

Marin County Flood Control and Water Conservation District

FLOOD CONTROL ZONE 4 ADVISORY BOARD

JULY 29, 2015

NON-MEETING STAFF REPORT

Cove Pump Station

As you may recall, at our last Advisory Board (AB) meeting in March, the AB recommended that staff work with Bob Rogers and John Leszcynski on creating a scope of work for completing an engineering evaluation of the pump station. Nute Engineering of San Rafael was asked to assist with creating a technical memorandum containing the scope of work. The scope of work can be viewed [here](#).

The scope of work is estimated to cost \$110K and six months to complete from the date a consultant starts the evaluation to the date a final report is issued. Keep in mind, though, that both the cost and schedule will likely vary when we receive actual bids from the consultant. Staff expects to release a request for proposals in early-August, review proposals in early-September, and present a contract to the Board of Supervisors for approval as soon as mid-September. This schedule would obviously have the work take place during the rainy season. This is, in part, necessary as the consultant will want to collect and review data of how the pump station performs under various conditions.

As the current FY 2015-16 Zone 4 budget has an amount of up to \$175K for professional services, no further recommendations would be needed from the AB in order for staff to proceed with the evaluation.

Keeping in mind the amount of time the evaluation will take, we will be considering the following actions prior to the rainy season to help with the pump station's performance. Also listed are how these actions compare to actions taken previously.

Goal	This Year's Considered Action(s)	Previous Action(s) Taken
1. Remove debris in stormwater collection system	a. Clean portion of stormwater collection system within District's flood control easement, including trash rack, wet well, and the portion of the 42" pipe within the District's right-of-way, which extends approximately 325 ft. upstream of pump station.	Debris is removed from the storm drainage system at the trash rack and wet well (i.e., forebay). The collection system on public property was surveyed by the county. Following the December storms, the county extended the survey to include private property (including shopping center) and have now mapped existing drainage system.
	b. Contact Town of Tiburon and discuss cleaning of stormwater collection system within their jurisdiction.	Not formally requested in prior years; but the Town of Tiburon does have an existing cleaning program.
	c. Contact shopping center owner and discuss need to clean stormwater collection system within their jurisdiction.	Information on proper care of storm drains and creeks, and waste disposal has been made available on county website at: http://www.marincounty.org/depts/pw/divisions/mcstoppp/general-public/informational-brochures
	d. Proceed with design and installation of automatic, self-cleaning trash rack.	Trash rack cleaned manually prior to, during, and following storm events.
2. Reduce amount of debris entering stormwater collection system	a. Mail community outreach flyer to outline homeowner responsibilities for trash and debris disposal.	Information on proper care of storm drains and creeks, and waste disposal has been made available on county website at: http://www.marincounty.org/depts/pw/divisions/mcstoppp/general-public/informational-brochures
	b. Discuss improvement of refuse management, including collection, containment, and pickup, at shopping center.	
	c. Investigate and repair (if/as necessary) grate at secondary inlet structure immediately adjacent to pump station.	Grate condition was noted during an inspection earlier this year. No recent repairs on record.
3. Provide supplemental pumping capacity	a. Place portable pump at pump station prior to beginning of rainy season.	Portable pump placed at pump station following December 3, 2014 flooding. Portable pump was stored at nearby Pamela Court Pump Station.
4. Increase monitoring / reduce response time during storms	a. Have dedicated staff stationed at pump station during inclement weather to ensure quick response for addressing possible system failures.	Staff are automatically notified of pump station emergencies and are on call to respond. Limited staff and the possibility of multiple and competing emergencies typically prohibits there from being a dedicated person for a particular pump station. Instead, staff make rounds from one pump station to the next during storms unless there is an emergency reported.
5. Collect information required for pump station evaluation	a. Summarize pumps' on/off sequencing and compare to original design.	Modifications to the pumps' current mode of operation and current controls have occurred since the pump station's original construction forty years ago upon recommendation and based on years of observation.
	b. Inspect and confirm condition and construction of wet well.	Cleaned regularly, but not inspected as issues have not been expected.

Next AB Meeting

No actions are needed for staff to proceed with the evaluation or preseason preparations, including proceeding with the next steps required prior to installation of a self-cleaning trash rack. (Note that a large amount of trash and debris is believed to have significantly affected the pump station's performance during the December 3, 2014 rain event. Installing a self-cleaning trash rack may significantly reduce the amount of trash and debris at the trash rack and, thereby improve pump station performance.) As noted previously, \$175K is available for the evaluation and approximately \$100,000 is available in equipment improvement funds for installation of the trash rack.

If the cost for the evaluation or to install a trash rack exceeds these amounts, we may need to return to the AB this fall to receive the AB's recommendation on whether or not to increase the budget. If a meeting is not needed, we recommend the next AB meeting take place in the spring to review and comment on the draft evaluation results.

We will keep the AB informed on pre-season preparations, operating conditions during the rainy season, and the evaluation progress via email. Bob and John may also choose to continue their role on the subcommittee and review interim deliverables related to the evaluation. These deliverables may also be viewed by, though not discussed between, other AB members.