

FLOOD ZONE 3 ADVISORY BOARD MEETING
APRIL 11, 2023

Staff Report

Item 1. Approval of Meeting Minutes: April 13, 2022 (Revised) and Jan 10, 2023

Review April 13, 2022 minutes at this link: <https://marinflooddistrict.org/meetings/zone-3-advisory-board-meeting-april-13-2022/>

Review January 10, 2023 minutes at this link:

<https://marinflooddistrict.org/meetings/zone-3-advisory-board-meeting-january-10-2023/>

Select the “minutes” tab.

Recommended Action: *Approve draft minutes of April 13, 2022 (Revised) and January 10, 2023*

Item 2. Open Time for Items Not on the Agenda

Comments will be heard for items not on the agenda (limited to three minutes per speaker).

Item 3. Engineer’s Report

A. Marin City Stormwater Plan

The following plan website was updated to include answers to frequently asked questions and a link to the public news release update dated March 21, 2023:

<https://marinflooddistrict.org/marin-city-stormwater-plan/>

The first Task Force meeting was held April 3, 2023 and initial feedback from the ten Community Task Force members in attendance included:

- Include more Marin City residents for future Task Force meetings
- Provide funding opportunities/outlook for future flood risk reduction projects following completion of the plan
- Provide a more detailed project timeline
- Provide a Task Force Roster
- Host the community meetings at the School, Senior Center, or as pop-up events within community neighborhood areas that are identified to be within/near flood-prone areas
- Consider hillside drainage opportunities that slow flows and are less vulnerable to debris accumulation or obstruction (i.e. can concrete-lined ditches be avoided or converted to alternatives)

The next event is the Community Meeting to be scheduled in early June 2023 with meeting details to be provided on the webpage and through other notification channels:

<https://marinflooddistrict.org/marin-city-stormwater-plan-meetings/>

Please see following page for future Marin City Stormwater Task Force and Community meetings to be scheduled and list of organizations invited to the Task Force.

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Meeting Schedule	Meeting Event	Description
April 3, 2023 (Completed)	Task Force Meeting #1	Introductions, Reviewed Existing Drainage/Flood Issue Map
Early June 2023	Community Meeting #1	Review existing conditions evaluation w/ optional site walk
August 2023	Task Force Meeting #2	Potential upper watershed drainage improvements
October 2023	Task Force Meeting #3	Potential lower watershed flood mitigation measures
January 2024	Community Meeting #2	Present potential drainage improvements and flood mitigation measures
February 2024	Task Force Meeting #4	Prioritization of potential measures
April 2024	Task Force Meeting #5	Draft Executive Summary
June 2024	Community Meeting #3	Present recommended measures and potential funding sources

Marin City Community Task Force Invitees	Organization Type (Nonprofit/business)
Marin City Community Development Corporation	Nonprofit
Floating Homes Association	Association
Hannah Project	Nonprofit
Historic Golden Gate Village	Association
Hope for Housing	Nonprofit
Isoji Building Community from Within*	Nonprofit
Marin City Climate Resilience & Health Justice (MCCR&HJ)	Nonprofit
Marin City Community Services District	Special district
Marin City People's Plan	Nonprofit
Marin Gateway Shopping Center/ Gerrity Group.com	Business Owner of Pond/Shopping Center
Marin Housing Authority	Local Government Agency
MC Arts Gallery	Local Business
One Tam - National, State, and Marin County Parks, Parks Conservancy, and Marin Water	Marin County Public Agency Partnership
Performing Stars	Nonprofit
Sausalito Marin City School District	Special District
Tribal Organizations	Tribal Organization
Transportation Agency, State of California (Caltrans)	State Government Agency

*Through additional ISOJI monthly meetings, will obtain and relay input from: Ministerial Alliance and Bridge the Gap

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B. Marin City Stormwater Pond Infrastructure Improvements (Written Update Only)

See April and October 2022, and January 2023 advisory board meeting staff reports for background on this project. The scope of work of this FEMA grant project has changed significantly since 2020 and currently consists of an estimated \$10 million construction project for a proposed permanent stormwater pump station and drainage pipe upgrades. Though twice as expensive, the benefits of the project as currently scoped are much better for Marin City than the original grant proposal. Though the current scope of work has not officially been approved by FEMA yet, approval and an extension of the design timeline to March 2024 is expected over the next few months.

