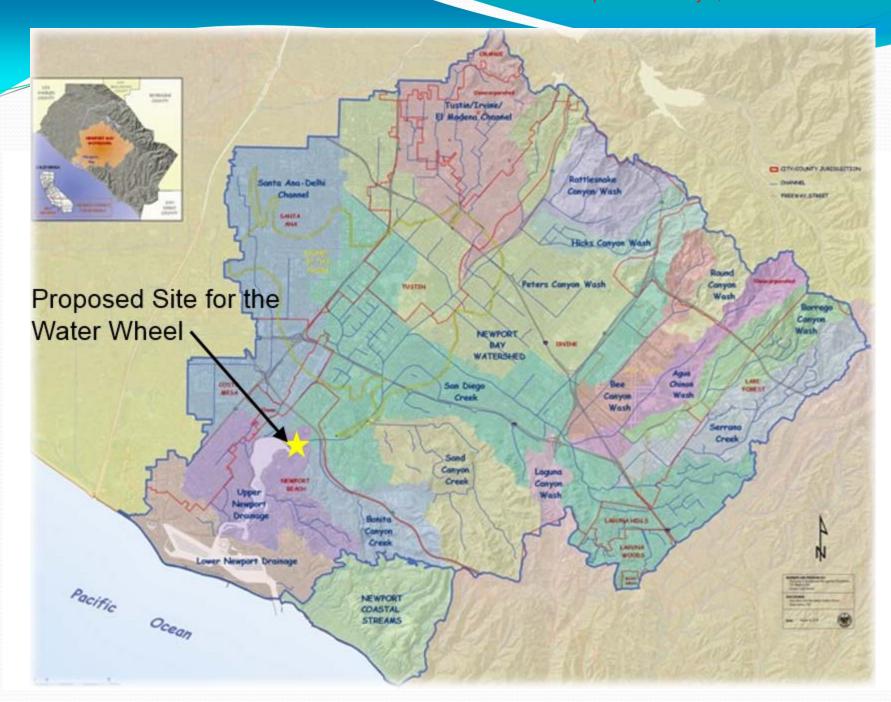
Water Wheel Update - January 8, 2020 Harbor Commission Meeting



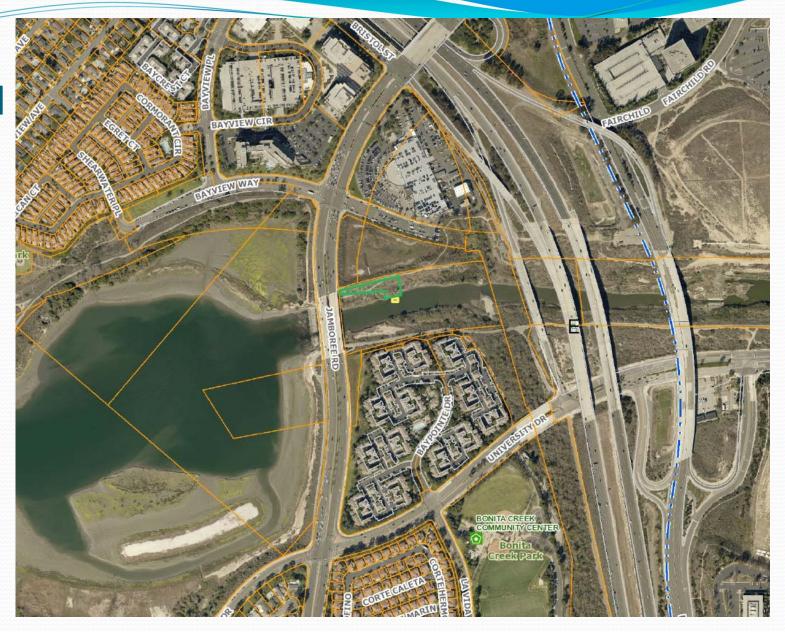


The Water Wheel Project



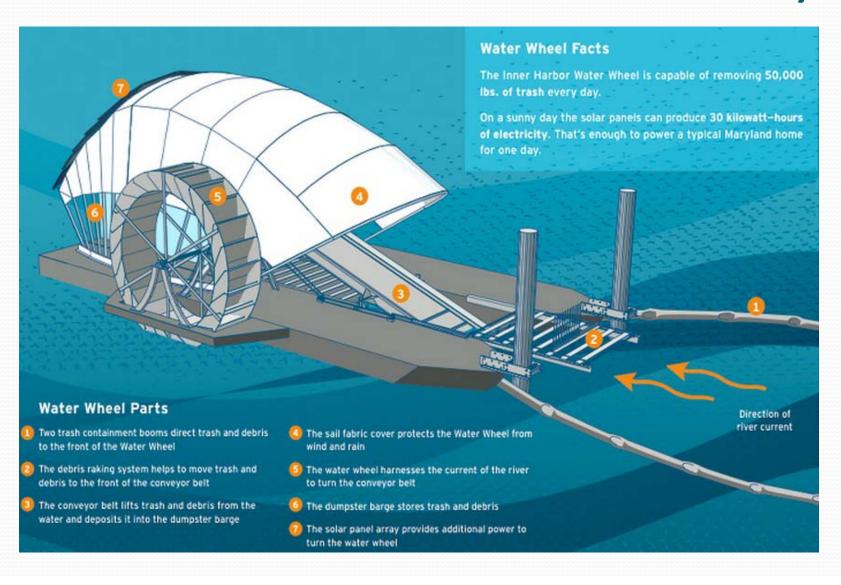


Proposed Location





\$1.7M Grant Awarded to the City





mrtrashwheel Follow 622 posts 8,762 followers 316 following

Official voice of the Water Wheel cleaning Baltimore's Inner Harbor. Likes tires but not

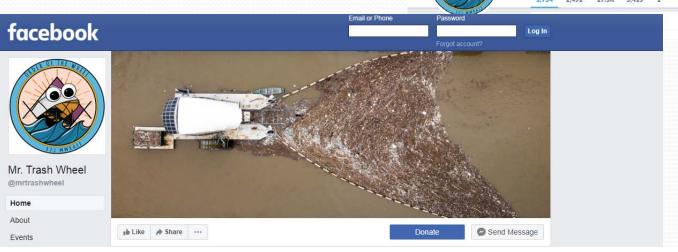
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Public Education Concepts

- Build a public viewing platform with educational signage
- Expand/mimic the City's Tidepool Ranger Program
- Create a Website, IG, Twitter, Youtube and/or Facebook pages
- Fund a program to measure and quantify trash
- Webcam and/or other real-time social media live feed
- Creative design concept for the trash wheel

www.Flickr.com/healthyharbor



Project Schedule

Project Schedule	Date
Preliminary Engineering	Complete
Environmental Review (CEQA)	Complete
OPC Grant Agreement	Complete
Consultant Contract Award	February 11, 2020 City Council Mtg
Detail Design / Permitting	2020
Construction	2021

Project Budget

Task	Estimate
Design/Engineering/Permitt ing	\$550,000
Water Wheel	\$750,000
Construction	\$700,000
Total	\$2,000,000
O&M	\$25,000 - \$50,000/Annually

Questions & Comments



Your Public Works Department

A Well-Engineered Machine

Protecting and Providing Quality
Public Improvements and Services