



SAN MATEO
RESOURCE
CONSERVATION
DISTRICT

PPH Water Quality Assistance Update

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May 2023

Item F2

Overview

- San Mateo RCD
- TMDL Deliverables
- Denniston Creek Investigation
- Tenant Row Dye Testing
- Blue Weeks Signage
- First Flush Results
- Sharing the responsibility
- Next Steps and Budget





Water



Climate



Wildlife



Agriculture

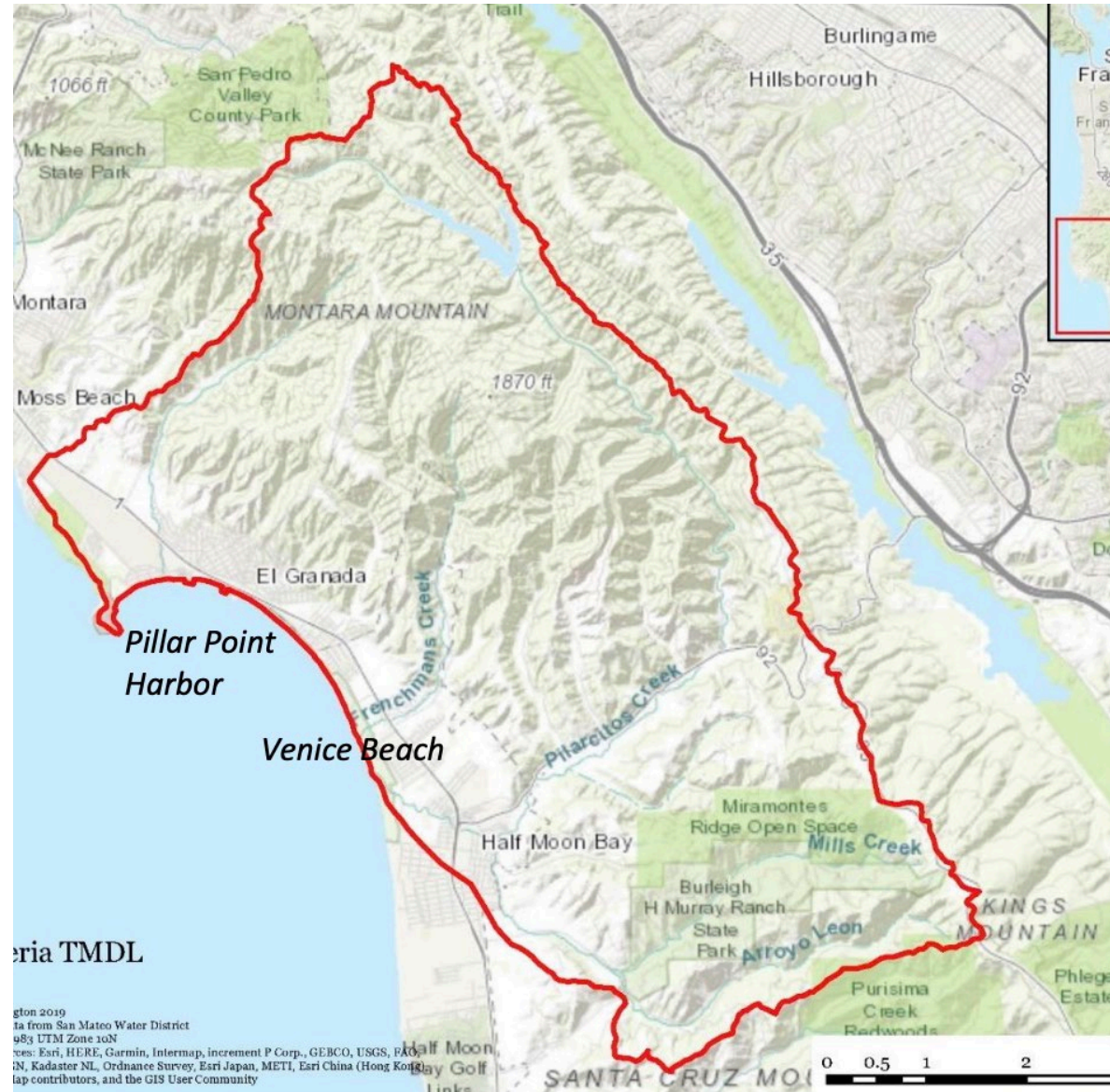


Fire and Forest Health



TMDL Deliverables

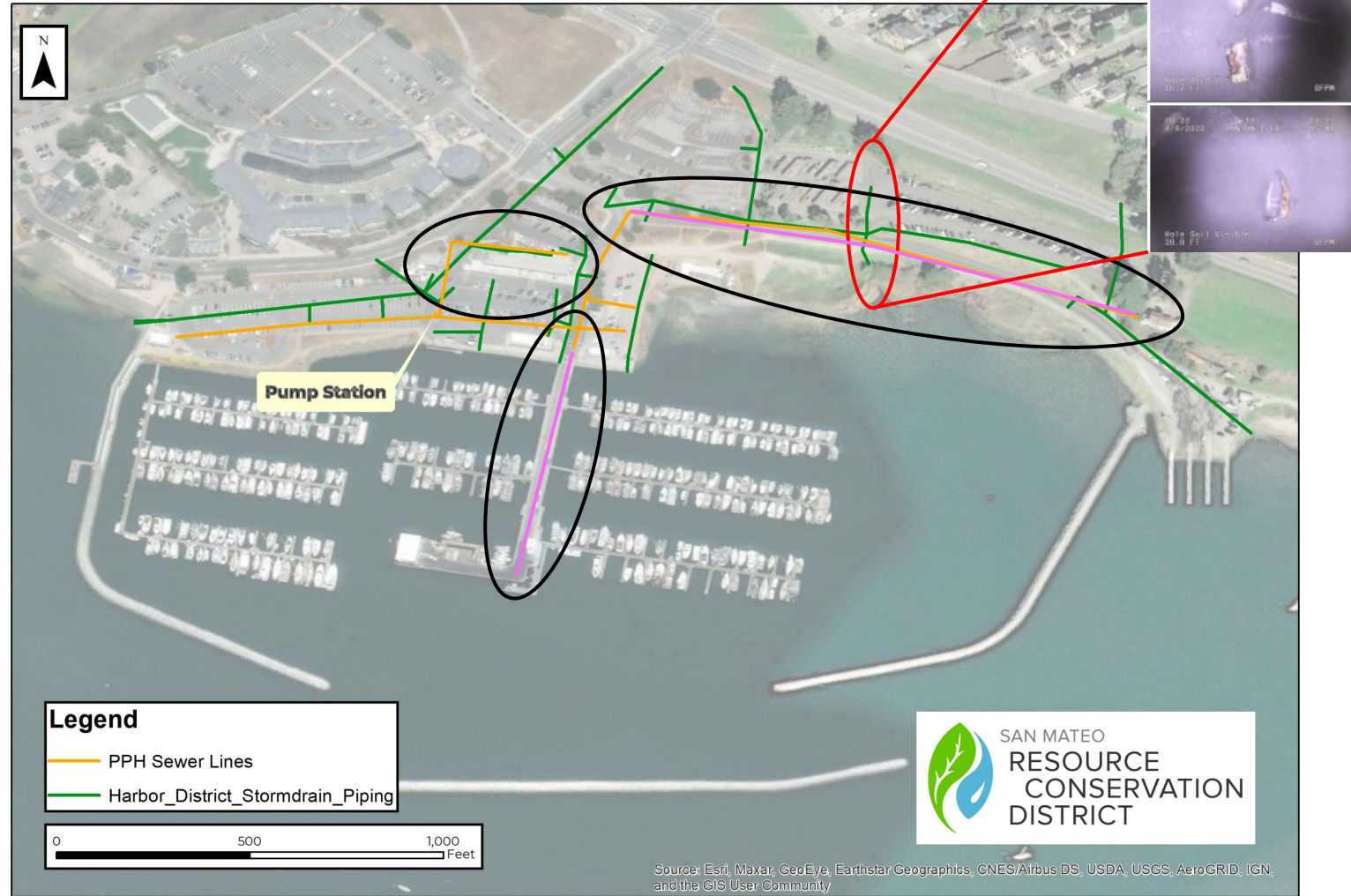
- Implementation Plan
- CCTV inspections (storm and sewer)
- Live aboard boat dye testing
- Tenant row dye testing
- Outreach and education



