



CENTRAL CONTRA COSTA SANITARY DISTRICT

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July 27, 2022

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Bay Area Air Quality Management District
Attn: Title V Reports
375 Beale Street, Suite 600
San Francisco, CA 94105

TV Tracking #: 487

1. RECEIVED IN ENFORCEMENT: 07/27/2022

SUBJECT: TITLE V SEMI-ANNUAL JANUARY THROUGH JUNE 2022 AND
TITLE V SECOND QUARTER 2022 COMBINED REPORT

Dear Mr. Gove:

Central Contra Costa Sanitary District (Plant No. A0907) operates its wastewater treatment facility under a Title V Major Facility Review Permit and a Bay Area Air Quality Management District Permit-to-Operate.

The attached Title V Semi-Annual January through June 2022 and Title V Second Quarter 2022 Combined Report discusses the compliance performance of Central Contra Costa Sanitary District's permitted sources and complies with the reporting requirements contained in the Title V Major Facility Review Permit and Bay Area Air Quality Management District Regulation 2, Rule 6 requirements.

If you have any questions concerning the information in this combined report, please contact Senior Engineer Rita Cheng at rcheng@centralsan.org or 925-957-7630.

Sincerely,

Steve McDonald

Steve McDonald, P.E.
Director of Operations

Enclosures

CC: Andrew Ledezma, BAAQMD Air Quality Specialist – ALedezma@baaqmd.gov
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Mr. Jeffrey Gove
Bay Area Air Quality Management District
July 27, 2022
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**TITLE V SEMI-ANNUAL
JANUARY THROUGH JUNE 2022
AND
TITLE V SECOND QUARTER 2022
COMBINED REPORT**

January 1, 2022 through June 30, 2022

For Submittal to:

Bay Area Air Quality Management District

375 Beale Street, Suite 600

San Francisco, California 94105

Prepared by:

Central Contra Costa Sanitary District

5019 Imhoff Place

Martinez, California 94553

Plant Number A0907



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1 Introduction

1.1 Purpose

This document is a Title V Semi-Annual and Second Quarter Combined Report for the Central Contra Costa Sanitary District (Central San). This report covers the Title V compliance activities for the semi-annual period of January 1, 2022 through June 30, 2022, as well as the second quarter reporting requirements for April 1, 2022 through June 30, 2022.

Central San, Facility No. A0907, was issued a Major Facility Review Permit on January 28, 2000. A revision to the permit was issued on November 15, 2004, and a five-year renewal permit was issued on December 11, 2006. The second five-year renewal permit was issued on March 12, 2015. There was a minor revision to the Title V permit dated June 29, 2019. On August 28, 2019, Central San submitted its Major Facility Review Permit Renewal Application to the Bay Area Air Quality Management District (BAAQMD), which is currently being processed. This semi-annual report is submitted to comply with the requirements of BAAQMD, Regulation 2, Rule 6; and Title V of the Clean Air Act.

Section 2 of this report contains Title V compliance activities for the auxiliary boilers, furnaces, gasoline dispensing facility, preliminary treatment, ash conveying system, cogeneration, and additional Title V activities.

Section 3 contains the quarterly reporting requirements of sulfur content of landfill gas (LFG) used in auxiliary boilers (S-7 and S-8), total organic carbon leak testing for the LFG system, and sulfur dioxide (SO₂) emissions from both LFG and natural gas (NG) combustion.

1.2 Recordkeeping and Reporting

Records are maintained and available for inspection in accordance with BAAQMD Regulation 8-34-501.12. The primary location for records storage is Central San's internal network storage. Records are maintained at this location for a minimum of five years.

2 Title V Compliance Activities

The following sections summarize the compliance activities for January 1, 2022 through June 30, 2022.

2.1 Auxiliary Boilers No. 1 and No. 2 (S-7 and S-8)

Both auxiliary boilers (S-7 and S-8) were operated on NG and LFG during the reporting period. Neither boiler operated on fuel oil during the reporting period. The NG and LFG flow meters were operable, and the hourly data was collected and electronically archived. Neither boiler exceeded the 28 million British Thermal Unit (MMBTU)/Hour permit requirement for the reporting period.