The Marin City pond is privately-owned, and the Flood District is not a regulatory agency and can only work with willing landowners. Given the delays in access, the costs for the proposed flood improvements are preliminary. Discussions regarding pond ownership and maintenance are happening at a high level at the County. The District and County have a legal and fiscal duty to fully understand any liabilities when using public funds. The District received permission from Gerrity to conduct a wetlands assessment, topographic survey and a geotechnical boring for the permanent pump station project. The wetlands work was conducted in January 2023 but the geotechnical boring has been delayed by the weather until the area dries out.

C. Marin City Donahue Portable Pump Station (Written Update Only)

The Board of Supervisors of the Marin County Flood Control District on March 21, 2023 approved a \$236,296 professional services agreement using Flood Zone 3 funds for BKF Engineers to Design, Support Permitting and Prepare Plans and Specifications for Construction of a Portable Pumping Station at Donahue Street, adjacent to the southbound Hwy 101 offramp. CEQA and permitting will be led by Caltrans with District support since the pump station and pipeline is on Caltrans property except for the final 45 feet which is on private property. It is estimated that the design work will be completed by Summer 2023 with the goal to construct the system by the end of the 2023-2024 rainy season (i.e. by May 2024). Note that this schedule is dependent on permitting issues associated with the pipeline route and the availability of pumps and pipeline equipment as well as right-of-way approval from the private property owner.

Costs for construction and three years of operation are expected to be paid for through State funding from an agreement with Transportation Authority of Marin and will be the subject of a future Board of Supervisor's action.

D. Supporting Enhanced Storm Drain Inspection and Cleaning in Zone 3

Flood Zone 3 is proceeding with the pilot project which consist of supporting the County Public Works Road Maintenance division with enhanced inspection and cleaning of the street drainage system in Marin City and Tamalpais Valley. On page 5 is a map of the storm drain catch basins and manholes currently in the pilot program. The Road inspector has identified 11 specific storm drains in these areas to clean. Due to limited availability of equipment and staff in the Road Maintenance division, the District is planning to contract this work out in 2023. With the Major Federal Disaster Declarations in January and March the District is also pursuing

