



DATE: June 14, 2023

TO: Members of the Board of Directors

FROM: John Gibson, Chief Plant Operator
Reviewed By Chad Davisson, GM

SUBJECT: OPERATION REPORT: May, 2023

Regulatory Compliance

- CIWQS: Submitted May “No Spill Report” verifying no sewer collection system overflows or blockages had occurred during the month.
- CIWQS: Updated and Submitted the Sewer System Management Plan (SSMP) as required every 5 years. Link to the SSMP is provided herein.
[2023 Updated SSMP](#)
- CIWQS: Submitted the Continuation of Existing Regulatory Coverage Certification due to the plant NPDES Permit being renewed currently. The Regional Board allows permits to extend one year while they’re renewing them.
- GOETRACKER: Submitted the Volumetric Annual Report.
- SC Department of Health Services conducted their 2nd Quarter Compostable Materials Handling Operation and Facility Inspection related to the District’s Biosolids composting operation. This was a routine inspections and no issues were identified.

Sampling and Monitoring

- Conducted required Daily lab sampling and analysis at monitoring locations EFF-001
- Conducted required Weekly sampling and analysis at monitoring locations EFF-001
- Conducted required Monthly sampling and analysis for monitoring locations INF-001



Table E-1. Monitoring Station Locations

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
--	INF-001	Untreated influent wastewater collected at the plant headworks at a representative point preceding primary treatment.
--	INT-001A	Secondary treated effluent following the suspended air flotation pretreatment unit and immediately prior to the filtration unit.
--	INT-001B	Tertiary treated effluent immediately following the advanced wastewater (AWT) filtration process and prior to the disinfection process.
--	INT-002A	Pasteurization contact chamber influent
--	INT-002B	Pasteurization contact chamber effluent (i.e., at a point in the pasteurization disinfection process for demonstrating compliance with pasteurization temperature and contact time requirements).
001	EFF-001	Treated wastewater after disinfection but prior to discharge to the effluent storage ponds.
002	EFF-002 ¹	Treated wastewater discharged from the effluent storage ponds to Atascadero Creek.
003 and 004	REC-001 ¹	Treated wastewater following all treatment and storage in either of the storage ponds, and before it enters the recycled water distribution system or the designated transfer pipeline for delivery to the Forestville Water District Wastewater Treatment Plant (WWTP) for further treatment and discharge to Jones Creek or is recycled.
--	RSW-001	Upstream receiving water monitoring location in Atascadero Creek, upstream of the discharge at Discharge Point 002 at a location that is not influenced by the discharge.
--	RSW-002	Downstream receiving water monitoring location in Atascadero Creek immediately downstream of the discharge at Discharge Point 002 in the area influenced by the discharge.
--	BIO-001	A representative sample of the sludge or biosolids generated when removed for disposal.
--	PND-001	Permittee's on-site storage pond, Holding Pond 1 (west)
--	PND-002	Permittee's on-site storage pond, Holding Pond 2 (east)
--	PND-003	Kendall-Jackson Vineyard Estates



Table E-5. Effluent Monitoring – Monitoring Location EFF-001

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method ¹
Effluent Flow ¹	MGD	Meter	Continuous	--
Biochemical Oxygen Demand 5-Day @ 20°C (BOD ₅)	mg/L	Grab	Weekly ²	Part 136 ³
	% Removal	Calculate	Monthly	--
pH	standard units	Grab	Daily	Part 136
Total Suspended Solids	mg/L	Grab	Weekly ²	Part 136
	% Removal	Calculate	Monthly	--
Temperature	°F	Meter	Continuous	Part 136
Total Coliform Bacteria	MPN/100 mL	Grab	Daily ^{4,5}	Part 136
Chlorine, Total Residual ⁶	mg/L	Meter	Continuous	Standard Methods
Disinfection CT ⁷	mg-min/L	Calculate	Daily	