When combusting LFG, the three-clock hour first-pass temperatures for both auxiliary boilers were above the minimum 770 degrees Fahrenheit (°F) permit limit 100 percent of the operating time during the reporting period (Appendix A). The next annual tune-up, insulation check, exhaust temperatures check, and emissions source test are tentatively scheduled for October 2022.

2.2 Furnaces No. 1 and No. 2 (S-9 and S-10)

Furnace No. 1 (S-9) operated until January 7, 2022, and Furnace No. 2 (S-10) began operation on January 5, 2022. S-9 briefly operated from January 26, 2022 to February 3, 2022 to accommodate emergency repairs for S-10's gearbox. During the current reporting period, solid fuel throughput to S-9 and S-10 did not exceed the daily combined limit of 120 dry tons/day, the daily limit of 60 dry tons/day per furnace, or the annual limit of 20,000 dry tons/365 days. Neither S-9 nor S-10 exceeded the hourly auxiliary fuel limit of 27 MMBTU/hour.

The temperature of Hearth No. 1 was above 1,000°F 100 percent of the time when S-9 or S-10 was firing on LFG. The wet scrubber pressure drop for S-9 was above the minimum of 5.9 inches water column, and that of S-10 was above the minimum of 4.7 inches water column 100 percent of the time during the reporting period (Appendix B).

The one-hour Hearth No. 2 oxygen (O₂) levels for S-9 and S-10 were below the 10 percent O₂ reporting limit for 99.98 percent and 100 percent, respectively, during the reporting period (Appendix C). S-9 opacity was below 20 percent for a period or periods aggregating more than three minutes in any hour for 100 percent of the time during the reporting period (Appendix D).

Sludge cake solids content is measured during all three work shifts each day. The volatile fraction of the cake solids is measured daily, and the volatile content varies slightly from day to day. The volatile solids content levels were below the 95 percent reporting limit for 100 percent of the reporting time (Appendix E).

Hearth temperatures lower than the following clock-hour minimums must be reported. The hearth temperature readings for S-9 and S-10 were above their minimum limits for 99.996 percent and 99.981

percent, respectively, of the reporting period. See Appendix F for a summary of hearth temperature exceedances.

Hearth Temperature Minimum Limits

- Hearth No. 1: 1,000 °F
- Hearth No. 2: 800 °F
- Hearth No. 3: 1,000 °F
- Hearth No. 4: 1,000 °F
- Hearth No. 5: 1,000 °F
- Hearth No. 6: 1,000 °F
- Hearth No. 7: 100 °F
- Hearth No. 8: 100 °F
- Hearth No. 9: 80 °F
- Hearth No. 10: 40 °F
- Hearth No. 11: 40 °F

There were no inoperative monitor incidents during the reporting period for the following parametric monitors:

- Sludge flow monitor
- Scrubber pressure drop monitor
- Oxygen monitor
- Auxiliary fuel flow monitors
- Internal afterburner (Hearth No. 1) temperature monitor
- Hearth Nos. 2-11 temperature monitors

Effective March 21, 2016, Section 129 of the Clean Air Act (Sewage Sludge Incinerator Regulations) restricts the use of the furnace exhaust bypass damper while sewage sludge is in the combustion chamber (until the end of Sewage Sludge Incinerator residence time). Exercising the bypass damper during sewage sludge combustion is a Section 129 deviation because the unabated emissions from the bypass stack may exceed one or more of the 129 emission limits in Title 40 CFR, Subpart LLL, Section 62.15955. There was one bypass event in the reporting period. The following sections summarize the Reportable Compliance Activities that were submitted to BAAQMD during the reporting period:

March 17, 2022 Furnace No. 2 Bypass Event

During a planned power switching event on March 17, 2022, there was a failure to verify which condenser cooling water pump was tied to the electrical feeder going offline. The condenser cooling water pump falling offline led to the Aeration Turbine No. 1 shutting down and subsequent fluctuations in the steam system, which were further exacerbated because the waste steam exchangers were unavailable due to the power switching event. Steam system fluctuations led to a low water cutout in Waste Heat Boiler No. 2, triggering the furnace emergency bypass damper on S-10 to open from 05:59:10 to 06:00:36 for a total duration of 1 minute and 26 seconds.

