

#### **CENTRAL CONTRA COSTA SANITARY DISTRICT**

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January 31, 2022

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Mr. Jeffrey Gove

Director of Compliance and Enforcement

Bay Area Air Quality Management District TV Tracking #: 388 (Annual)

KATIE YOUNG Secretary of the District

Attn: Title V Reports

375 Beale Street, Suite 600 San Francisco, CA 94105 1. D RECEIVED IN 01/31/2022 ENFORCEMENT:

TV Tracking #: 387 (Semi-Annual)

SUBJECT: 2021 TITLE V ANNUAL, JULY THROUGH DECEMBER 2021

SEMI-ANNUAL, AND FOURTH QUARTER 2021 COMBINED REPORT FOR BAY AREA AIR QUALITY MANAGEMENT DISTRICT FACILITY NO. A0907

Dear Mr. Gove:

Central Contra Costa Sanitary District's Wastewater Treatment Plant (Facility No. A0907) is regulated by a United States Environmental Protection Agency Title V Major Facility Review Permit and a Bay Area Air Quality Management District Permit-to-Operate. The attached 2021 Title V Annual, July through December 2021 Semi-Annual, and Fourth Quarter 2021 Combined Report meets the requirements for the Title V Major Facility Review Permit and Bay Area Air Quality Management District Regulation 2, Rule 6.

If you have any questions concerning the information in this annual report, please contact Environmental and Regulatory Compliance Division Manager Lori Schectel at (925) 229-7143 or <a href="mailto:lschectel@centralsan.org">lschectel@centralsan.org</a>.

Sincerely,

Steve McDonald

Steve McDonald, P.E. Director of Operations

**Enclosures** 

Cc: Mariel Adler-McAllister – MAdlerMcAllister@baaqmd.gov

Mr. Jeffrey Gove Bay Area Air Quality Management District January 31, 2022 Page 2

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# 2021 TITLE V ANNUAL, JULY THROUGH DECEMBER 2021 SEMI-ANNUAL, AND FOURTH QUARTER 2021 COMBINED REPORT

January 1, 2021 through December 31, 2021

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 Annual, Semi-Annual, and Fourth Quarter Combined Report for the Central Contra Costa Sanitary District (Central San). This report covers the Title V compliance activities for the annual period of January 1, 2021 through December 31, 2021, reporting requirements for the semi-annual period of July 1, 2021 through December 31, 2021, as well as the fourth quarter reporting requirements for October 1, 2021 through December 31, 2021.

Central San, Facility No. A0907, was issued its first Major Facility Review Permit on January 7, 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. Central San submitted a Major Facility Review Application dated September 3, 2019 and paid the invoice on December 4, 2019 for permit renewal. This report is submitted to comply with the requirements of Bay Area Air Quality Management District (BAAQMD), Regulation 2, Rule 6, and Title V of the Clean Air Act.

Section 2 of this report contains Title V compliance activities for Auxiliary Boilers (S-7 and S-8), Furnaces (S-9 and S-10), Cogeneration (S-188), the remaining BAAQMD permitted sources, and additional Title V activities.

Section 3 contains the quarterly reporting requirements of sulfur content of landfill gas (LFG), total organic carbon leak testing for the LFG System, and sulfur dioxide (SO<sub>2</sub>) 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 inside the Treatment Plant's Operations Office at Central San. 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, 2021 through December 31, 2021.

#### 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 S-7 nor S-8 operated on fuel oil during the reporting period. The flow meters for LFG and NG were fully operational and the hourly data was collected and electronically archived, with the exception of an inoperative LFG flow meter on S-8. More details are available in the Furnaces section below (2.2) detailing Reportable Compliance Activities (RCAs) and permit deviations submitted to BAAQMD. Neither boiler exceeded the 28 million British thermal unit (MMBTU)/hour permit limit for the reporting period.

Table 1: 2021 Auxiliary Boilers Fuel Oil Usage							
Hours of Testing Hours of NG Curtailment Fuel Consumed (							
Auxiliary Boiler No. 1 (S-7)	0	0	0				
Auxiliary Boiler No. 2 (S-8)	0	0	0				
Limit	48	168	-				

When operating on 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 C).

The annual source test for S-7 (NST-6869) and S-8 (NST-6870) was conducted on October 20-21, 2021 and the final report was submitted to BAAQMD electronically on November 29, 2021. All emissions complied with the applicable permit conditions. The maximum stack temperatures measured during the source testing was 317 °F for S-7 and 304 °F for S-8, both in compliance with the maximum limit of 466 °F.