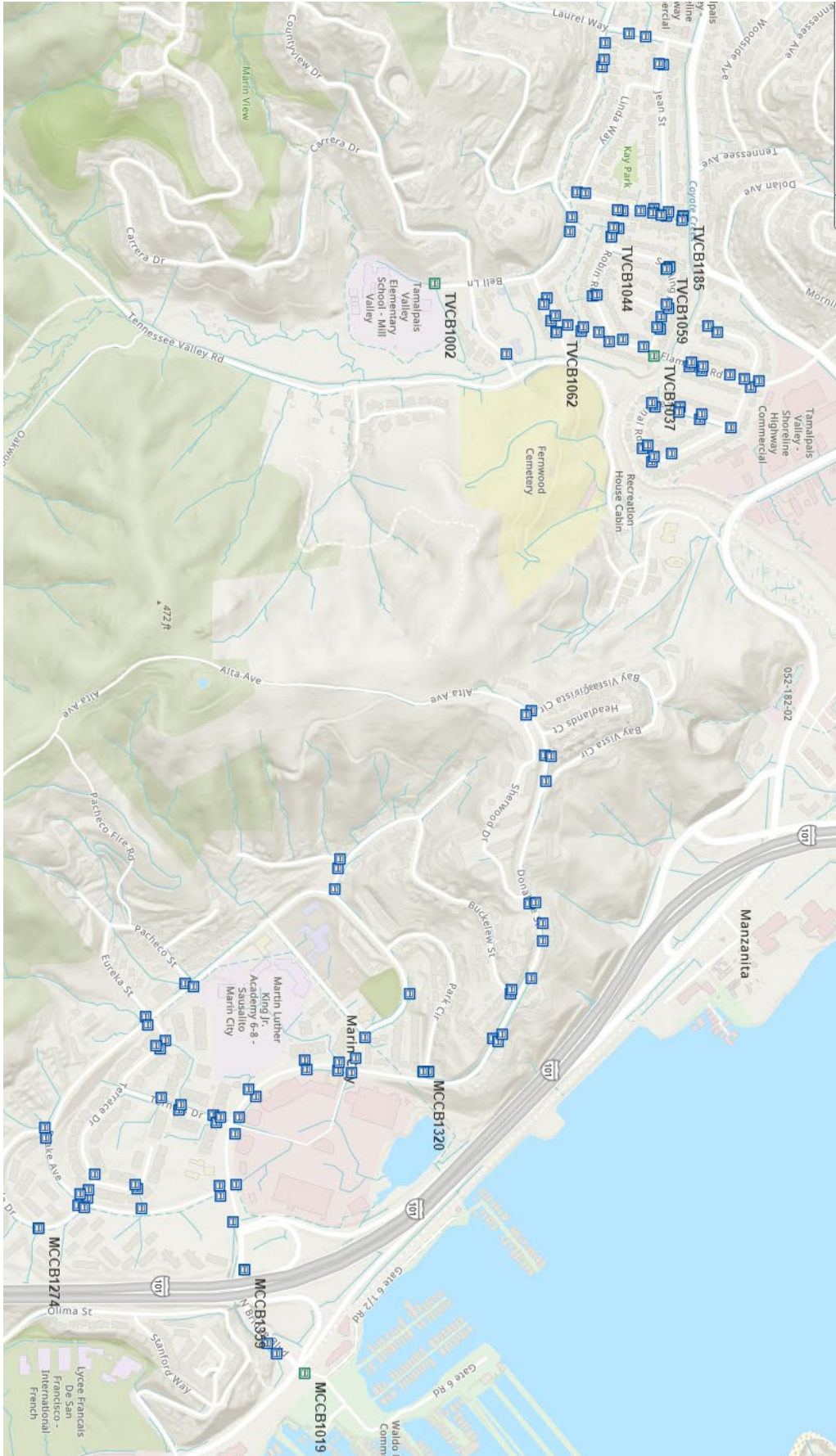
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reimbursement through FEMA for disaster response and recovery for this cleaning work.

Between January and March of 2022, the Road Maintenance division removed over 311 cubic yards of material from priority storm drains in their right-of-way in Marin City. In April 2021, 153 cubic yards was removed in Marin City and 18 cubic yards in Tam Valley. In April 2019, 30 cubic yards was removed in Marin City.

As all of the storm drains in Marin City flow through the shopping center property, maintenance verification inspections are randomly conducted by the County's Stormwater division. The shopping center indicated that their storm drains are on an annual cleaning schedule. In October 2021 the pipes were verified to have been cleaned except for one manhole in the parking lot that the shopping center said had until recently been obstructed from access by a shopping cart corral, and one at a pipe on the north side of the pond that may not actually be on the shopping center property. Ownership of that pipe will be determined during boundary surveys associated with District projects underway.

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E. Tamalpais Valley Neighborhood Group

Several Tamalpais Valley neighborhood residents have asked District staff to place on this agenda a discussion of how they can support the District in identifying drainage and tidal issues. Nobody should go onto creek banks, lift storm drain manholes or grates, or do anything that seems risky, but if someone in the neighborhood happens to notice an issue we have a reporting application on the Public Works website that they can use:

<https://publicworks.marincounty.org/#/city/report>. District staff could work with the Tam Valley Neighborhood Response Group (<https://nrgmillvalley.org/mv-nrgs/tam-valley-nrg-network/>) to distribute this link with information about safety.