Reportable Compliance Activity (RCA) No. 08G24 was submitted to BAAQMD on the same day to report the event and request breakdown relief. A 10-day deviation notification was submitted on March 24, 2022, and BAAQMD issued Notice of Violation A61010 on March 28, 2022 for the bypass event. Central San submitted a response to the Notice of Violation to BAAQMD on April 1, 2022 and the 30-day Title V Report on April 14, 2022.

Supervising staff has had follow-up discussions with the operator involved in the March 17, 2022 power switching event, provided additional refresher training, and reminded the operator to follow and verify which equipment is tied to the electrical feeder that is coming offline before a power switching event. The operator involved in the bypass event has also received disciplinary action from his supervisor.

Central San is planning to split the power source of the two waste steam exchangers to ensure operational redundancy during future power switching events.

May 25, 2022 Furnace No. 2 Event

On May 25, 2022, Central San submitted RCA No. 08H91 to request breakdown relief for a S-10 bypass opening event on the same day for 44 seconds from 09:13:33 to 09:14:17. Although Central San concluded the bypass damper did not open on May 25, 2022, after further review, a 10-Day Deviation Notification was submitted to BAAQMD on June 3, 2022 and a 30-day Title V Report was submitted on June 24, 2022. Central San requested a retraction of RCA No. 08H91 on June 2, 2022. On June 29, 2022, BAAQMD informed Central San that there was compelling evidence that a bypass violation did not occur on May 25, 2022, and therefore, breakdown relief was not necessary.

On May 25, 2022, a failure related to the S-10 control panel power supply led to a loss of 24-volt DC power across the inputs it powered, including both bypass “damper closed” and “damper opened” statuses, during which the programmable logic controller read the bypass damper status as “moving”.

In addition, there were several indicators that collectively support the conclusion that the bypass damper did not physically open; more details are available in the 30-day letter submitted.

On May 26, 2022, Central San ceased sludge combustion temporarily to replace the power supply for the S-10 control panel as a corrective action.

2.3 Gasoline Dispensing Facility (S-25)

S-25 passed the annual static pressure integrity test (ST-38) and the annual vapor recovery inspection on May 10, 2022. TEC Accutite conducted the ST-38 testing and noted no issues during the annual test. Fuel throughput for S-25 is recorded monthly. The gasoline dispensed for the past 12 months was approximately 749 gallons (Appendix G). This is considerably less than the limit of 400,000 gallons in any consecutive 12-month period.

2.4 Preliminary Treatment (S-110, A-23, and A-24)

At all times, malodorous compounds were present at the preliminary treatment (S-110), and emissions were abated by odor control scrubbers A-23 or A-24.

Central San is required to ensure that hydrogen sulfide (H₂S) concentration in the stacks of A-23 and

A-24 do not exceed 10.0 parts per million by using a BAAQMD-approved device every calendar quarter. Quarterly H₂S monitoring results were below the H₂S limit and are summarized in Appendix H.

2.5 Ash Conveying System (S-182, A-186, A-191, A-192, and A-196)

The ash conveying system (S-182) only operated while abated by baghouses A-186, A-196; or cyclone A-191 and baghouse A-192. All abatement devices were maintained according to manufacturer's specifications. The exhaust stacks from the particulate emissions abatement systems A-186, A-196, and A-191/A-192 were visually checked for leaks at a minimum of once per day.

2.6 Cogeneration (S-188)

Cogeneration (S-188) fired only on Public Utilities Commission quality NG and did not exceed the permit fuel throughput limit of 1,188 MMBTU/day or 49.5 MMBTU/hour during the reporting period. All span and zero calibrations for the nitrogen oxides (NO_x) continuous emissions monitor system were within their respective limits when the continuous emissions monitor system was in operation. NO_x emissions from S-188 did not exceed the following maximum limits:

- Three-clock hour average of 42 parts per million volumetric dry (ppmvd) at 15 percent O₂
- Clock-hour average of 167 ppmvd at 15 percent O₂
- 118 pounds of NO_x per any rolling consecutive 24-hour period
- 19.834 tons of NO_x per any rolling 365 consecutive day period

In March 2021, Central San replaced the carbon monoxide (CO) catalyst element in-kind and conducted source testing for formaldehyde (per Permit-to-Operate Condition 21485, Part 9c) and CO (Notice of Source Test-6415). Central San returned to monthly CO monitoring per Permit-to-Operate Condition 21485, Part 9b, for 13 months, including the month of catalyst installation. CO monitoring continued on a quarterly basis thereafter since the estimated CO mass emissions were below 118 pounds/day on each monitoring day during the monthly monitoring. If CO emissions are estimated at more than 118 pounds/day on any day after starting quarterly monitoring, Central San must perform monitoring on a monthly basis until emissions are less than 118 pounds/day for three consecutive months. The estimated CO mass emissions were below 118 pounds/day on each monitoring day in the reporting period (Appendix I).

