

Monthly Operating Report

Richmond WWTP and Collection System

May, 2017

Executive Summary

- There were no permit violations in the month of May 2017
- There were no blending events in May
- The monthly acute aquatic bioassay test passed with 100% survival of the fathead minnows.
- Staff met with representatives of the City and West County Wastewater District to discuss shared costs of the joint treatment facilities
- Staff attended a kick off meeting for the sanitary sewer pump station master plan project
- Veolia and City staff, along with consultants, finalized submittal of information in response to Baykeeper information request
- Progress installing ZAPS influent monitoring system proceeding well

Wastewater Treatment Plant

- There was one odor complaint at 5PM on May 9th from a resident at East Scenic Dr in Point Richmond. This was a repeat caller. Peroxide was turned on to the plant influent.
- On 1st May, the secondary clarifier 1 was taken out of service, drained and cleaned and made ready for inspection by the engineers, to survey it for future construction upgrade.
- On 24th May, the primary clarifier 1 was put back in service after short-term repairs. More extensive repairs are expected to be planned and implemented on both the primary clarifiers, one clarifier at a time, later in the year.

Table 1 Treatment Plant Operations Parameters:	Monthly Performance Indicators	Limit/Target
Influent Flow, daily average (MGD)	5.52	N/A

*Monthly Operating Report
Richmond WWTP and Collection System*

May, 2017

Effluent Flow, daily average (MGD)	5.17	N/A
Influent BOD ₅ , avg. mg/L	323	N/A
Influent TSS, avg. mg/L	314	N/A
Effluent TSS, monthly average mg/L	17.3	30 or less
Effluent BOD, monthly average mg/L	27.7	30 or less
% BOD Removal	91.3	> 85
% TSS Removal	94.3	> 85
NPDES Effluent Limit Violations	0	0
Blending events	0	0
Total volume blended, MG	0	0
Odor complaints	1	0
Digested sludge pumped to drying beds, MG	0.97	N/A
Leachate received, GAL	315,209	N/A
Leachate received YTD, MG	2.25	N/A

Maintenance

Staff completed 216 preventive maintenance work orders during the month; 71 at sewer lift stations, 57 for storm water pump stations, 72 preventative work orders at the treatment plant along with 16 corrective work orders.

Completed Projects; – May

- Semiannual Dystor cover inspections completed 5-11-2017
- 17 new lift station radios were received on 5-31-17; twelve radios have been installed. Installation of the remainder will continue thru June.
- Overhauled utility cart and returned to service
- Continue work in support of plant electrical upgrade project. Requires Veolia's Instrumentation, Automation and Control technician to spend significant time assisting electrical contractor with identifying and establishing control connections and inputs/outputs to existing equipment
- Executed contract with R&S Erection to replace all non-functional doors, locks and door frames

Look Ahead; - June

- The bar screen/cog rake electrical panel upgrade is scheduled for installation in June by Central Sierra Electric. Maintenance department will merge the continued replacement of the rake arm rollers while the equipment is out of service for the panel replacement.
- New Ferry Point lift station pump and check valve replacement project began May 1. Pump #1 was installed successfully; pump #2 installation was initiated on 5-30-17, however, due

May, 2017

to a fractured suction pipe the installation was postponed until sufficient repairs can be made. Overaa construction will be out on 6-7-2017 to inspect the damage and provide Veolia with a quotation to repair.

- Replace SBS Watson Marlow with an Encore 700 metering pump.
- Rebuild primary clarifier skimmers #1 & #2, parts due 6-15-2017.
- Install aerator blade on 2B. Remove floating aerators.
- Repair DAF #2 injector pump and return to service.

Collection Systems

Sanitary Sewer System

During the month of May there were 2 dry weather sewer overflow events, both of which resulted in sewage going into the storm drain system.

- 5310 Fallon Ave
- 3403 Andrade Ave

There were a total of nine sanitary sewer service calls in May, two of which were private lateral issues. (See table 2).

Sanitary Sewer Point Repair Highlights:

There were four sanitary sewer repairs performed during the month of May 2017.

- 444 Key Blvd.
- 631 35th St.
- 24TH St. and Lincoln Ave.
- 444 32nd St.