People in the Tam Valley neighborhood are already very good about reporting suspected tide gate and drainage issues to staff. There are many causes of delay in responding to the issues such as: lack of availability of staff and equipment, environmental permitting restrictions, finding an opportunity when the water level is low enough, going through the long administrative process in bidding and setting up public contracts, and sourcing materials with the continued supply chain issues.

For reference, here is a link to the article that staff mentioned about San Francisco's program at the January 2023 advisory board meeting:

<https://www.sfchronicle.com/sf/article/sewer-drain-flood-volunteers-17698009.php>

F. Crest Marin Pump Station Condition Assessment

The Crest Marin Pump Station was constructed in 1978 and is reaching the end of its expected useful life. Given the increasing maintenance needs and costs at this station, staff solicited proposals from consultants to conduct an assessment of the Crest Marin Pump Station. The study will recommend improvements and categorize them into priority levels to help staff and the advisory board with planning and budgeting. A contract was awarded by the Board of Supervisors to Schaaf & Wheeler in the amount of \$162,312 at their January 24 meeting. A report on this work will be provided to the Flood Zone 3 advisory board in the summer as well as recommendations for a design scope for pump station rehabilitation and/or upgrades.

G. Cardinal Road Levee Seepage Mitigation

Increased seepage through a District levee on Coyote Creek was reported by residents on Cardinal Road in 2022. Since 2014 the District has been working to mitigate for the impacts that rodent burrows can have on levee seepage. Initial mitigation measures included attempts to trap rodents and grouting of rodent burrows on an annual basis. Beginning in 2020, the District discontinued trapping efforts and began grouting rodent burrows twice annually. Rodent trapping efforts were discontinued due to limited success and concerns regarding potential damage to the levee caused by installation of traps. Grouting was increased to twice annually due to high quantity and rate of new burrows appearing.

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In the fall of 2022, the District conducted a site walk with a geotechnical engineer, only a few weeks after the second phase of rodent burrow grouting was completed. Evidence of grout was observed through approximately 90 to 95% of the animal burrows indicating additional burrows developed since the most recent round of levee grouting. Many filled and unfilled rodent holes can be observed at the levee crest, on the side slopes, and the land-side toe throughout this section of levee.



Levee adjacent to Flamingo Road

The geotechnical engineer provided a memorandum evaluating different alternatives for the District to consider. For much of the segment of levee along Cardinal Road, there is not enough room on the landside of the levee to implement mitigation measures. Their recommendation is to implement a sheetpile wall on the waterside of the levee. Preliminary estimated costs to implement this are \$3.25M. Advisory board can consider at this stage proceeding with a request for qualifications and proposals (RFQ/P) for design and permitting of this project. A budget of 10% of the overall cost estimate is recommended, and if the highest qualified firm's cost proposal is higher than \$325,000 we will return to the advisory board with a revised estimate.

Recommended Action: Recommend the District Board of Supervisors award a design and permitting contract for levee seepage mitigation with a budget no more than \$325,000.

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Item 4. Other Written Updates (non-District efforts of interest)

A. Green Infrastructure Study in Marin County Roads

In 2022 the County Stormwater Division hired Siegfried Engineering to perform a Countywide study of the opportunities and impacts of green stormwater infrastructure at appropriate locations in public county right of way. The information generated from the study will inform the development of a Green Stormwater Infrastructure Plan over the next 5 years to meet our Phase II National Pollution Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) discharge permit requirements. Please check the Marin County Stormwater Pollution Prevention program website for future updates and information:

<https://mcstoppp.org/>

B. Marin LAFCo Golden Gate Corridor Study

LAFCo is a state authorized commission that works at the local level which has many responsibilities, one of which is the review of certain local agencies. LAFCo conducts these reviews in documents called Municipal Service Reviews (MSR). They have completed the MSR process for the City of Mill Valley, City of Sausalito, Marin City CSD, Tamalpais CSD, Sausalito-Marín City Sanitary District, Southern Marin Fire Protection District, CSA 14 (Homestead), and County Flood Zone 3. During the MSR process they have been talking with local leaders about how things are working with these agencies. The final MSR for these agencies is on the agenda for adoption at LAFCo's April 6, 2023 Board meeting and the "Golden Gate Corridor Study" is now available at www.marinlafco.org. Questions and comments can be directed to staff@marinlafco.org.

