

Environmental Services Department

San Jose-Santa Clara Regional Wastewater Facility

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. DI 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

Гуре of _imit	Citation for Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	RESULTS				
VO _x	BAAQMD	Υ	15 ppmv, dry	BAAQMD	P/A	S-38	Date: 11/14/22	Result:	9.0 ppm	
	Regulation	4.1	@ 3% O ₂	Condition		S-39	Date: 11/14/22	Result:	9.6 ppm	
	9-7-307.3		(natural gas combustion)	17900, Part 19 & 20		Note: E	Both boilers have b	een officially	y retired as of 10/31/23.	
10 _x	BAAQMD	Υ	44.6 lbs/24hr	BAAQMD	P/M	S-38	Date:	Result:	0.0 lb/day	
•	Condition		combined emissions	Condition	700000000	S-39				
	17900, Part16		from 38,and 39	17900, Part 18						
						Note: N	Max. value for this i	reportina pe	riod.	
20	BAAQMD	Υ	400 ppmv, dry	BAAQMD	P/A	S-38	Date: 11/14/22	Result:	< 0.7 ppm	
	Regulation		@ 3% O ₂	Condition		S-39	Date: 11/14/22	Result:	< 0.7 ppm	
	9-7-301.3		(natural gas combustion)	17900, Part 19	11.20					
SO ₂	BAAQMD	Y	300 ppmv outlet SO2	BAAQMD	P/D	S-210	Date: 12/1/23	Result:	157 ppm	
	Regulation 9-1-302		315 ppmv TRS digester gas	Condition 17741,						
				Part 4		Note: N	Max. value for this i	reporting pe	riod.	
SO ₂	BAAQMD	Υ	14 lb/24 hr	BAAQMD	P/M	S-38	Date: N/A	Result:	0.0 lb/day	
	Condition 17900,		combined emissions from 38, and 39	Condition 17900,		S-39				
	Part 17	-		Part 18		Note: N	Max. value for this i	reporting pe	riod. Both boilers use natural gas	
Heat	BAAQMD	Y	S38: 12.5 MM Btu/hr	BAAQMD	P/M	S-38	Date:	Result:	0.0 MMBtu/hr	
nput	Condition 17900, Part 15		S39: 12.5 MM Btu/hr	Condition 17900, Part 18		S-39	Date:	Result:	0.0 MMBtu/hr	
		4				Note: N	Max. value for this i	reporting pe	riod.	

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Applicable Limits and Compliance Monitoring Requirements

S-210, Anaerobic Digesters A-404 - A-407, Flares

Type of	Citation	FE		Monitoring Requirement	Monitoring Frequency	RESULTS					
Limit	for Limit	Y/N	Limit A406: 0.06 lb/MMBtu	Citation BAAQMD	(P/C/N) P/8760 hrs.	A-406 Date: 9/15/20 Result: 0.022 lb/MMBtu Hours: 73					
Flare	BAAQMD	Y				A-406 Date: 9/15/20 Result. 0.022 ib/Mivibita 110drs. 75					
NO _x	Condition		(digester gas combustion)	Condition	or 5 yrs.						
	17741,			17741,	1 1 1 2 2						
	Part 14			Part 18		Note: Run. hrs. from last source test to end of this reporting period.					
Flare	BAAQMD	V	A406: 0.2 lb/MMBtu	BAAQMD	P/8760 hrs.	A-406 Date: 9/15/20 Result: 0.004 lb/MMBtu Hours: 73					
CO	Condition	1	(digester gas combustion)	Condition	or 5 yrs.	7,100 Batol 6116120					
00	17741,		(digodol gas compastion)	17741,	0.0,0						
	Part 15			Part 18		والراب المراجع والمراجع والمستعدد والمراجع والمستعدد والمراجع المراجع والمستعدد والمراجع والم					
Flare	BAAQMD	_	A406: 0.278 lb/hr	BAAQMD	P/8760 hrs.	A-406 Date: 9/15/20 Result: <0.0004 lb/hr Hours: 73					
H ₂ S	Condition	l'	(digester gas combustion)	Condition	or 5 yrs.	7 400 Bato. 6/10/20 Produkt.					
1120	17741,		(digester gas combustion)	17741,	or o yro.						
	Part 16			Part 18							
	Part 16			rait 10		المحد كالمحد بالمؤمنين والمتابع المتابع					
Flare	BAAQMD	Υ	A406: 0.9 lb/MMBtu	BAAQMD	P/8760 hrs.	A-406 Date: 9/15/20 Result: <0.01 lb/MMBtu Hours: 73					
CH₄	Condition		(digester gas combustion)	Condition	or 5 yrs.	세계의 그는 그만만 반게 된 그는 맛있는 것 같					
	17741,	16		17741,							
	Part 17		4 1	Part 18							
Flare	BAAQMD	Y	A406: 605 MMBtu/day	BAAQMD	P/M	A-406 Date: 9/19/23 Result: 523 MMBtu/day					
Heat	Condition	1	A407: 6,567 MMBtu/day	Condition		A-407 Date: 9/13/23 Result: 108 MMBtu/day					
Input	17741,		(digester gas combustion)	17741,							
	Part 9 & 10		,	Parts 19							
Class.	BAAQMD	V	A406: Maintain minimum	BAAQMD	P/W	Note: Max. value for this reporting period. A-406 Date: 9/20/23 Min. Temp.: 1461 °F					
Flare	Condition	ľ	temperature of	Condition	F/W	A-406 Bate. 3/20/20 Will. Temp 1401					
Combustion Zone	17741.	4	1400 °F	17741,		and the second of the second o					
Temperature	Part 13		(digester gas combustion)	Part 12							
remperature	r art 10	11-1	(digostor gao combaction)			Note: Min. value for this reporting period.					
Digester	BAAQMD	Υ	315 ppm total sulfur	BAAQMD	P/W	S-210 Date: 12/1/23 Result: 157 ppm					
Gas	Condition		T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Condition							
Sulfur	17741,			17741,							
Content	Part 3.a &			Part 5							
	3.b		4.6			Note: May value for this reporting paried					
SO ₂	BAAQMD	+-	12.722 tons/	BAAQMD	P/M	Note: Max. value for this reporting period. S-210 Date: 3/1/23 - 2/29/24 Result: 0.156 tons/12-mo.					
002	Condition		12-month period	Condition	1. ""	O E 10 Date. Of the Elected 1 1000th C. 100 to 100 te 1100					
	17741,		12-month period	17741,							
1.1.1	Part 4			Part 5		alleria de pelo de la companione de la comp					
	r ait 4			l arto							
H ₂ S	BAAQMD	1	1.22 lb/hr	BAAQMD	P/D	S-210 Date: 12/2/24 Result: 0.09 lb/hr					
Emissions	Condition			Condition							
Digester	17741,	1	(Including digesters' PRVs)	17741,		Auto and the same of the same					
Gas	Part 8.a			Part 8							
Release	l l		a 4 4	F TL.		determinate of the					
						Note: Max. value for this reporting period.					