Sanitary Sewer System Inspections and Mapping



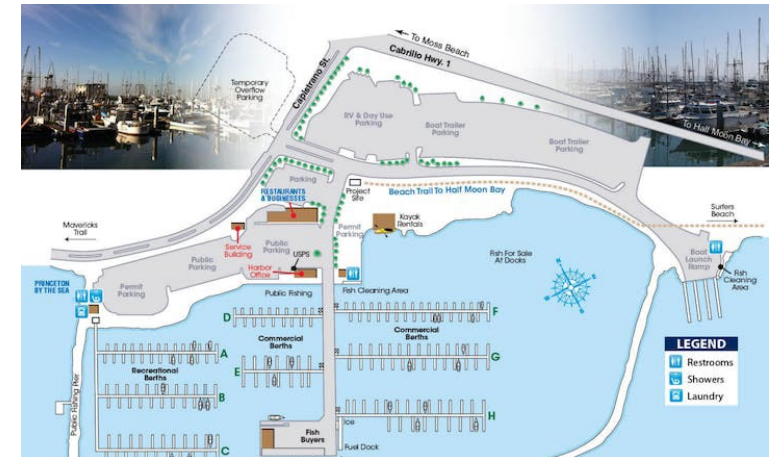
Stormwater and Sanitary Sewer Map w/ Next Steps



Live aboard dye testing

Take Aways:

- 2 dye testing days
- B and C dock
- No leaks detected
- Composting toilets may provide lower WQ risk
- RWQB MST testing conflicting data but confident in dye test results





Coastside Pet Waste Outreach Program

- Literature review
- Table local events
- Inspirational video

<https://www.youtube.com/watch?v=iZzIYy0J52k>

- Social media cleanups
- Partnering with cleanup orgs
- Social media posts
- Mailer

Denniston Creek Investigation

- Discharges to PPH
- Multiple calls from community
- Black murky water
- WQ Samples collected on 8/29/22.
- *E. coli* moderately high (547.5 MPN/100 mL)
- No human or dog MST detected



Tenant Row Dye Testing (4/18/2023)

- Dye tested all floor drains, toilets, and sinks in restaurant, bar, ice cream shop, and new bathroom floor drains
- No issues detected
- New floor drains behind new bathroom connected to sewer





WATER QUALITY WARNING SYSTEM

POTENTIAL HEALTH HAZARD

Bacteria levels at this beach are tested weekly. Flags indicate the most recent test results, levels of bacteria & associated health risk



Black Flag

Most recent water quality tests indicate swimming, wading, and contact with water and sand is not advised due to excessive bacteria.



Yellow Flag

Most recent water quality tests indicate increased health risk for water contact. Bacteria levels are above the State Health Standards limit.



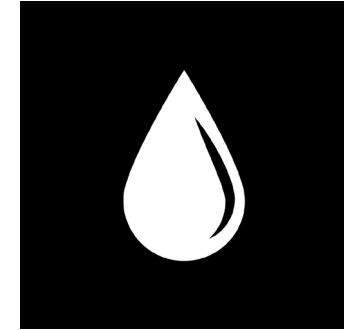
Blue Flag

Most recent water quality tests indicate low health risk for water contact. Bacteria levels are within State Health Standards limit.

For more information and weekly test results visit:
www.sanmateorcd.org/projects/water/wqsign/



Water quality can change at any time. Avoid water contact for at least 48 hrs after a storm





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First Flush 2022 Water Quality Results

COMMUNITY BASED



CITIZEN SCIENCE



VOLUNTEER EVENT





Sewer Authority Mid-Coastside
SAM



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What did we test?

Fecal Indicator Bacteria (FIB)

Nutrients (Nitrates and Orthophosphates)

Metals (Copper, Zinc, and Lead)

Total Suspended Solids

Pyrethroid Pesticides

Pyrethroid Pesticides

- Pyrethroids are synthetic pesticides, mimic pyrethrum found in chrysanthemums
- Detected Pendimethalin at only one site (not in PPH)



Pyrethroid Pesticide	Detected
Allethrin	ND
Bifenthrin	ND
Cifluthrin	ND
Cypermethrin	ND
Deltamethrin/Tralomethrin	ND
Dichloran	ND
Fenpropathrin (Danitol)	ND
Fenvalerate/Esfenvalerate	ND
L-Cyhalothrin	ND
Pendimethalin	Yes
Permethrin	ND
Prallethrin	ND
Sumithrin (Phenothrin)	ND
Tefluthrin	ND

First Flush 2022 PPH Findings

FIB: above recommended ranges at all sites

Nutrients:

- **Nitrates** above recommended ranges at Vassar
- **Orthophosphates:** above recommended ranges at Vassar, Denniston, El Granada, and Surfers South

