

Monthly Operating Report

Richmond WWTP and Collection System

April, 2017

Executive Summary

Wastewater Treatment Plant

- There were no permit violations in the month of April 2017.
- There were no blending events in April.
- The monthly acute aquatic bioassay test passed with 100% survival of the fathead minnows.
- There were two phoned in odor complaints in April, both on the 6th. One complaint came in at 01:10 hours by a repeat caller in the area of E. Scenic Drive. The second complaint came in at 1400 hours by Debbie, at the office complex at the corner of Canal and Cutting. One of the callers also called the Air District who sent an inspector to the plant the next day (4/7). No odors were noted during that visit.
- Staff presented odor control response update at the Point Richmond Neighborhood Council meeting on the evening of 4/26.
- Plant staff is evaluating issues with combined effluent dechlorination and considering reconfiguring SBS feed point to resolve. This would involve adding a bulk storage tank and secondary containment in the area of the confluence structure.

Table 1	Parameter	Monthly Performance Indicators	Limit/Target
Treatment Plant Operations:			
	Influent Flow, daily average (MGD)	7.54	N/A
	Effluent Flow, daily average (MGD)	7.64	N/A
	Influent BOD ₅ , avg. mg/L	204	N/A
	Influent TSS, avg. mg/L	280	N/A
	Effluent TSS, monthly average mg/L	9.6	30 or less
	Effluent BOD, monthly average mg/L	10.4	30 or less
	% BOD Removal	94.4	> 85
	% TSS Removal	96.4	> 85

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NPDES Effluent Limit Violations	0	0
Blending events	0	0
Total volume blended, MG	0	0
Odor complaints	2	0
Digested sludge pumped to drying beds, MG	1.70	N/A
Leachate received, GAL	478,492	N/A
Leachate received YTD, MG	1.93	N/A

Maintenance

Staff completed 179 preventive maintenance work orders during the month; 66 at sewer lift stations, 51 for storm water pump stations, 62 preventative work orders at the treatment plant along with 13 corrective work orders.

- Installed new pump at Ferry pump lift station and the second pump replacement is scheduled.
- New plant Cisco phone system installed and in operation in April
- Contract staff installed new contract driveway access to wet weather facility pump station area
- Arborist contracted to remove Eucalyptus trees outside of southwest plant boundary to prevent damage to confluence area structures and staff
- Worked with Veolia IT Technical group trying to improve plant network speeds
- Worked with West County Wastewater District staff and completed commissioning and tie in of flow meter measuring flow to Richmond from their facility

Look Ahead; May - June

- The cog rake electrical panel upgrade is scheduled for installation in June.
- Replace SBS Watson Marlow with an Encore 700 metering pump.
- Rebuild primary clarifier skimmers #1 & #2; parts due 5-25-17.
- Install aerator blade on 2B. Remove floating aerators.
- Semiannual Dystor cover inspections
- 17 lift station radios have been received and programmed; installation pending

Collection Systems

Sanitary Sewer System

During the month of April there were no sewer overflow events and a No Spill certification was filed with the State.

There were a total of twenty (20) sanitary sewer service calls in April, nine (9) of which were private lateral issues. (See table 2).

April, 2017

Sanitary Sewer Point Repair Highlights:

There were two (2) sanitary sewer repairs performed during the month of April 2017. The concrete slurry repair at 570 McLaughlin Ave was completed on April 7th and the manhole channel access on 33rd St and McBryde Ave was completed on April 5th.