RCA No. 08H00 was submitted to BAAQMD on April 16, 2022 for an inoperative NO_x monitor due to annual preventative maintenance on the monitor. A notice of resumption for RCA No. 08H00 was submitted to BAAQMD on April 25, 2022. While the NO_x monitor was inoperative, the injection water-to-fuel ratio served as a parametric monitor for NO_x emissions compliance.

2.7 Sludge Loading Facility (S-197)

S-197 is a Sludge Loading Facility designed for use if S-9 and S-10 are not operational. It is an enclosed building with an odor control system (A-199). S-197 is allowed 100 run hours annually for maintenance and testing. S-197 was not operated during the reporting period.

3 Second Quarter 2022 Reporting Requirements

The following sections satisfy the second quarter reporting requirements pursuant to Permit-to-Operate Condition 21422, Part 2, Condition 21485, Part 8, BAAQMD 8-39-503, and BAAQMD 8-34-503.

3.1 Sulfur Dioxide Concentration from Landfill Gas Combustion

The maximum LFG H₂S concentration was 25.0 ppmv during the second quarter period. Based on this H₂S concentration, the estimated maximum exhaust gas SO₂ concentration from the auxiliary boilers and furnaces was 5.1 ppmvd. This concentration is significantly lower than the permit limit of 300 ppmvd. Quarterly SO₂ concentration readings from LFG combustion are included in Appendix J.

3.2 Sulfur Dioxide Concentration from Natural Gas Combustion

The maximum SO₂ emissions from the combustion of NG are based on the maximum total sulfur content of 0.30 grains total sulfur per 100 standard cubic feet from Pacific Gas and Electric, published “Rule 21 – Transportation of Natural Gas, Section C, Quality of Gas” for the second quarter of 2022.

While combusting NG, the maximum SO₂ concentration in the stack gas from the auxiliary boilers, furnaces, and cogeneration during the reporting period was 0.55 ppmvd SO₂, which is well below the permit limit of 300 ppmvd SO₂. Quarterly SO₂ concentration readings from NG combustion are included in Appendix J.

3.3 Total Organic Carbon Leaks – Landfill Gas System

The LFG piping from the landfill to Central San’s point of delivery was tested for leaks on June 23, 2022. There were no leaks in excess of the 1,000 ppmv as methane limit in BAAQMD Regulation 8, Rule 34.

The LFG piping from Central San’s point of delivery to the permitted sources was tested for leaking components on June 3, 2022. There were no leaks in excess of the 1,000 ppmv as methane limit in BAAQMD Regulation 8, Rule 34.

Quarterly total organic carbon leaks data are presented in Appendix K.

I certify the following:

This completes the Title V reporting requirements for the semi-annual period of January 1, 2022 through June 30, 2022, as well as the second quarter period of April 1, 2022 through June 30, 2022. To the best of my knowledge, the information contained herein is true and accurate.

Steve McDonald

7/22/2022

**Steve McDonald, P.E.
Director of Operations**

Date

APPENDIX A

Central Contra Costa Sanitary District, Plant No. A0907

Auxiliary Boilers Three-Clock Hour First Pass Minimum Temperature Monitoring Summary

January 1, 2022 through June 30, 2022

Auxiliary Boiler No. 1 (S-7) Three-Clock Hour First Pass Minimum Temperature					
Month	Excursion Start Date/Time	Excursion End Date/Time	Duration (Hours)	Duration Above Limit (% of Total Available Hours in the Month)	Comments
January			0.00	100.00%	No exceedances
February			0.00	100.00%	No exceedances
March			0.00	100.00%	No exceedances
April			0.00	100.00%	No exceedances
May			0.00	100.00%	No exceedances
June			0.00	100.00%	No exceedances