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

Furnace No. 1 (S-9) started its operation on October 14, 2020 and was in operation for the entire reporting period. Furnace No. 2 (S-10) did not operate in 2021. The solid fuel throughput to both 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 combined limit of 20,000 dry tons/365 days. The total 12-month cumulative solid fuel throughput to S-9 during the reporting period was 16,087 dry tons. S-9 did not exceed the hourly auxiliary fuel limit of 27 MMBTU/hour per furnace.

Sludge cake solids content is measured during all three work shifts daily. The volatile fraction of the cake solids is measured once daily, and the volatile content varies slightly from day-to-day. The volatile solids content did not exceed 95 percent during the reporting period.

The wet scrubber pressure drop for S-9 was above the minimum limit of 5.9 inches of water column 100 percent of the time during the reporting period (Appendix D).

The one-hour Hearth No. 2 oxygen ( $O_2$ ) measurements for S-9 were below the 10 percent  $O_2$  maximum limit for 100 percent of the reporting time (Appendix E). The total hydrocarbon emissions were well below the limit of 100 ppm corrected to 7 percent  $O_2$ .

The opacity measurements for S-9 were in compliance for 99.998 percent of the reporting time (Appendix F). More details on the opacity excursion on October 24, 2021 are available in the section below detailing RCAs and permit deviations submitted to BAAQMD.

Hearth temperatures lower than the following clock-hour minimums must be reported. The hearth temperature readings for S-9 were above their minimum limits for 99.67 percent of the reporting period (Appendix G).

#### **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

Inoperative monitor incidents that exceed more than 24 hours shall be reported to BAAQMD. There were no inoperative monitor incidents during the reporting period for the following parametric monitors:

#### **Parametric Monitors**

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

On October 20-22, 2020, Montrose Air Quality Services, LLC (Montrose) conducted annual emissions testing on S-9 on behalf of Central San (NST-6178) for SO<sub>2</sub>, non-methane organic carbon, and pollutants regulated under Clean Air Act Section 129 (129) Sewage Sludge Incinerator (SSI) regulations. This test was the most recent annual compliance test. Emission results were below their respective limits and were submitted to BAAQMD electronically on December 3, 2020 and the United States Environmental Protection Agency (USEPA) on December 17, 2020.

In March 2021, Montrose conducted additional 129 SSI compliance testing (NST-6381) to evaluate process parameters at the request of USEPA. All emission results were below their respective limits, with the exception of hydrochloric acid (HCl) emissions measured during a low feed condition while firing on NG, which is not indicative of typical operation. Emission results were submitted to BAAQMD and USEPA electronically on May 11, 2021.

A qualified SSI Operator was available at all times during S-9 and S-10 operation. All SSI Operators completed an annual review course for 129 SSI operator qualification in 2021.

The annual air pollution control device inspection for the dry cyclone scrubber (A-1) and wet scrubber (A-2) on S-9, was completed in August 2020 before bringing the unit back online. The equipment was operating properly and was in generally good operating condition. S-10 was offline for the entirety of 2021 after being shut down in October 2020 for annual maintenance. The annual air pollution control device inspection for the dry cyclone scrubber (A-3) and wet scrubber (A-4) on S-10 was completed in August 2021 to prepare for S-10 being brought online. For A-4, ash buildup in the pre-quench section was removed and the spray nozzles were cleaned during a routine inspection. The equipment was operating properly and was in generally good operating condition.

The following sections summarize the RCAs and permit deviations that were submitted to BAAQMD during the reporting period:

#### March 25, 2021 Inoperative Cogeneration Oxides of Nitrogen (NO<sub>x</sub>) Monitor (RCA 07Y82)

On March 25, 2021, Central San submitted RCA 07Y82 to report that the  $NO_x$  monitor on S-188 was inoperative because the monitor was unresponsive after a power cycle. The inoperative period officially began on March 25, 2021 at 13:00. Central San provided proof of expedited repair in an email to BAAQMD on April 8, 2021. On April 9, 2021, the  $NO_x$  monitor was placed back in service at 14:30 and a notice of resumption was emailed to BAAQMD.

