

## **Marin County 2016 Repetitive Loss Analysis Summary**

The original Repetitive Loss Area Analysis was prepared by Stetson Engineers, Inc. in March 2015. It was submitted to the Marin County Board of Supervisors on Aug 11, 2015 and adopted that same day, Resolution No 2015-101. A post card was mailed to those properties in the Repetitive Loss Areas notifying them that the RLA Analysis had been prepared and a link was given to the Marin County website. Furthermore, recipients were encouraged to contact the Land Development Division with further inquiries.

In June 2016 a survey was mailed to the 1507 property owners in the Repetitive Loss Areas. The survey asked property owners to identify any flood mitigation techniques they had employed in the past year and what techniques they planned to employ in the future. The Land Development Division received 336 responses which have been incorporated into this report.

The Flood Control Division is responsible for flood control mitigation projects. The report describes the current projects, the disposition of each project as well as funding sources.

The Repetitive Loss Area Analysis Report is posted on the County website at <http://www.marincounty.org/depts/pw/divisions/land-use/fema-flood-information/local-resources>. Notices will be sent out in the annual brochure in October notifying the public (including the repetitive loss property owners) of the availability of the RLAA report on the County website. Repetitive Loss property owners are encouraged to forward this information to their tenants.

# Marin County 2016 Repetitive Loss Analysis Report

## Recommendations from Repetitive Loss Area Analysis dated March 2015 Action items for yearly report

### For the County of Marin

- Prepare an annual outreach mailing that encourages property owners in the RL areas to pursue a mitigation measure.

Action Taken: Land Development mailed 1507 surveys to homeowners in the 19 Repetitive Loss Areas on 6.2.16.

- Provide information to assist interested property owners in applying for a mitigation grant.

Action Taken: Flood Control & Water Conservation District (FC) provided information to Repetitive Loss Area property owners about available 2016 HMGP funding on 4.12.16. Included in the funding package was a Frequently Asked Questions flyer and excerpts from the FEMA Hazard Mitigation Assistance guidance document.

- Provide information that encourages homeowners to frequently clear their ditches of debris to ensure open flow for stormwater in accordance with all regulatory permits.

Action Taken: Land Development Division mails a yearly brochure to homeowners and residents in the Repetitive Loss Area. The brochures encourage people in the SFHA to clear debris from drainage conveyances as part of their winter preparation checklist.

- In the existing flood zones, develop flood control projects for review and approval by the County and Flood Control & Water Conservation District (FC). Where appropriate, seek out funding for projects.

Action Taken:

- The County approved Ross Valley Flood Control District with a 3% property tax for flood protection.
- The Marin Flood Control and Water Conservation District was awarded \$1.4 million to dredge three Novato creeks.
- Coyote Creek Middle Reach Sediment Removal tentatively scheduled for 2016 and 2017. This project is funded entirely by Flood Control Zone 3.
- Former Nursery Site Detention Basin on Fairfax Creek tentatively scheduled to take place between 2016 and 2021. Funding will initially come from Flood Control Zone 9 funds with the hope that grant funding opportunities will become available in the 2018/2019 cycle.
- Novato Creek Sediment Removal project will encompass two project cycles; the first cycle in 2016/2017, and the second beginning in 2020. This project will be funded entirely by Flood Control Zone 1.
- The Deer Park Detention Basin project will add infrastructure to existing lay field to allow for use as a storm water detention basin. The objective is to reduce peak flood flow in San Anselmo Creek and provide flood protection during the 100-year flood event and is scheduled for 2016 - 2021. Flood Control Zone 9 will

contribute 30% of the funding. The balance to be obtained through grant funding. No grant fund opportunities have been identified to date.

