

March 22, 2024

Mr. Jeffrey Gove
Director of Enforcement
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, CA 94105

TV Tracking #: 890

1. ☐ RECEIVED IN 03/27/2024
ENFORCEMENT:

Re: Title V Semi-Annual Report
September 1st, 2023, to February 29th, 2024
San Jose/Santa Clara Regional Wastewater Facility
700 Los Esteros Road, San Jose, CA 95134
Facility No. A0778

Dear Mr. Gove:

This letter and the attached table comprise Title V Semi-annual report for the San Jose-Santa Clara Regional Wastewater Facility (RWF) covering the period from September 1st, 2023, through February 29th, 2024. The RWF was in compliance with all applicable requirements during the reporting period.

A summary of compliance provisions is included in the attached table. The basis for the compliance determination is listed in the Results column. The monitoring data, source test reports, and records that validate the complete compliance record are available for inspection on site. If there are any questions, or if additional information is required, please contact Jason Nettleton, Air Compliance Manager, at Jason.Nettleton@sanjoseca.gov.

Based on information and belief formed after reasonable inquiry, I certify that the information presented in this Semi-Annual Report is true, accurate, and complete.

Sincerely,

Mariana Chavez-Vazquez
Mariana Chavez-Vazquez (Mar 25, 2024 09:53 PDT)

Mariana Chavez-Vazquez
RWF General Manager
Environmental Services Department

Enclosures:

1. Semi-Annual Report Table

SAN JOSE/SANTA CLARA WATER POLLUTION CONTROL PLANT
SAN JOSE CA BAAQMD PERMIT #778
SEMI-ANNUAL MONITORING REPORT
REPORTING PERIOD: 9/1/2023 - 2/29/2024

Nomenclature: annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E), 8760 hrs. of operation (8760 hrs.)

Table VII— E

Applicable Limits and Compliance Monitoring Requirements

S-38, Commercial Boiler, 12.5 MM BTU/hr

S-39, Commercial Boiler, 12.5 MM BTU/hr

Type of Limit	Citation for Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	RESULTS		
NO _x	BAAQMD Regulation 9-7-307.3	Y	15 ppmv, dry @ 3% O ₂ (natural gas combustion)	BAAQMD Condition 17900, Part 19 & 20	P/A	S-38 Date: 11/14/22	Result: 9.0 ppm	S-39 Date: 11/14/22 Result: 9.6 ppm
						<i>Note: Both boilers have been officially retired as of 10/31/23.</i>		
NO _x	BAAQMD Condition 17900, Part 16	Y	44.6 lbs/24hr combined emissions from 38, and 39	BAAQMD Condition 17900, Part 18	P/M	S-38 Date: --	Result: 0.0 lb/day	S-39
						<i>Note: Max. value for this reporting period.</i>		
CO	BAAQMD Regulation 9-7-301.3	Y	400 ppmv, dry @ 3% O ₂ (natural gas combustion)	BAAQMD Condition 17900, Part 19	P/A	S-38 Date: 11/14/22	Result: < 0.7 ppm	S-39 Date: 11/14/22 Result: < 0.7 ppm
SO ₂	BAAQMD Regulation 9-1-302	Y	300 ppmv outlet SO2 315 ppmv TRS digester gas	BAAQMD Condition 17741, Part 4	P/D	S-210 Date: 12/1/23	Result: 157 ppm	
						<i>Note: Max. value for this reporting period.</i>		
SO ₂	BAAQMD Condition 17900, Part 17	Y	14 lb/24 hr combined emissions from 38, and 39	BAAQMD Condition 17900, Part 18	P/M	S-38 Date: N/A	Result: 0.0 lb/day	S-39
						<i>Note: Max. value for this reporting period. Both boilers use natural gas only.</i>		
Heat Input	BAAQMD Condition 17900, Part 15	Y	S38: 12.5 MM Btu/hr S39: 12.5 MM Btu/hr	BAAQMD Condition 17900, Part 18	P/M	S-38 Date: --	Result: 0.0 MMBtu/hr	S-39 Date: -- Result: 0.0 MMBtu/hr
						<i>Note: Max. value for this reporting period.</i>		

at basis (E), 8760 hrs. of operation (8760 hrs.)

[illegible]

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Table VII— L (cont.)