Table E-2. Influent Monitoring – Monitoring Location INF-001

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Influent Flow ²	mgd	Meter	Continuous	--
Biochemical Oxygen Demand 5-day @ 20°C (BOD ₅)	mg/L	24-hr Composite	Monthly	Part 136 ¹
Total Suspended Solids (TSS)	mg/L	24-hr Composite	Monthly	Part 136

Table Notes:

1. Pollutants shall be analyzed using the analytical methods described in 40 C.F.R. part 136 or by other methods approved by the Regional Water Board or State Water Board.
2. Each quarter, the Permittee shall report the average daily and average monthly flows.

Operations Report: Operations, Process Control, and Preventative Maintenance

The following operations, maintenance and process control activities were carried out.

1. Plant Backup Generator:

- Performed a routine service on the plant backup generator.
 - Drained and changed the oil and filter.



- o Removed and inspected the serpentine belt for wear and tear, belt was in good condition reinstalled and ordered a backup from Generac.
- o Inspected the air filter, fluid levels, electrical connections, hoses, battery, overall visual inspection shows generator in good condition
- o Ran a manual test run and checked for leaks, none found.
- o Re-checked fluid levels and placed the generator back in service.

2. Flushing and Treatment:

- Conducted weekly flushing of the SAF rotary gear pump and froth system using a rust inhibitor. This preventive measure aims to prevent pump seizing and minimize the need for callouts.
- Performed a CIP (Clean-in-Place) process on the Froth system, utilizing chlorine for thorough cleaning and disinfection.
- Implemented a CIP procedure on the SAF system with chlorine, followed by a flush with well water. Additionally, the influent screen was cleaned to optimize system performance.

3. Sewer Lateral Inspection:

- A sewer lateral inspection was conducted for 3130 Brush, revealing a visible offset and root intrusion in the lateral. The homeowner promptly completed the necessary repairs upon notification, and a final CCTV inspection was carried out to confirm the completion of repairs. Consequently, a certificate of compliance was issued to the homeowner.
- A sewer lateral inspection was performed for 2930 Edison St., indicating no signs of required maintenance or repairs. As a result, a certificate of compliance was issued to the homeowner.
- During an excavation at 8616 Graton Rd., an exposed clay pipe was inspected. It was confirmed that the exposed pipe does not pertain to a sewer lateral or any part of the District's system.

4. Weed Abatement:

- Implemented weed abatement measures around plant roadways and at Lift Station #1.

5. Polymer Feed System:

- Carried out maintenance on the polymer chemical feed system including; cleaning the sight glass, rotameters, and pressure regulator filter screen.

6. Chlorine Contact Basin:

- Pumped out the chlorine contact basin and washed down the concrete walls.
- Replaced a rubber drain plug connecting two of the CCB walls for cleaning.

7. Settling Pond:



- Replaced the connections for the flooded suction piping, which connect the wet well soft hose to the settling pond float. The original connections, made of galvanized steel, would corrode and degrade over time, leading to the float disconnecting from the influent pipe. This resulted in the flooded suction pipe sinking to the bottom of the settling pond, causing excessive levels of settled solids to overwhelm the system and creating downstream issues in the treatment process. To address this, we replaced all of the chain and shackle connections with stainless steel, which is more resistant to corrosion and degradation.
- Installed a stainless-steel cable at the end of the flooded suction hose and securely anchored it to the shore. This ensures that in case of a float failure, the hose can be easily located and reattached.

8. Purge Tank:

- Removed and replaced a leaking 8” butterfly drain valve.

9. Turbidity Meters:

- Conducted calibration procedures on the turbidity meters of the Fuzzy Filters and SAF unit 1720E.

10. Plant Address Post:

- Replaced the address post located near the roadway, which had been knocked over by a delivery truck.



Before



After

11. Solar Panels:



North Coast Solar is currently in the process of installing floating solar panels in the West holding pond. The installation is ongoing and progressing smoothly.