Storm Water

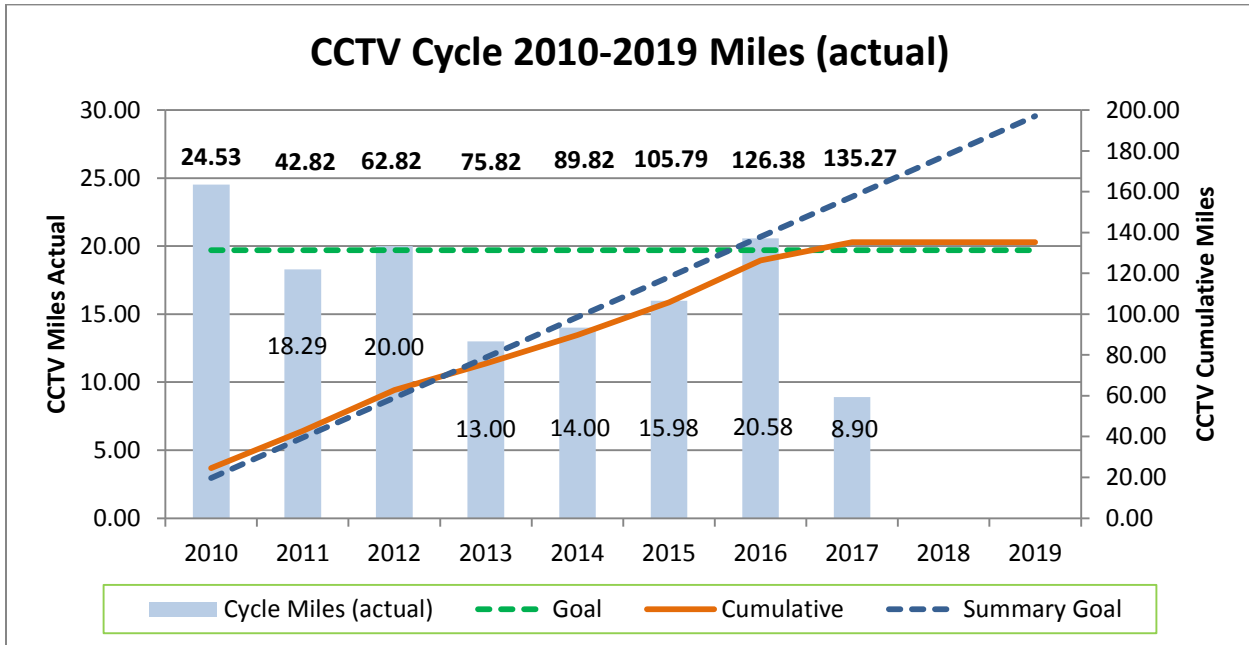
There were five (5) storm-water related service calls in April (See table 3).

Storm Water Point Repair Highlights

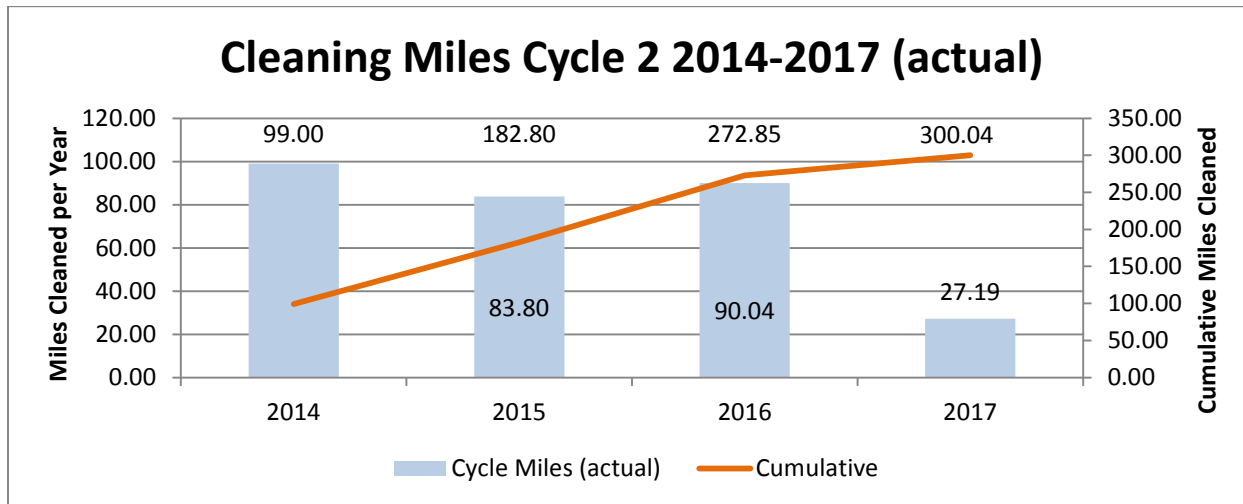
- Staff installed new storm water cover grates at Crest Ave
- The moving plate at the crossing of Cutting Blvd and Canal Blvd have been repaired this month by W.R. Forde and is functioning really well.

Collection Systems Monthly Performance Indicators

Veolia is in the 8th year of a 10-year CCTV cycle. Cycle start date was January 1, 2010.



Veolia is in the 4th year of a 4-year sewer cleaning cycle. Cycle start date was January 1, 2014. Cumulative footage exceeds the goal to-date.