#### May 16, 2021 Auxiliary Boiler No. 2 Landfill Gas Flowmeter (RCA 07Z65)

On May 20, 2021, Central San submitted RCA 07Z65 for an inoperative LFG flowmeter on S-8. At 22:02 on May 15, 2021, the S-8 LFG flow meter started reporting values when LFG was not being sent to S-8, indicating an inoperative flow meter. Aside from approximately 30 minutes on May 17, 2021, LFG was not sent to S-8 during this time. The meter was removed from service for repairs and the S-8 LFG valve was closed on May 20, 2021. As monitors that are inoperative for more than 24 hours must be reported, the official start time of the S-8 LFG flowmeter inoperative period was 22:02 on May 16, 2021. Central San provided proof of expedited repair in an email to BAAQMD on June 1, 2021. On June 22, 2021, the flowmeter was back in service at 08:00 and a notice of resumption was emailed to BAAQMD.

#### May 19, 2021 Furnace No. 1 Emergency Bypass Damper

On May 19, 2021, a fire in a nearby residential neighborhood de-energized PG&E lines feeding the Central San's treatment plant and caused a loss of PG&E import power at the plant. The sudden loss generated power fluctuations and caused multiple pieces of equipment to fall offline, including both second stage wet scrubber pumps on A-2 on S-9. To protect equipment and ensure worker safety, control logic automatically turned off the induced draft fan and triggered the bypass damper to open from 14:18:36 to 14:21:29 for a duration of 2 minutes and 53 seconds. As RCAs are not required for furnace bypass events, the 10-Day Deviation Report was submitted to BAAQMD on May 27, 2021 and the 30-Day Title V Report was submitted to BAAQMD on June 17, 2021. BAAQMD issued NOV A60411 for the violation of 129 emission limits on June 29, 2021.

#### October 24, 2021 Furnace No. 1 Opacity (RCA 08C66)

On October 25, 2021, Central San submitted RCA 08C66 for an opacity excursion on S-9. On October 24, 2021, Central San's treatment plant experienced a high load of inorganic material known as grit in its wastewater influent due to an unprecedented "atmospheric river" storm. The excess grit caused unstable combustion conditions and limited operator responses to reduce opacity led to opacity at P-9 exceeding 20 percent from 22:52 to 23:49 for an aggregated total of 12 minutes and 20 seconds within a 60-minute period. The 10-Day Deviation Report was submitted to BAAQMD on November 3, 2021 and the 30-Day Title V Report was submitted to BAAQMD on November 23, 2021.

## 2.3 Centrifuge and Cake Hoppers (S-24, A-14, and A-15)

During the reporting period, centrifuges and cake hoppers (S-24) only operated while abated by packed bed scrubbers A-14 or A-15.

## 2.4 Gasoline Dispensing Facility (S-25)

Throughput for the Gasoline Dispensing Facility is recorded monthly. The gasoline dispensed for the past 12 months was approximately 722 gallons (Appendix H). The maximum consecutive 12-month total during the reporting period was 791 gallons, which is significantly less than the limit of 400,000 gallons in any consecutive 12-month period. On May 6, 2021, Reinholdt Engineering Construction conducted the annual static pressure test according to the requirements in BAAQMD ST-27 and ARB Executive Order VR-402, Test Procedure TP 206.3. No issues were noted during the annual test.

#### 2.5 Wastewater Treatment Plant (S-100)

The wastewater flow into Central San's Treatment Plant did not exceed 53.8 million gallons per day on a calendar month average during dry weather periods or 140 million gallons per day on a calendar month average during wet weather periods.

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

The preliminary treatment (S-110) only operated when being abated by odor control scrubbers A-23 or A-24 at all times that malodorous compounds were present.

Permit-to-Operate Condition No. 7124 requires Central San to ensure that hydrogen sulfide (H₂S) concentration in the stacks of A-23 and A-24 do not exceed 10.0 ppm by using a BAAQMD-approved device every calendar quarter. Quarterly H₂S monitoring results are summarized in Table 2.

Table 2: A-23 and A-24 H₂S Monitoring Results							
Quarter	Monitoring Date	OCU East (A-23) H <sub>2</sub> S, ppm	OCU West (A-24) H₂S, ppm				
1	01/14/2021	0.13	0.26				
2	04/01/2021	0.00	0.00				
3	07/15/2021	0.20	0.03				
4	10/19/2021	0.00	0.14				
	H <sub>2</sub> S Limit	10	ррт				

## 2.7 Primary Treatment (S-120 and A-120)

Odor control scrubber A-120 abated emissions from primary treatment (S-120) at all times that malodorous compounds were present.