Total Exceedances (Hours): 0.00**Total Above Limit Hours (% of Total Available Hours):** 100.00%

Auxiliary Boiler No. 2 (S-8) Three-Clock Hour First Pass Minimum Temperature					
Month	Excursion Start Date/Time	Excursion End Date/Time	Duration (Hours)	Duration Above Limit (% of Total Available Hours in the Month)	Comments
January			0.00	100.00%	No exceedances
February			0.00	100.00%	No exceedances
March			0.00	100.00%	No exceedances
April			0.00	100.00%	No exceedances
May			0.00	100.00%	No exceedances
June			0.00	100.00%	No exceedances

Total Exceedances (Hours): 0.00**Total Above Limit Hours (% of Total Available Hours):** 100.00%

APPENDIX B

Central Contra Costa Sanitary District, Plant No. A0907

Furnaces Wet Scrubber Minimum Pressure Drop Monitoring Summary

January 1, 2022 through June 30, 2022

Furnace No. 1 (S-9) Wet Scrubber Minimum Pressure Drop, Minimum 15-Minute Limit: 5.9" WC					
Month	Excursion Start Date/Time	Excursion End Date/Time	Duration (Hours)	Duration Above Limit (% of Total Available Hours in the Month)	Comments
January			0.00	100.00%	No exceedances
February			0.00	100.00%	No exceedances
March			0.00	100.00%	S-9 offline
April			0.00	100.00%	S-9 offline
May			0.00	100.00%	S-9 offline
June			0.00	100.00%	S-9 offline

Total Exceedances (Hours): 0.00

Total Above Limit Hours (% of Total Available Hours): 100.00%

Furnace No. 2 (S-10) Wet Scrubber Minimum Pressure Drop, Minimum 15-Minute Limit: 4.7" WC					
Month	Excursion Start Date/Time	Excursion End Date/Time	Duration (Hours)	Duration Above Limit (% of Total Available Hours in the Month)	Comments
January			0.00	100.00%	No exceedances
February			0.00	100.00%	No exceedances
March			0.00	100.00%	No exceedances
April			0.00	100.00%	No exceedances
May			0.00	100.00%	No exceedances
June			0.00	100.00%	No exceedances

Total Exceedances (Hours): 0.00

Total Above Limit Hours (% of Total Available Hours): 100.00%

APPENDIX C

Central Contra Costa Sanitary District, Plant No. A0907

Furnaces Oxygen Monitoring Summary

January 1, 2022 through June 30, 2022

Furnace No. 1 (S-9) Oxygen, Maximum Hour Limit: 10%					
Month	Excursion Start Date/Time	Excursion End Date/Time	Duration (Hours)	Duration Below Limit (% of Total Available Hours in the Month)	Comments
January	1/26/2022 9:00	1/26/2022 10:00	1.00	99.87%	
February			0.00	100.00%	No excursions
March			0.00	100.00%	S-9 offline
April			0.00	100.00%	S-9 offline
May			0.00	100.00%	S-9 offline
June			0.00	100.00%	S-9 offline

Total Excursions (Hours): 1.00**Total Below Limit Hours (% of Total Available Hours):** 99.98%

Furnace No. 2 (S-10) Oxygen, Maximum Hour Limit: 10%					
Month	Excursion Start Date/Time	Excursion End Date/Time	Duration (Hours)	Duration Below Limit (% of Total Available Hours in the Month)	Comments
January			0.00	100.00%	No excursions
February			0.00	100.00%	No excursions
March			0.00	100.00%	No excursions
April			0.00	100.00%	No excursions
May			0.00	100.00%	No excursions
June			0.00	100.00%	No excursions

Total Excursions (Hours): 0.00**Total Below Limit Hours (% of Total Available Hours):** 100.00%

APPENDIX D

Central Contra Costa Sanitary District, Plant No. A0907

Furnaces Opacity Monitoring Summary

January 1, 2022 through June 30, 2022

Furnace No. 1 (S-9) Opacity, Maximum Limit: 3 minutes in a 60-minute period with Opacity > 20%					
Month	Excursion Start Date/Time	Excursion End Date/Time	Duration (Hours)	Duration Below Limit (% of Total Available Hours in the Month)	Comments
January			0.00	100.00%	No exceedances
February			0.00	100.00%	No exceedances
March			0.00	100.00%	S-9 offline
April			0.00	100.00%	S-9 offline
May			0.00	100.00%	S-9 offline
June			0.00	100.00%	S-9 offline

