

FLOOD CONTROL ZONE 5 ADVISORY BOARD

JUNE 26, 2018

UPDATE

Item 1. Zone Staffing Changes

Former Zone Engineer Jon Liang accepted a new assignment with the Engineering Division of the Marin County Department of Public Works last summer. While he still works for the County, he is no longer available to help in Zone 5. Recruitment of a replacement Zone Coordinator has recently been completed and the new Zone contact is Gerhard Epke, Senior Program Coordinator. Gerhard is a Certified Floodplain Manager with a master's degree in hydrologic sciences from UC Davis. Following his graduate research, he was a project manager for the Town of San Anselmo before working for the District. Gerhard can be contacted at gepke@marincounty.org or 415-473-6562.

Item 2. Easkoot Creek Maintenance Update

A late season storm on April 6, 2018 delivered a volume of sediment that exceeded the design capacity of the Eastkoot sediment trap. This volume of sediment filled up the channel and floodplain, and water and sediment flowed out of the creek and onto the Stinson Beach parking lot. The National Park Service property experienced extensive damage due to this "washout." In addition, water entered a portion of the Creekside Café building. During the week following the flood of the parking lot in Stinson Beach, District staff and the Conservation Corps North Bay worked with National Park Service staff to redirect the creek flow back onto its normal course by placing a sandbag berm on the bank. Two much smaller storms occurred subsequent to the April 6th storms and the sandbag berm successfully contained the creek. The cost for this emergency work does not exceed Zone 5's budget for creek maintenance this fiscal year.

The sandbag berm will remain until September when the normal annual sediment removal is scheduled. This year sediment removal will include not only the sediment trap, but also at the vicinity of the Arenal bridge where sediment also filled the channel. Below is a status of the permits covering this work:

Agency	Permit Type	Status
Regional Water Quality Control Board (RWQCB)	Waste Discharge Requirements and Water Quality Certification	In the second year of a 5-year programmatic permit. In May notified RWQCB of plans to remove sediment from sediment trap adjacent to Parkside Café and near Arenal bridge.
C.A. Department of Fish & Wildlife (DFW)	Routine Maintenance Permit	In the second year of a 5-year permit. In May notified DFW of plans to remove sediment from sediment trap adjacent to Parkside Café and near Arenal bridge.
U.S. Army Corps of Engineers (USACE)	Nationwide Permit	USACE is currently consulting with National Marine Fisheries for an updated Biological Opinion. A permit is expected before September.
National Park Service (NPS)	Special Use Permit	As property owner, a special use permit is needed from NPS in order to do work in the sediment trap adjacent to the Parkside Café. The current 5-year permit expires September 30, 2018 and inquiries with NPS regarding renewal have begun.

Marin County Flood Control and Water Conservation District

Below are photos and status of Eastkoot Creek prior to and after the April storm:



Date: April 3, 2018

Sediment trap adjacent to Parkside Café.

Inspection by District Staff before the storm.

Sedimentation in Eastkoot Creek was negligible at that time.



Date: April 9, 2018

Inspection by District Staff after the storm.

District will remove sediment from the channel in September when potential impacts to young vulnerable steelhead are minimized.

Consultation with National Marine Fisheries regarding protecting fish is currently underway.

Marin County Flood Control and Water Conservation District



Date: April 9, 2018

Creek was mostly running through the parking lot instead of through its normal course. A small amount of water was running along side the Parkside Café's concrete wall.

There were concerns about potential for a lack of water in the creek to support young steelhead if water wasn't redirected back to the creek.



Date: April 9, 2018

Levels of sediment leave very little room for water to flow under Arenal bridge, therefore cleaning out sediment under that bridge is part of the District's sediment removal work scheduled for September.

Marin County Flood Control and Water Conservation District



Date: April 9, 2018

Collapse at NPS Stinson Beach parking lot following the April 6 washout.

District staff were invited by NPS to be part of the planning team for repairs and improvements at the parking lot. Staff appreciate the opportunity to engage in this process.



Date: April 11, 2018

Sandbag Berm placed by CCNB to redirect creek flows back to its normal course and off of the NPS parking lot.

Secondary goal was to coax deep flows away from the Parkside Café concrete wall and more towards the middle of the creek.

The berm held up well during two small subsequent storms.