C. Marin County Multi-Jurisdictional Local Hazard Mitigation Plan

The various communities in Marin County are working together to update Marin County's Multi-jurisdictional Hazard Mitigation Plan. As part of this community planning process, the County is asking for community input via this online survey at <https://www.surveymonkey.com/r/MarincountyMJHMP> to ensure that the proposed mitigation projects and vulnerabilities have alignment with the community's existing perceptions and expectations. Additionally, Town Hall Meetings will be held on April 13 at 6pm in the Marin County Board of Supervisors Chambers and April 29 at 10am at the Marin County Health and Wellness Center Rooms 109/110. See this press release for additional information and Zoom links to these Town Hall meetings:

<https://www.marincounty.org/main/county-press-releases/press-releases/2023/fire-hazard-mit-survey-040423>

Item 5. Annual and Preventive Maintenance Work Program (Written Update Only)

Below is an update on facility maintenance activities.

A. Pump Stations

- i. *Regular Maintenance*: Preventive maintenance for all five pump stations is completed every summer and includes the inspection, testing, and as needed replacement of electrical and mechanical components. All pump station back-up generators have been run-tested and the fuel checked and maintained as needed.

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Individual pumps and motors are also scheduled for major maintenance on a six-year interval at each of the zone's pump stations. Major preventive maintenance is scheduled this summer for the #2 pump at Cardinal Pump Station. Based on historical expenses we anticipate the cost will be approximately \$30,000, which is included in the baseline budget for Zone 3.

- ii. *Repair Needs:* The gearhead for the #3 pump (back-up diesel engine driven) at Crest Marin Pump Station failed during the January storms. It was removed, overhauled, and repaired for a total cost of about \$20,000, utilizing baseline budget.

B. Vegetation and Sediment Removal

Vegetation overhanging the concrete channel of Coyote Creek is removed as needed to facilitate inspection of the concrete walls and tide gates. Sediment removal needs for this summer are being evaluated in April. The City of Mill Valley also conducts maintenance of their stormwater facilities and drainage channels each year with funding support through a cooperative agreement with Flood Zone 3.

C. Levee Maintenance

Two phases of rodent control are anticipated to be completed in the earthen levees again this year as there are many rodent burrows needing to be filled. Conditions of the levee are continually inspected throughout the winter during storms, and/or high tides when seepage is most evident. In March the U.S. Army Corps of Engineers (USACE) completed one of their periodic inspections of the levee and concrete channel system. The District is working to provide additional information to USACE so they can finalize their inspection report.

Item 6. Proposed Zone 3 Fiscal Year 2023-2024 Baseline Budget

The County Administrator's Office requested that the zones recommend a baseline budget for the beginning of each fiscal year that does not include major project expenses. 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. As usual, the approved budget may always be adjusted as necessary as priorities and cost estimates for projects and studies planned for this coming fiscal year are more clearly identified. Staff will review the proposed Flood Zone 3 Baseline Budget for FY 2023-2024 at the meeting:

<https://marinflooddistrict.org/documents/flood-zone-3-proposed-baseline-budget-2023-2024/>

Recommended Action: Recommend the District Board of Supervisors adopt the baseline budget.

Item 7. Schedule of Next Meetings

Advisory Board adopted a schedule of advisory board meetings on the second Tuesday of the months of January, April, July, and October. Special meetings can be called if needed, and regular meetings may be canceled if there is no business need.