Total Exceedances (Hours): 0.00

Total Below Limit Hours (% of Total Available Hours): 100.00%

Furnace No. 2 (S-10) Opacity, Maximum Limit: 3 minutes in a 60-minute period with Opacity > 20%					
Month	Excursion Start Date/Time	Excursion End Date/Time	Duration (Hours)	Duration Below Limit (% of Total Available Hours in the Month)	Comments
January			0.00	100.00%	No exceedances
February			0.00	100.00%	No exceedances
March			0.00	100.00%	No exceedances
April			0.00	100.00%	No exceedances
May			0.00	100.00%	No exceedances
June			0.00	100.00%	No exceedances

Total Exceedances (Hours): 0.00

Total Below Limit Hours (% of Total Available Hours): 100.00%

APPENDIX E

Central Contra Costa Sanitary District, Plant No. A0907

Sludge Volatile Content Monitoring Summary

January 1, 2022 through June 30, 2022

Sludge Volatile Content, Maximum Daily Limit: 95%					
Month	Excursion Start Date	Excursion End Date	Duration (Days)	Duration Below Limit (% of Total Available Days in the Month)	Comments
January			0	100.00%	No excursions
February			0	100.00%	No excursions
March			0	100.00%	No excursions
April			0	100.00%	No excursions
May			0	100.00%	No excursions
June			0	100.00%	No excursions

Total Excursions (Days):

0

Total Below Limit Hours (% of Total Available Days):

100.00%

APPENDIX F

Central Contra Costa Sanitary District, Plant No. A0907

Furnaces Hearth Temperature Monitoring Summary

January 1, 2022 through June 30, 2022

Furnace No. 1 (S-9) Hearth Temperatures						
Month	Excursion Start Date/Time	Excursion End Date/Time	Hearth	Duration (Hours)	Duration Above Limit (% of Total Available Hours in the Month)	Comments
January	1/5/2022 14:00	1/5/2022 15:00	6	1.00	99.99%	
February	2/3/2022 9:00	2/3/2022 10:00	6	1.00	99.99%	
March				0.00	100.00%	S-9 offline
April				0.00	100.00%	S-9 offline
May				0.00	100.00%	S-9 offline
June				0.00	100.00%	S-9 offline

Total Excursions (Hours):

2.00

Total Above Limit Hours (% of Total Available Hours):

99.996%

Furnace No. 2 (S-10) Hearth Temperatures						
Month	Excursion Start Date/Time	Excursion End Date/Time	Hearth	Duration (Hours)	Duration Above Limit (% of Total Available Hours in the Month)	Comments
January	1/26/2022 9:00	1/26/2022 11:00	6	2.00	99.98%	
February				0.00	100.00%	No excursions
March	3/26/2022 11:00	3/26/2022 13:00	6	2.00	99.98%	
April	4/28/2022 9:00	4/28/2022 10:00	6	1.00	99.96%	
	4/28/2022 13:00	4/28/2022 15:00	6	2.00		
May	5/25/2022 8:00	5/25/2022 9:00	6	1.00	99.99%	
June	6/19/2022 8:00	6/19/2022 9:00	6	1.00	99.99%	

Total Excursions (Hours):

9.00

Total Above Limit Hours (% of Total Available Hours):

99.981%

APPENDIX G

Central Contra Costa Sanitary District, Plant No. A0907

Gasoline Dispensing Facility Gasoline Meter Readings Summary

January 1, 2022 through June 30, 2022

Month	Gasoline Meter Readings (gallons)	Quarterly Total (gallons)	12-month Total (gallons)
Start (Jun-21)	869.0		
Jul-21	950.1	237	749
Aug-21	1,047.6		
Sep-21	1,105.9		
Oct-21	1,195.3	138	
Nov-21	1,228.1		
Dec-21	1,243.8		
Jan-22	1,315.7	233	
Feb-22	1,459.3		
Mar-22	1,476.8		
Apr-22	1,553.4	141	
May-22	1,599.6		
Jun-22	1,618.1		