Metals

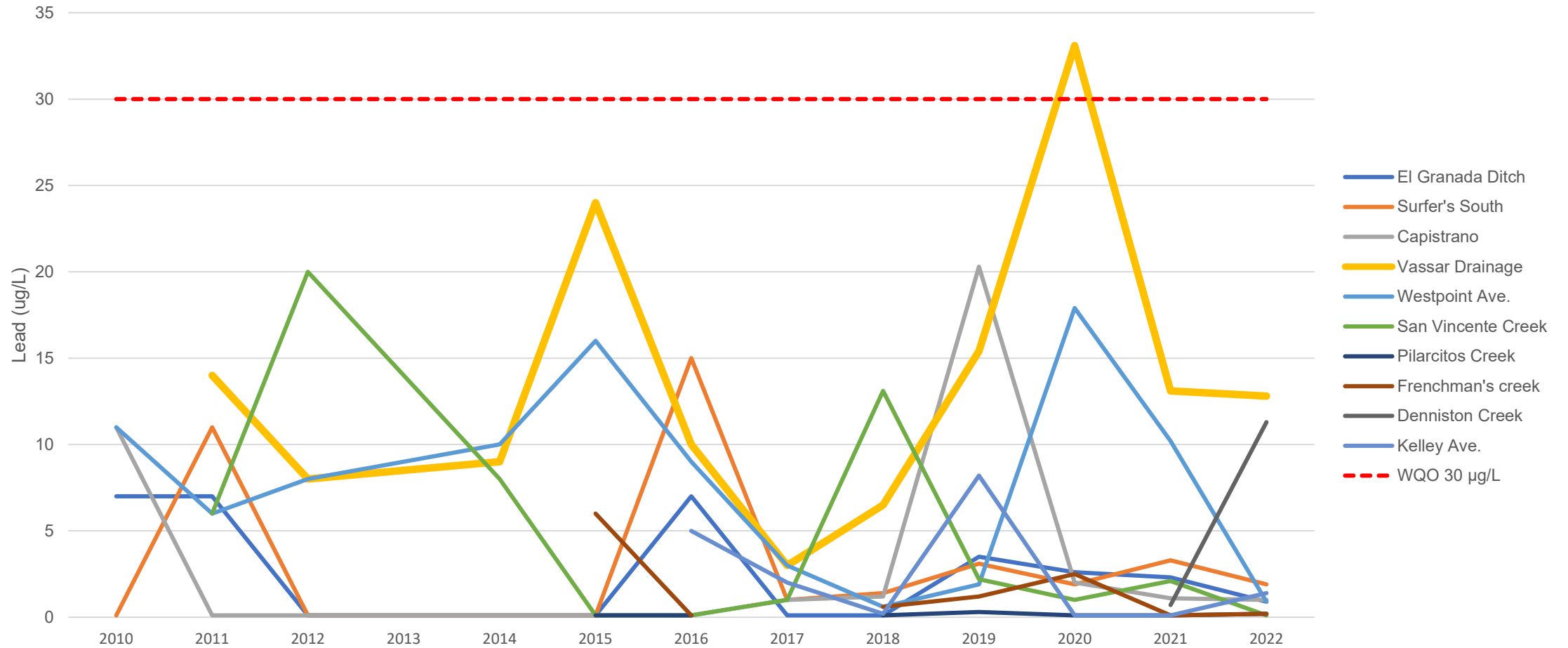
- **Copper** above recommended ranges at Vassar, Denniston, and Capistrano
- **Zinc** within recommended ranges at all sites
- **Lead** within recommended ranges at all sites

Total Suspended Solids within recommended ranges at all sites

Pyrethroid Pesticides non-detects at all sites



Historical Lead Concentrations



Sharing the Responsibility

>\$470,000 Leveraged since 2014

Action	Non-HD Investment Sources	Leveraged amounts
Inspected and repaired stormwater & sewer lines in priority areas (dye tested sewer lines on Capistrano Road)	County, GCSD	\$80,000
Cleaned all County stormwater lines in Capistrano watershed and in lower Denniston watershed (west of HWY 1)	County	\$90,000
Education, outreach, assistance to businesses & residences (watersheds, pet waste, best practices etc.)	NRCS, County, RCD, City of Half Moon Bay, City of Pacifica	\$140,000
Water quality monitoring	Surfrider, C/CAG (Water Pollution Prevention Program), GGNRA	>\$150,000
Develop upstream/watershed remediation measures and best management practices	NRCS, C/CAG, RCD	\$10,000

Next Steps and FY24 & FY25 Budget

- Inspect force mains, tenant row, and inspect/repair 1 stormwater line this summer (with current contract)
- First Flush (annual)
- Install signage and manage website updates, social media posts, and flag changes (weekly)
- TMDL assistance (ongoing)
- Respond to emerging issues, new investigations, and pursue grants to fund stormwater capture and other projects as opportunities arise (ongoing)
- Pet waste outreach and education (ongoing)

Suggested budget for FY24 & FY25: \$130,000



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Thank you!

