

Ad-Hoc Committee on Water Education

Report to the CSD December 7, 2016

The purpose of the committee is to develop content and delivery of a water education day for Muir Beachers, at the request of Board Chair, Gary Friedman.

Committee members

- Mary Halley (west marin knowledge and experience in implementing water systems in Marshall)
- Greg Kidd (Muir beach resident incurring spike in water bill due to undetected water leak, background in policy and entrepreneurship)
- Marilyn Laatsch (long term resident, wanting to understand more about MB water and how it affects property values in Muir Beach)
- Jamie Workman (Author on watersheds, Deputy director of EDF's **Catch Share Design Center**, enabling sustainable fishery management...working with local communities on implementing water monitoring and management systems)
- Gary Friedman (Board chair advocating for greater community understanding about how Muir Beach water works)
- Chair: Lynda Grose (design and sustainability professional/educator, interested in potential restrictions on Muir Beach water and creative long term strategies)

The committee has been meeting monthly since June 2016.

During the course of these meetings the committee educated itself on MB water, developed content and resources for MB water education and discussed best presentation options for MB residents.

(Note: separately, LG and PL met with Stinson Beach water district. LG spoke with Green Gulch water managers. LG, MH and JW met with NPS in lieu of Bill to discuss required monitoring of Redwood Creek).

Documents/resources read/analyzed

- Muir Beach Adaptive Management Plan, 2005. (document outlining the conditions under which Muir Beach water rights are granted)
- LAFCO 2014 report

- NPS Hydrology Study Report 2000 (NPS/NRWRD/NRTR-2000 (Hydrogeology of the Muir Beach Community Service District well site, Franks Valley Road, Redwood Creek, California, Golden Gate Recreation Area Study)
- MB water use volume reports over the last 2 years (anonymous, supplied by Shari)
- MB water expenses and revenue over the last 2 years (supplied by Bill)
- MB water lawyer's assessment of the Adaptive Management Plan (by LG, GF only)
- Proposition 218

Committee Assessment

- There are several entities that have interest in MB water use permit.
California Department of Fish and Wildlife (DFW),
California Department of Parks and recreation (DPR),
National Park Service (NPS),
State Water Resource Control Board (SWRCB),
Local Area FCO (LAFCO),
- MB is legally bound to meet the conditions laid out in the Adaptive Management Plan of 2005.
- MB is complying with volume of water diversion from Redwood Creek agreed upon in the AMP.
- More clarity on consistent compliance to AMP would be beneficial to the district.
- Salmonids in Redwood Creek are being adversely affected by warm temperatures and reduced dissolved oxygen levels in pools during dry the season.
- Central California Coast Coho Salmon are endangered and protected by the Endangered Species Act and the California Endangered Species Act.
- By some indicators LAFCO uses, projected Muir Beach water use may extend beyond recommended volumes.

-Identification of water leaks in the MB water system is limited especially with 2-monthly water billing cycle.

-Known water use reduction incentives, such as information per household and comparisons to other users in the district is lacking.

-MB water rate system generates income.

- Proposition 218 affects the ability of CA water districts to maintain water infrastructure and delivery systems as they respond to state mandated potable water use reductions of 25%.

Recommendations for Water Education Day

-History of MB water

MARY

-Water Quality

-Organizations we are responsible to + their roles

Shifting conditions of Redwood Creek

NPS

Water Use in the Community

GREG

Greg's water bill experience

MB water revenue and expenses

BILL and JAMIE

Some actions taken in local communities

JAMIE

Smart meters: pros and cons

GUESTS

(from Marilyn + Jamie)