# 2.8 Dissolved Air Flotation Units and Sludge Blending Tanks (S-180, A-14, A-15, and A-187)

Dissolved Air Flotation Units and Sludge Blending Tanks (S-180) only operated while abated by packed bed scrubbers A-14 or A-15 and scrubber A-187 at all times that malodorous compounds were present.

## 2.9 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.

## 2.10 Cogeneration (S-188)

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.  $NO_x$  emissions from S-188 did not exceed the following maximum limits:

- Clock-hour average of 167 ppmvd at 15 percent O<sub>2</sub>
- Three-clock hour average of 42 ppmvd at 15 percent O<sub>2</sub>
- 118 pounds of NO<sub>x</sub> per any rolling consecutive 24-hour period
- 19.834 tons of NO<sub>x</sub> per any rolling 365 consecutive day period

All span and zero calibrations for the  $NO_x$  continuous emission monitoring system were within their respective limits when the continuous emission monitoring system was in operation. Central San submitted one RCA for an inoperative  $NO_x$  monitor for an unresponsive monitor after a power cycle. More details are available in the Furnaces section above detailing RCAs and permit deviations submitted to BAAQMD.

The NG flow monitor and water injection monitor were properly operated. The water-to-fuel ratio was calculated on a clock-hour basis and the heat input was calculated on a daily basis.

In March 2021, the carbon monoxide (CO) catalyst on S-188 was replaced with an identical component. A compliance source test was conducted on March 31, 2021 (NST-6415) to measure formaldehyde mass emissions and demonstrate annual compliance with the CO limits. The measured CO emissions averaged 36 pounds per day and demonstrated compliance with the following CO limits:

- 157 pounds per rolling 24-hour period
- 26.376 tons per rolling 365-day consecutive period

After the installation of the CO catalyst, the monitoring frequency for CO emissions increased from quarterly to monthly. CO emissions must be monitored for 30 continuous minutes and Central San must estimate the corresponding CO mass emissions in pounds per day. If CO emissions are estimated at more than 118 pounds per day, Central San must take corrective action to lower the CO emissions within five business days and re-monitor. Per the S-188 permit condition, Central San may reduce the monitoring frequency from monthly to quarterly if CO emissions are estimated at less than 118 pounds/day for 12 consecutive months. Central San plans to return to quarterly monitoring starting in the second quarter of 2022 if monthly CO emissions remain below 118 pounds/day.

CO emissions from S-188 were less than 118 pounds/day for the entire reporting period. CO monitoring results during the reporting period are summarized in Table 3.

		Table 3: S-1	88 CO Monitoring R	esults	
Quarter/ Month	Cogen NG Flow (kcfd)	CO Concentration (ppm)	O <sub>2</sub> Concentration (%)	CO Mass Emissions (lb/day)	Sample Date
Q1	940	22.43	16.91	73.20	01/13/21
March	906	12.84	17.14	42.83	03/22/21
April	872	13.10	17.21	42.95	04/14/21
May	914	13.62	17.01	44.40	05/06/21
June	921	13.57	16.84	42.72	06/15/21
July	877	15.76	17.05	49.77	07/14/21
August	974	16.73	16.47	51.05	08/20/21
September	918	14.45	16.81	44.99	09/23/21
October	937	14.74	16.89	47.77	10/19/21
November	909	16.51	17.19	56.16	11/19/21
December	1,037	16.99	16.50	55.55	12/22/21
			Monitoring Limit: Permit Limit:	118.00 lb/day 157.00 lb/day	

#### 2.11 Emergency Standby Generators (S-195, S-196, A-1195, and A-1196)

The permit limits the testing and maintenance run-time of S-195 and S-196 to 100 hours each per calendar year. In 2021, S-195 was operated for 5 hours for testing and maintenance and S-196 was operated for 11 hours for testing and maintenance.

S-195 and S-196 only operated when the particulate trap/catalyzed diesel particulate filters (A-1195 and A-1196) were in place. A-1195 and A-1196 have not exceeded 2,000 hours of operation without cleaning. The non-resettable totalizing meters on each generator that measure the hours of operation were properly maintained. Maintenance records for S-195 and S-196 are available upon request.

#### 2.12 Sludge Loading Facility (S-197)

S-197 is a Sludge Loading Facility designed for operation if S-9 and S-10 are not available. It is an enclosed building with appropriate odor control (A-199) and is allowed 500 run hours annually for maintenance and testing. S-197 was not exercised during the reporting period.