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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

Formal-	BAAQMD	Υ	0.41 lb/hr	BAAQMD	P/ 8760 hrs.	S-67	Date: 9/6/23	Result:	0.010 lb/hr	Hours:	451
dehyde	Condition		(digester gas/natural gas	Condition		S-68	Date: 9/7/23	Result:	0.410 lb/hr	Hours:	3655
	26639,		combustion)	26639,		S-69	Date: 1/12/24	Result:	0.007 lb/hr	Hours:	470
	Part 14			Part 18		S-70	Date: 9/8/23	Result:	0.003 lb/hr	Hours:	3668
POC	BAAQMD	Y	0.12 grams/bhp-hr	BAAQMD	P/ 8760 hrs.	S-67	Date: 9/6/23	Result:	0.04 ppm	Hours:	451
(NMOC)	Condition		(digester gas/natural gas	Condition		S-68	Date: 9/7/23	Result:	0.03 ppm	Hours:	3655
	26639,		combustion)	26639,	100	S-69	Date: 1/12/24	Result:	0.01 ppm	Hours:	470
	Part 15			Part 18	11.	S-70	Date: 9/8/23	Result:	0.05 ppm	Hours:	3668
POC	BAAQMD	Y	30.6 ppmv	BAAQMD	P/ 8760 hrs.	S-67	Date: 9/6/23	Result:	10.1 ppm	Hours:	451
(CH ₄)	Condition		@ 15% O2 dry	Condition	-	S-68	Date: 9/7/23	Result:	6.3 ppm	Hours:	3655
	26639,		(digester gas/natural gas	26639,		S-69	Date: 1/12/24	Result:	2.6 ppm	Hours:	470
	Part 15	-	combustion)	Part 18		S-70	Date: 9/8/23	Result:	10.3 ppm	Hours:	3668
NH3	BAAQMD	Y	10 ppmv	BAAQMD	P/ 8760 hrs.	S-67	Date: 9/6/23	Result:	5.56 ppm	Hours:	451
	Condition		@ 15% O2 dry	Condition		S-68	Date: 9/7/23	Result:	0.47 ppm	Hours:	3655
	26639,		(digester gas/natural gas	26639,		S-69	Date: 1/12/24	Result:	1.13 ppm	Hours:	470
	Part 16		combustion)	Part 18		S-70	Date: 9/8/23	Result:	1.32 ppm	Hours:	3668
SO ₂	BAAQMD	Y	50 ppm total sulfur	BAAQMD	P/M	A9 &	Date: 9/1/23	Result:	0.01 ppm		
	Condition		digester gas treated by	Condition		A18					
	26639,		A9 and A18	26639,							
	Part 4			Part 20							
							Max. value for this r				
Heat	BAAQMD	Υ	Combined heat input	BAAQMD	P/M	S-67	Date: 3/1/23 - 2/	29/24	Result: 697	,239 MMBtu/12	-mo.
Input	Condition		1,084,974 MMBtu/	Condition		S-68					
	26639,		12-month period	17901,		S-69					
	Part 2			Part 15		S-70					
SCR	BAAQMD	Υ	Maintain exhaust gas	BAAQMD	P/M	S-67	Date: 9/9/23		Temp.:	793 °F	
Catalyst	Condition		temperature within range:	Condition			Date: 9/28/23		Temp.:	862 °F	
Temp.	26639,	-1	575°F to 960° F	26639,		S-68	Date: 9/5/23		Temp.:	784 °F	
	Part 6			Part 22			Date: 2/1/24		Temp.:	885 °F	
						S-69	Date: 9/27/23		Temp.:	781 °F	
				12			Date: 2/23/24		Temp.:	879 °F	
						S-70	Date: 2/6/24		Temp.:	789 °F	
					article and	100	Date: 2/23/24	Max.	Temp.:	883 °F	
			4.7				Min. & max. values				
	1	- 1									

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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	
H₂S	BAAQMD	Υ	1.5 ppm, outlet	BAAQMD	P/W	A-5 Date: 9/13/23	Result: 0.05 ppm	
	Condition 26312, Part 2 & 27178 Part 2			Condition 26312, Part 4 & 27178 Part 3			Result: 1.00 ppm Result: 0.61 ppm	
POC	BAAQMD Condition 26312, Part 2	Y	10 ppm, outlet	BAAQMD Condition 26312, Part 4	P/W		Result: 4.3 ppm	3 -