BAAQMD Consecutive 12-month Maximum Limit: 400,000

APPENDIX H

Central Contra Costa Sanitary District, Plant No. A0907
Preliminary Treatment Hydrogen Sulfide Monitoring Summary
January 1, 2022 through June 30, 2022

Monitoring Date	Quarter	OCU E (A-23) H2S, ppm	OCU W (A-24) H2S, ppm
January 19, 2022	Q1	0.00	0.00
April 13, 2022	Q2	0.32	0.23

Permit Limit:

10.0

APPENDIX I

Central Contra Costa Sanitary District, Plant No. A0907
Cogeneration Carbon Monoxide Monitoring Summary
January 1, 2022 through June 30, 2022

Monitoring Date	Quarter	Cogen NG Flow (kcf/d)	CO Concentration (ppm)	O2 Concentration (%)	CO Mass Emissions (lb/day)
January 18, 2022	Q1	956	16.2	16.8	52.0
February 8, 2022	Q1	915	15.9	17.0	52.1
March 9, 2022	Q1	923	16.0	17.0	52.3
April 5, 2022	Q2	900	16.4	17.0	53.1

BAAQMD Monitoring Limit: 118.0

Permit Limit: 157.0

Note:

The CO catalyst on S-188 was replaced in-kind 3/17/2021, S-188 was operational 3/18/2021. Monthly monitoring was conducted for 13 months, including the month of catalyst installation. Per PTO Condition 21485(9b), CO monitoring continued on a quarterly basis thereafter since CO emissions were less than 118 lb/day for 12 consecutive months.

APPENDIX J

Central Contra Costa Sanitary District, Plant No. A0907

SO₂ Concentration Summary from Landfill Gas and Natural Gas Combustion

January 1, 2022 through June 30, 2022

SO ₂ Concentration from Landfill Gas Combustion					
Month	HHV (BTU/scf)	H ₂ S Concentration (ppm) ¹	Quarterly Average HHV (BTU/scf)	Quarterly Max H ₂ S Concentration (ppm)	Max SO ₂ Discharge from LFG Combustion in Boilers and MHFs @ 0% O ₂ (ppm)
January	528	35.0	526	35.0	7.1
February	519	25.0			
March	530	20.0			
April	530	24.0	517	25.0	5.1
May	502	25.0			
June	519	18.0			

F-factor for LFG (scf exhaust/BTU): 0.00943

Limit: 300 ppm

SO ₂ Concentration from Natural Gas Combustion			
Quarter	Most Recent Total Sulfur Maximum (gr/100 scf) ²	Average Weekly Heating Value (J15) (BTU)	Max SO ₂ Discharge from NG Combustion in Boilers, MHFs, and Cogen @ 0% O ₂ (ppm)
First	0.28	1,038	0.51
Second	0.30	1,040	0.55

F-factor for NG (scf exhaust/BTU): 0.00871

Limit: 300 ppm

Notes:

1) Monthly H₂S concentration measurements provided by Field Solutions, Inc.

2) Source: https://www.pge.com/pipeline/operations/sulfur/sulfur_info_values/index.page

APPENDIX K

Central Contra Costa Sanitary District, Plant No. A0907

Total Organic Carbon Leak Checks Summary - Landfill Gas System

January 1, 2022 through June 30, 2022

Landfill Gas System at Central San		
Quarter	Date of Leak Check	No. of Leaks >1000 ppm Detected and Repaired
First	3/2/2022	0
Second	6/3/2022	0

Landfill Gas Delivery System Operated by Acme Landfill		
Quarter	Date of Leak Check	No. of Leaks >1000 ppm Detected and Repaired
First	3/30/2022	0
Second	6/23/2022	0


Certificate Of Completion

Envelope Id: 3853F649432743CAA7FB0DD7FDC45220	Status: Completed
Subject: Please DocuSign: 2022 Title V 2nd Quarter Report and Semi-Annual Combined Report	
Source Envelope:	
Document Pages: 23	Signatures: 2
Certificate Pages: 5	Initials: 5
AutoNav: Enabled	Envelope Originator:
Envelopeld Stamping: Disabled	Jason Sweet
Time Zone: (UTC-08:00) Pacific Time (US & Canada)	5019 Imhoff Place
	Martinez, CA 94553-4392
	jsweet@centralsan.org
	IP Address: 12.86.194.210