Storm Water

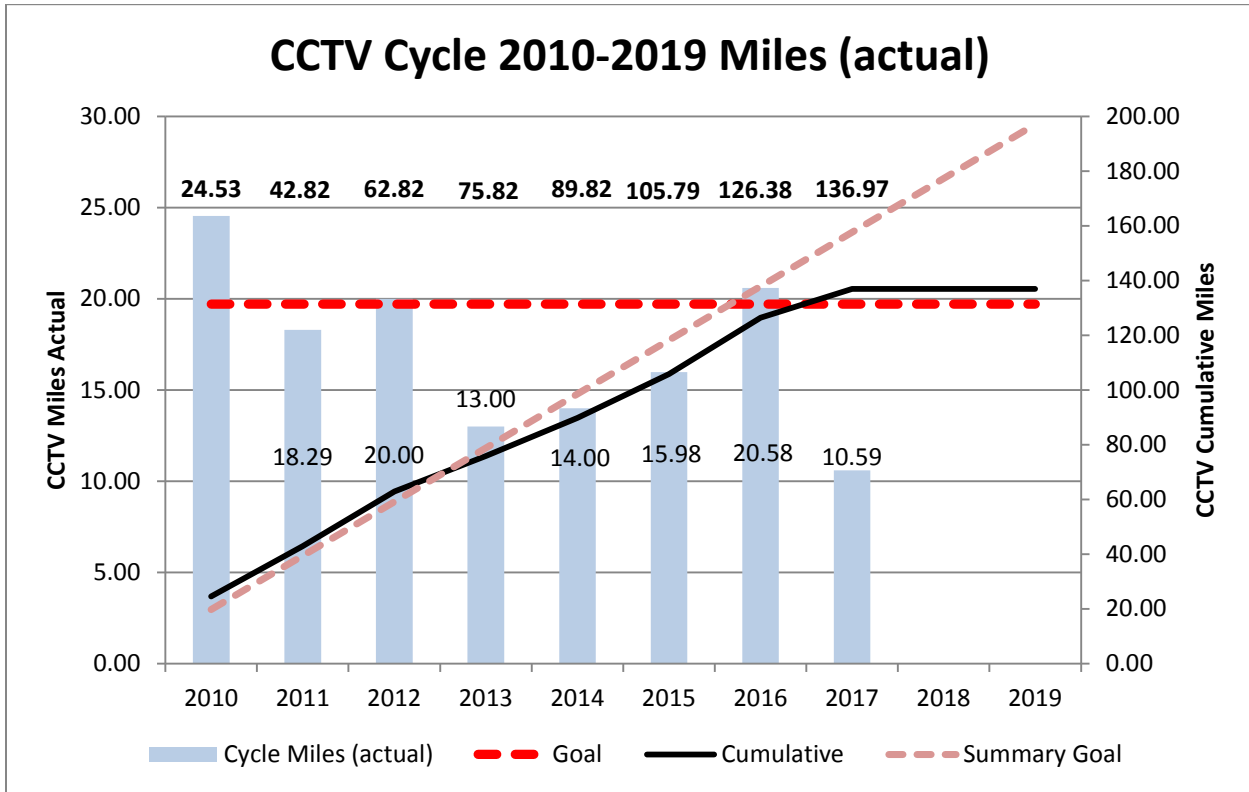
There were two storm-water related service calls in May (see table 3).

Storm Water Point Repair Highlights

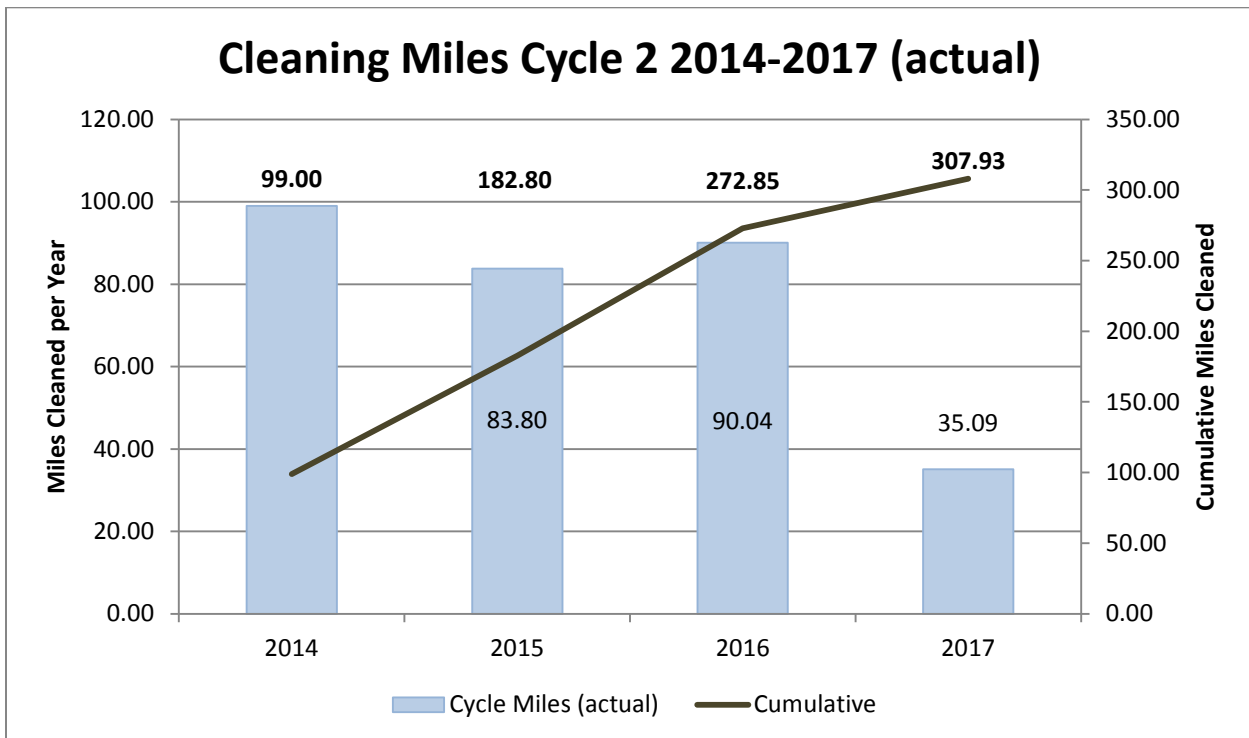
Replaced gate and access doors on 7th St gizzard (trash screen) on 5/23/2017