- Lefty Gomez Field Dual Use Detention Basin will add infrastructure to an existing play field to allow for a storm water detention basin. The Objective is to reduce the peak flood flow in Fairfax Creek during the 100-year flood event. Flood Control Zone 9 will contribute 30% of the funding. The balance to be obtained through grant funding. No grant fund opportunities have been identified to date.
- Loma Alta Detention Basin to add infrastructure to existing open space preserve to allow for use as a storm water detention basin. The objective is to reduce the peak flood flow in Fairfax Creek during the 100-year flood event. Flood Control Zone 9 will contribute 30% of the funding. The balance to be obtained through grant funding. No grant fund opportunities have been identified to date.
- Phoenix Lake IRWM Retrofit to retrofit existing reservoir to add flood control capability. The objective is to reduce peak flood flow in Corte Madera Creek. Flood Control Zone 9 will contribute approximately 61% of the funding. The balance will be funded by the DWR grant agreement.
- San Anselmo Flood protection Project to add infrastructure upstream or within the Town of San Anselmo to meet the goals of the DWR grant for Memorial Park Detention Basin Project. The objective is to reduce peak flood flow in San Anselmo Creek to provide flood protection during the 100-year flood event. Flood Control Zone 9 will contribute 30% of the funding. The balance to be obtained through other sources.
- Corte Madera Creek Flood Risk Management Project for the design of improvements along three sections Corte Madera Creek. The objective is to increase flood capacity of the creek to convey the 100-year flood without overbank flow. Flood Control Zone 9 will contribute funds in the 2016-2017 and 2017-2018 fiscal years. The balance will be provided by USACE and other federal funds.

- Complete the CRS application process and improve the County's CRS classification.  
Action Taken: (1) The County completed the CRS application process and joined the CRS program on May 1, 2016 with Class 7. (2) The County is presently working on improving the CRS score by fine-tuning responses and planning to apply for modification in 2017.

- Adopt this Area Analysis according to the process detailed in the CRS Coordinator's Manual.

Action Taken: The Repetitive Loss Area Analysis was adopted by the Board of Supervisors on August 11, 2015.

- Conduct an outreach program that provides an opportunity for property owners to request more detailed explanation of the RLAA report findings, identify hazard mitigation measures that are currently undertaken by the County, and hazard mitigation measures that can be undertaken by property owners.

Action Taken:

- Mailed post cards to Repetitive Loss Area homeowners announcing the completion of the Repetitive Loss Area Analysis, letting them know where they could find the Analysis on the County website, and providing contact information for those who wanted to request a phone or in-person meeting to review the findings.
- The County mailed RLAA survey to 1507 Repetitive Loss Area homeowners on 6.2.16 which asked what hazard mitigation measures they had taken in the past year and what hazard mitigation measures they planned to take in the future.

**b. For the residents of the study area**

- Contact the County for more information about possible funding opportunities.  
Action Taken: Flood Control & Water Conservation District (FC) provided information to Repetitive Loss Area property owners about available 2016 HMGP funding. A total of 89 homeowners responded with an interest in participating in the HMGP funding opportunity to raise their homes. The County has a total of \$3 million to work with and is awaiting notification from FEMA as to which properties will be awarded funding.

- Review the alternative mitigation measures discussed in this analysis and implement those that are most appropriate for their situation.

Action Taken: The County mailed 1507 RLAA survey to Repetitive Loss Area homeowners on 6.2.16 which asked what hazard mitigation measures they had taken in the past year and what hazard mitigation measures they planned to take in the future. A total of 336 surveys were received. Of that total, 222 of the surveys indicated that they have taken mitigation measures in the past year and plan to take mitigation measures in the future.

- Purchase and maintain a flood insurance policy on the home and its contents.

Action Taken: The County mailed 1507 RLAA surveys to Repetitive Loss Area homeowners on June 2, 2016 which asked if they had purchased flood insurance in the past year or planned to purchase flood insurance in the future. Of that total, 258 responded that they had purchased flood insurance in the past and 267 responded that they plan to purchase flood insurance in the future.

This Repetitive Loss Report is posted on the County website under the heading FEMA Flood Information and CRS Program, Local Resources (<http://maringovstg/depts/pw/divisions/land-use/fema-flood-information/local-resources>).