Record Tracking

Status: Original	Holder: Jason Sweet	Location: DocuSign
7/21/2022 9:43:36 AM	jsweet@centralsan.org	
Security Appliance Status: Connected	Pool: StateLocal	
Storage Appliance Status: Connected	Pool: Central Contra Costa Sanitary District	Location: DocuSign


Signer Events

Signer Events	Signature	Timestamp
Khang Nguyen knguyen@centralsan.org Assistant Engineer Security Level: Email, Account Authentication (None)	 Signature Adoption: Uploaded Signature Image Using IP Address: 76.14.58.43	Sent: 7/21/2022 9:46:44 AM Viewed: 7/21/2022 9:47:10 AM Signed: 7/21/2022 9:47:29 AM


Electronic Record and Signature Disclosure:
Accepted: 7/24/2018 2:16:32 PM
ID: 89a2cbeb-cfa6-486b-af9d-747e1d2a7758

Rita Cheng rcheng@centralsan.org Associate Engineer CCCSD Security Level: Email, Account Authentication (None)	 Signature Adoption: Uploaded Signature Image Using IP Address: 66.234.212.170	Sent: 7/21/2022 9:47:30 AM Viewed: 7/21/2022 10:37:38 AM Signed: 7/21/2022 10:39:34 AM
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Electronic Record and Signature Disclosure:
Accepted: 6/5/2018 4:37:55 PM
ID: a91dc6ad-104d-4317-9658-d64ed7368b87

Lori Schectel lschectel@centralsan.org Envtl&Reg Compliance Div Manager Security Level: Email, Account Authentication (None)	 Signature Adoption: Pre-selected Style Using IP Address: 67.188.203.93	Sent: 7/21/2022 10:39:36 AM Viewed: 7/22/2022 11:49:51 AM Signed: 7/22/2022 11:51:02 AM
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Electronic Record and Signature Disclosure:
Accepted: 7/22/2022 11:49:51 AM
ID: 3511b79a-1f6f-4e5b-840e-02c7e68d4c4d

Alan Weer aweer@centralsan.org Plant Ops. Div. Manager Security Level: Email, Account Authentication (None)	 Signature Adoption: Pre-selected Style Using IP Address: 12.86.194.210	Sent: 7/22/2022 11:51:04 AM Viewed: 7/22/2022 1:26:05 PM Signed: 7/22/2022 1:26:12 PM
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Electronic Record and Signature Disclosure:

Signer Events	Signature	Timestamp
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ID: b22b50b4-fb2d-4147-83b1-35af9af5d905

Jean-Marc Petit
jmpetit@centralsan.org
Director of Engineering
Security Level: Email, Account Authentication (None)



Signature Adoption: Pre-selected Style
Using IP Address: 174.194.201.96
Signed using mobile

Sent: 7/22/2022 1:26:13 PM
Viewed: 7/22/2022 2:26:47 PM
Signed: 7/22/2022 2:27:13 PM

Electronic Record and Signature Disclosure:

Accepted: 9/11/2018 8:30:53 AM
ID: adaf246f-509c-4373-9b01-fb59f68973bd

Steve McDonald
smcdonald@centralsan.org
Director of Operations
Security Level: Email, Account Authentication (None)



Signature Adoption: Pre-selected Style
Using IP Address: 67.188.219.105

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Viewed: 7/22/2022 4:14:24 PM
Signed: 7/22/2022 4:14:38 PM

Electronic Record and Signature Disclosure:

Accepted: 7/22/2022 4:14:24 PM
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In Person Signer Events	Signature	Timestamp
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Editor Delivery Events	Status	Timestamp
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Agent Delivery Events	Status	Timestamp
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Intermediary Delivery Events	Status	Timestamp
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Certified Delivery Events	Status	Timestamp
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Carbon Copy Events	Status	Timestamp
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Witness Events	Signature	Timestamp
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Notary Events	Signature	Timestamp
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Envelope Summary Events	Status	Timestamps
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Certified Delivered	Security Checked	7/22/2022 4:14:24 PM
Signing Complete	Security Checked	7/22/2022 4:14:38 PM
Completed	Security Checked	7/22/2022 4:14:38 PM

Payment Events	Status	Timestamps
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Electronic Record and Signature Disclosure
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