Sanitary System Performance Indicators

Table 2

Performance Indicator	Monthly Actual	Target/Limit
Service Calls (Public Facilities/Assets)	20	N/A
Service Call Response Time (minutes)	<30	<30
Private Lateral Service Calls; Regular/After Hours	9/0	N/A
Regular/OT Hours Spent on Private Lateral Calls	6/3	N/A
Point Repairs Completed	2	N/A
Manhole Inspections	0	N/A
Manhole Repairs	0	N/A
CCTV (Closed Circuit TV) (ft.)	14,067	7,000
GPS Surveys	0	As needed
Cleaning (ft.)	29,624	25,000
Cleaning QA/QC Events	2	4
SSOs for Current Month – Mainline	0	10/yr.
Total Mainline SSO Volume (gallons)	0	0
Total Mainline SSO Volume Recovered (gallons)	0	100%
% Mainline SSO Volume Recovered	0	100%
# SSOs – Wet Weather (Localized Capacity Issue)	0	0
# SSOs – Engineered Overflow Structure	0	0
Total SSO Volume from Engineered Overflow Structure	0	N/A
SSOs – Private Laterals	0	N/A
General Maintenance	5	N/A

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Sewer Lift Station PMs	66	N/A
Potential SSOs Eliminated due to SmartCover Monitors	0	N/A
SSOs – Mainline – Resulting in Property Damage	0	0
Total Wet Weather SSOs Year to Date	35	0
Total Dry Weather SSOs Year to Date	0	10 - Baykeeper
Number and Percentage of SSOs During 2017 with Discharge Reaching Storm Water Conveyance	35 of 35 - 100%	N/A

Storm Water System Performance Indicators

Table 3

Performance Indicator	Monthly Actual	Target/Limit
Storm Point Repairs	2	N/A
Storm Manhole Repairs	0	N/A
Storm Manhole Inspections	0	N/A
Storm Service Calls	5	N/A
Storm CCTV (ft)	0	N/A
Storm GPS Surveys	0	N/A
Storm Pipe Cleaning (ft)	0	N/A
Storm General Maintenance Cleaning (Linear feet of V-Ditches, Culverts or Creeks)	0	N/A
Pump Stations/Inlet/Outlet Channels Cleaned	1	N/A
Cash Basins/inlets/storm drains Cleaned	42	N/A
Storm Vaults Cleaned/Inspected	0	N/A
GSRD (trash capture device) Cleaning/Inspections	0	4/year
Flap Gate/Duck Bill Inspections	0	4/year
Storm Water Pump Station PMs	51	N/A

Capital Improvement Program

Electrical Upgrade Project Construction

- Took delivery of and set in place the Main 15kV Switchgear Building.
- Pulled wire at Digester Building and Disinfection Building Area.
- Pulled Fiber Optic and 15kV Cable.
- Set in place two transformers behind Main Switchgear Building
- Hauled-off all spoils to clean up site.

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13th Street Capacity Improvement Project Design

- This project replaces pipelines with NASSCO PACP Structural Grade 4 and 5 defects in the sewershed that flows to the 13th Street interceptor and replaces and upsizes the 13th Street interceptor from Costa to Garvin.
- Bids were opened on October 20, 2016. The project has been on hold pending approval of SRF funding and will now be combined with the 23rd Street Sewer Replacement Design and re-bid in May 2017. Design work continued for the combined document in April.

23rd Street Sewer Replacement Project Design

- This project replaces the existing 21-inch diameter interceptor sewer and adjacent 6-inch diameter collector sewer between Ohio and Cutting Blvd.
- 100 percent design documents are complete and the project is being combined with the 13th Street project. Design work continued for the combined document. The combined project will be bid in May 2017. Start of construction is anticipated in mid-2017.

Cutting, Carlson, and Hoffman Boulevard Project Designs

- This project replaces pipelines with NASSCO PACP Structural Grade 4 and 5 defects in the sewersheds that flows to Cutting Boulevard. Reduction of inflow and infiltration will reduce the need to upsize the Cutting Boulevard interceptor, thereby reducing overall cost and construction impact to the City.
- 90 percent design documents for the Hoffman Boulevard improvements have been completed and reviewed by Veolia and City staff. 90 percent design documents for Cutting/Carlson Boulevard are in progress and require completion of the remainder of CCTV inspections. Bidding for both projects will occur after the City receives approval for SRF funding.

WWTP Facility Plan Project

- Provided as-needed support for the CWSRF loan applications.
- Prepared additional information requested by the State for the Technical Package for the WWTP Critical Improvements Project SRF Application.

WWTP Critical Improvements Project Design

- Continued preparation of the 100% design deliverable.
- Provided as-needed support for the process sampling effort.
- Began preparation of final progress meeting with City and Veolia.