

MARIN
COUNTY
FLOOD CONTROL
& WATER CONSERVATION DISTRICT



Flood Control Zone 1
Regular Meeting
November 5, 2020



Zone 1 FY 2020-21 Budget Update

Revenue Estimate	Expenditure Estimate	Recommended Project Designation for Pump Stations	Projected Fund Ending Balance
\$4,155,500	\$8,268,177	\$2,500,000	\$422,528

FY 2022 Budget Process Preview:

- Baseline budgets are intended to be relatively consistent year to year.
- Major project expenditures will require separate actions from the AB and District BOS to adjust the budget as needed.



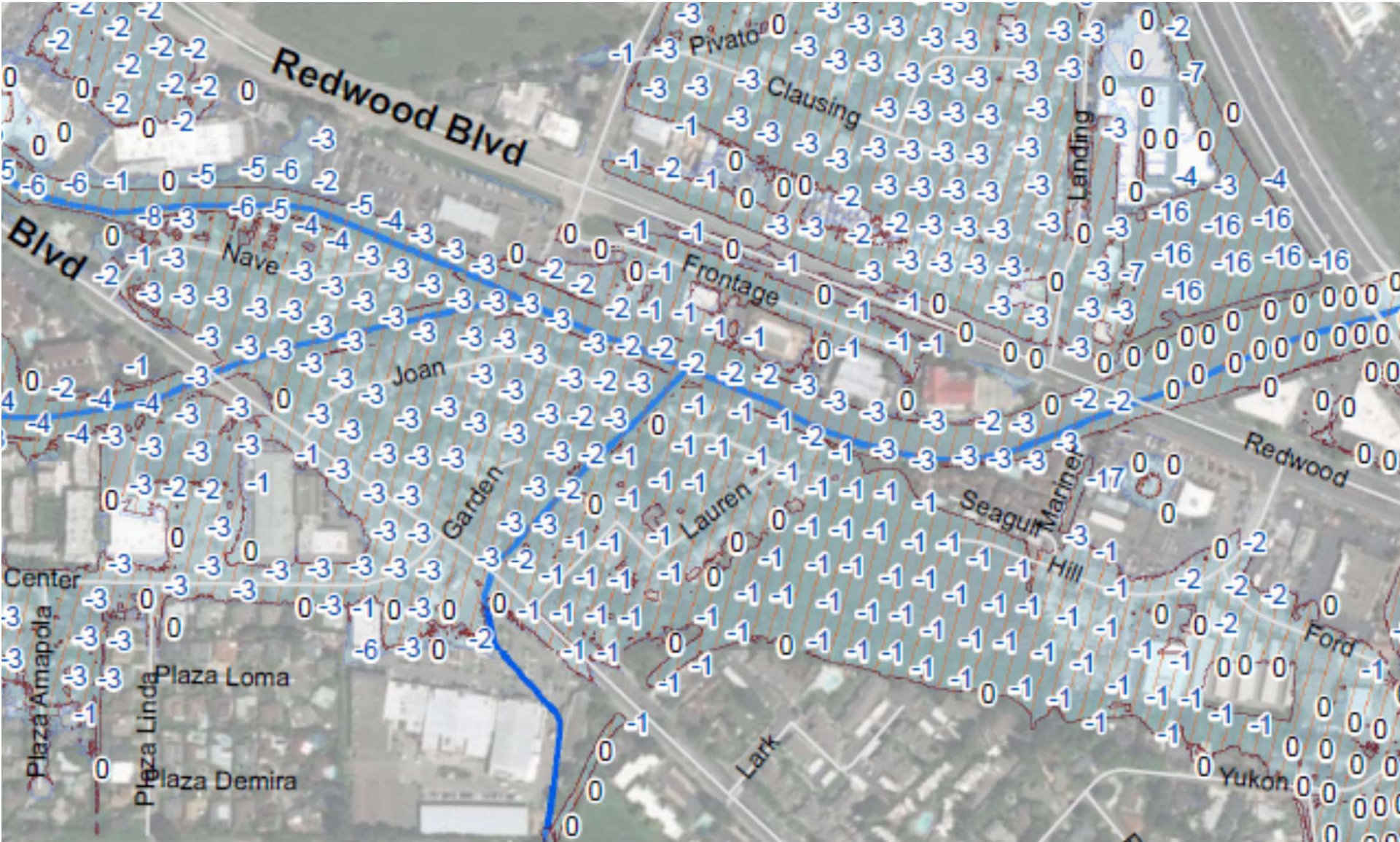
Zone 1-2020 Project Update

Project	Construction Status	Active Contract Amount
Simmons Slough (Pump Station and) Water Management	August 2020 through 2021 (TBD)	\$2,892,067.00 (\$3,32,5877 with 15% contingency), with \$1.4M to be reimbursed through grant.
Novato Sediment Removal and Wetland Enhancement	Completed October 2020	\$1,588,754
Deer Island Basin Complex Tidal Restoration Project	PS&E being prepared for restoring the west bank	Design contract \$738,540 , with \$630,000 to be reimbursed through grant. No construction funds identified.
Lynwood Pump Station	On Hold	N/A

Full vs. Partial Sediment Removal



Full vs. No Sediment Removal



Evaluating Benefits of Sediment Removal

	Nave Ct	Joan Ave	Garden Ct	Lauren Ave
Existing 50-yr depth in finished floor*	2 feet	2.5 feet	3 feet	3 feet
Damage**	\$58k / house	\$65k / house	\$73k / house	\$73k / house
Depth reduction from full dredge	3-6 inches	3 inches	3 inches	1 inch
Cost of full dredge	~\$1.6 million (estimate based on 2020 bids)			
Depth reduction from partial dredge	2-5 inches	2 inches	2 inches	1 inch
Cost of partial dredge	~\$800k (estimate based on 2020 bids)			

Note: this preliminary analysis needs to be refined through further study.

*based on averages derived from a District 2011 finished floor elevation survey

**based on USACE Depth-Damage function Table 2 for \$100k structure with \$50k contents at this link:

<https://apps.dtic.mil/dtic/tr/fulltext/u2/a255462.pdf>, adjusted with CPI Inflation

Calculator from May 1992 to September 2020:

https://www.bls.gov/data/inflation_calculator.htm

Potential 2022 Work Plan

- Baccaglio Basin and Scottsdale Pond Flood Improvement Study – recommendations:
 - Put development of Lynwood Pump Station reconstruction on hold to evaluate alternatives
 - Refine cost and scope of study for review at February meeting
- Rush Creek Watershed Study – recommendations:
 - Apply for SB1 funding in November 2020
 - Proceed with Zone 1 funds in FY 2022 if grant not awarded

Next Meeting February 4, 2021

- Review Zone 1 Baseline Budget for FY 2022
- Update on Deer Island Basin Complex Restoration Project

Thank You!

<http://www.marinwatersheds.org/>



- Flood Preparedness resources
- Track rainfall, creek and tidal elevations in real time
- Project Updates
- Flood Zone advisory board meeting materials
- Creek Stewardship resources
- Floodinginquiry@marincounty.org