Applicable Limits and Compliance Monitoring Requirements

S-67, Cogeneration System #1

S-68, Cogeneration System #2

S-69, Cogeneration System #3

S-70, Cogeneration System #4

Formaldehyde	BAAQMD Condition 26639, Part 14	Y	0.41 lb/hr (digester gas/natural gas combustion)	BAAQMD Condition 26639, Part 18	P/ 8760 hrs.	S-67 Date: 9/6/23 Result: 0.010 lb/hr Hours: 451 S-68 Date: 9/7/23 Result: 0.410 lb/hr Hours: 3655 S-69 Date: 1/12/24 Result: 0.007 lb/hr Hours: 470 S-70 Date: 9/8/23 Result: 0.003 lb/hr Hours: 3668
POC (NMOC)	BAAQMD Condition 26639, Part 15	Y	0.12 grams/bhp-hr (digester gas/natural gas combustion)	BAAQMD Condition 26639, Part 18	P/ 8760 hrs.	S-67 Date: 9/6/23 Result: 0.04 ppm Hours: 451 S-68 Date: 9/7/23 Result: 0.03 ppm Hours: 3655 S-69 Date: 1/12/24 Result: 0.01 ppm Hours: 470 S-70 Date: 9/8/23 Result: 0.05 ppm Hours: 3668
POC (CH ₄)	BAAQMD Condition 26639, Part 15	Y	30.6 ppmv @ 15% O ₂ dry (digester gas/natural gas combustion)	BAAQMD Condition 26639, Part 18	P/ 8760 hrs.	S-67 Date: 9/6/23 Result: 10.1 ppm Hours: 451 S-68 Date: 9/7/23 Result: 6.3 ppm Hours: 3655 S-69 Date: 1/12/24 Result: 2.6 ppm Hours: 470 S-70 Date: 9/8/23 Result: 10.3 ppm Hours: 3668
NH ₃	BAAQMD Condition 26639, Part 16	Y	10 ppmv @ 15% O ₂ dry (digester gas/natural gas combustion)	BAAQMD Condition 26639, Part 18	P/ 8760 hrs.	S-67 Date: 9/6/23 Result: 5.56 ppm Hours: 451 S-68 Date: 9/7/23 Result: 0.47 ppm Hours: 3655 S-69 Date: 1/12/24 Result: 1.13 ppm Hours: 470 S-70 Date: 9/8/23 Result: 1.32 ppm Hours: 3668
SO ₂	BAAQMD Condition 26639, Part 4	Y	50 ppm total sulfur digester gas treated by A9 and A18	BAAQMD Condition 26639, Part 20	P/M	A9 & A18 Date: 9/1/23 Result: 0.01 ppm <i>Note: Max. value for this reporting period.</i>
Heat Input	BAAQMD Condition 26639, Part 2	Y	Combined heat input 1,084,974 MMBtu/ 12-month period	BAAQMD Condition 17901, Part 15	P/M	S-67 Date: 3/1/23 - 2/29/24 Result: 697,239 MMBtu/12-mo. S-68 S-69 S-70
SCR Catalyst Temp.	BAAQMD Condition 26639, Part 6	Y	Maintain exhaust gas temperature within range: 575°F to 960° F	BAAQMD Condition 26639, Part 22	P/M	S-67 Date: 9/9/23 Min. Temp.: 793 °F Date: 9/28/23 Max. Temp.: 862 °F S-68 Date: 9/5/23 Min. Temp.: 784 °F Date: 2/1/24 Max. Temp.: 885 °F S-69 Date: 9/27/23 Min. Temp.: 781 °F Date: 2/23/24 Max. Temp.: 879 °F S-70 Date: 2/6/24 Min. Temp.: 789 °F Date: 2/23/24 Max. Temp.: 883 °F <i>Note: Min. & max. values for this reporting period.</i>

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Table VII— N

Applicable Limits and Compliance Monitoring Requirements

S-110, Preliminary Treatment

A-20, Biotrickling Filter

S-120, Primary Treatment

A-6, Adsorption, Activated Carbon/Charcoal

S-200, Sludge Handling

A-5, Biotrickling Filter

Type of Limit	Citation for Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	RESULTS
H ₂ S	BAAQMD Condition 26312, Part 2 & 27178 Part 2	Y	1.5 ppm, outlet	BAAQMD Condition 26312, Part 4 & 27178 Part 3	P/W	<div> <div>A-5 Date: 9/13/23 Result: 0.05 ppm</div> <div>A-6 Date: 1/31/23 Result: 1.00 ppm</div> <div>A-20 Date: 10/26/23 Result: 0.61 ppm</div> </div> <p><i>Note: Max. value for this reporting period.</i></p>
POC	BAAQMD Condition 26312, Part 2	Y	10 ppm, outlet	BAAQMD Condition 26312, Part 4	P/W	<div>A-6 Date: 10/11/23 Result: 4.3 ppm</div> <p><i>Note: Max. value for this reporting period.</i></p>