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.



Monthly Operating Report
 Richmond WWTP and Collection System

May, 2017

Sanitary System Performance Indicators

Table 2

Performance Indicator	Monthly Actual	Target/Limit
Service Calls (Public Facilities/Assets)	9	N/A
Service Call Response Time (minutes)	<30	<30
Private Lateral Service Calls; Regular/After Hours	2/0	N/A
Regular/OT Hours Spent on Private Lateral Calls	6/3	N/A
Point Repairs Completed	4	N/A
Manhole Inspections	0	N/A
Manhole Repairs	0	N/A
CCTV (Closed Circuit TV) (ft.)	8,963	7,000
GPS Surveys	0	As needed
Cleaning (ft.)	41,682	25,000
Cleaning QA/QC Events	3	4
SSOs for current month – Mainline	2	10/yr
Total Mainline SSO Volume (gallons)	523	0
Total Mainline SSO Volume Recovered (gallons)	259	100%
% Mainline SSO Volume Recovered	51%	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
Sewer Lift Station PMs	71	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	2	10 - Baykeeper
Number and Percentage of SSOs During 2017 with Discharge Reaching Storm Water Conveyance	36 of 37 - 97%	N/A

Storm Water System Performance Indicators

Table 3

Performance Indicator	Monthly Actual	Target/Limit
Storm Point Repairs	0	N/A
Storm Manhole Repairs	0	N/A
Storm Manhole Inspections	0	N/A
Storm Service Calls	2	N/A
Storm CCTV (ft)	0	N/A
Storm GPS Surveys	0	N/A
Storm Pipe Cleaning (ft)	500	N/A
Storm General Maintenance Cleaning (Linear feet of V-Ditches, Culverts or Creeks)	0	N/A
Pump Stations/Inlet/Outlet Channels Cleaned	0	N/A
Cash Basins/inlets/storm drains Cleaned	33	N/A
Storm Vaults Cleaned/Inspected	0	N/A
GSRD (trash capture device) Cleaning/Inspections	1	4/year
Flap Gate/Duck Bill Inspections	0	4/year
Storm Water Pump Station PMs	57	N/A

Capital Improvement Program

Electrical Upgrade Project Construction

- Worked on Site Lighting Foundations.
- Poured Concrete Stairs at Electrical Switchgear Enclosures.
- Procurement process for Site Lighting Poles and Fixtures.
- Procurement process for Exhaust Fans at Pipe Gallery.

13th Street Capacity Improvement Project Design

- This project replaces pipelines with NASSCO PACP Structural Grade 4 and 5 defects in the sewer shed that flows to the 13th Street interceptor and replaces and upsizes the 13th Street interceptor from Costa to Garvin.
- The project has been combined with the 23rd Street Sewer Replacement Design and will be re-bid in June 2017. Design work continued in May for the combined document. Start of construction is anticipated in late July or early August 2017.

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.

Monthly Operating Report
Richmond WWTP and Collection System

May, 2017

- 100 percent design documents are complete and the project was combined with the 13th Street project. Design work continued in May for the combined document. The combined project will be bid in June 2017. Start of construction is anticipated in late July or early August 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.

Sludge Leachate Line Condition Assessment

- Kick off meeting held at the beginning of May
- Consultant began site survey work

WWTP Facility Plan Project

- Provided as-needed support for the CWSRF loan applications.

WWTP Critical Improvements Project Design

- Continued preparation of the 100% design deliverable.
- Analyzed results of process sampling effort conducted by plant staff in March 2017.
- Continued preparation of final progress meeting with City and Veolia.

WWTP Perimeter Site Evaluation and Topo Survey

- Held kick-off meeting to officially begin project
- Data collection – site resource map, cultural resources, CEQA
- Completed aerial survey of the project site