## 2.13 Additional Compliance Activities

Central San is considered a major stationary combustion source of greenhouse gas emissions by the California Air Resources Board. Central San's annual emissions of non-biogenic carbon dioxide equivalents are less than 25,000 metric tons. Therefore, Central San does not incur any compliance obligations under the Cap and Trade portion of AB 32 but is required to report and verify carbon dioxide equivalents emissions on an annual basis.

# 2.14 Compliance Certification Forms

As required in the current Title V Major Facility Review Permit, the completed Compliance Certification forms and the completed Major Facility Review Certification Statement will be sent to BAAQMD in a separate submittal. A copy of this submittal will also be sent to the United States Environmental Protection Agency, Region IX.

# 3 Fourth Quarter 2021 Reporting Requirements

The following sections satisfy the fourth quarter reporting requirement pursuant to Permit-to-Operate Condition 21422 Parts 2 and 3, Condition 21485 Part 14, BAAQMD Rule 9-1-302, and BAAQMD Rule 8-34-503.

#### 3.1 SO<sub>2</sub> Concentration from Landfill Gas Combustion

The maximum LFG hydrogen sulfide concentration was 42.0 ppmv during the fourth quarter period. Based on this H<sub>2</sub>S concentration, the estimated maximum exhaust gas SO<sub>2</sub> concentration from either auxiliary boiler (S-7 and S-8) is 8.5 ppmvd SO<sub>2</sub>. This concentration is significantly lower than the permit limit of 300 ppmvd SO<sub>2</sub>.

#### 3.2 SO<sub>2</sub> Concentration from Natural Gas Combustion

The maximum  $SO_2$  emissions from the combustion of NG are based on the maximum total sulfur content of 0.26 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 fourth quarter of 2021.

While burning NG, the maximum  $SO_2$  concentration in the stack gas from the Auxiliary Boilers (S-7 and S-8) and Cogeneration (S-188) during the reporting period was 0.47 ppmvd  $SO_2$ . This concentration is significantly lower than the permit limit of 300 ppmvd  $SO_2$ .

Quarterly SO<sub>2</sub> concentration readings from LFG and NG combustion are presented in Appendix I.

#### 3.3 Total Organic Carbon Leaks – Landfill Gas System

The LFG piping from the landfill to Central San's point of delivery is tested for leaks by Acme Landfill's consultant and was tested on December 15, 2021. 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 is tested by Central San's staff and was tested for leaking components on November 29, 2021. 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 J.

s completes the Title V reporting requirements for the annual period of January 1, 2021 through rember 31, 2021, the semi-annual period of July 1, 2021 through December 31, 2021, and the fourth quarter iod of October 1, 2021 through December 31, 2021. To the best of my knowledge, the information contained ein is true and accurate.								
herein is true and accurate.								
Steve McDonald	01/31/2022							
Steve McDonald, P.E.	Date							

I certify the following:

**Director of Operations** 

## **APPENDIX A**

## TITLE V SEMI-ANNUAL MONITORING VERIFICATION REPORT

## Appendix A

Title V Semi-Annual Monitoring Verification Report

Date: January 31, 2022

Period: 1/1/2021 - 12/31/2021

Site #: A0907

Site Name: Central Contra Costa Sanitary District

Address: 5019 Imhoff Place

City: Martinez State: CA Zip Code: 94553

The following tables show the relationship between each limit and the associated compliance monitoring provisions, if any. Federally enforceable (FE) limits are also identified. The monitoring frequency column indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown using the following codes: annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable limit based upon the nature of the operation.

S-7 AUXILIARY BOILER #1	2
S-8 AUXILIARY BOILER #2	8
S-9 MULTIPLE HEARTH FURNACE #1	14
S-10 MULTIPLE HEARTH FURNACE #2	27
S-24 CENTRIFUGES AND CAKE HOPPERS	40
S-25 GASOLINE DISPENSING FACILITY	41
S-180 DISSOLVED AIR FLOTATION UNITS AND SLUDGE BLENDING TANKS	41
S-182 ASH CONVEYING SYSTEM	41
S-188 NATURAL GAS FIRED TURBINE GENERATOR WITH HRSG	44
S-195 EMERGENCY STANDBY DIESEL GENERATOR #1	47
S-196 EMERGENCY STANDBY DIESEL GENERATOR #3	48

#### S-7 AUXILIARY BOILER #1

Source #: S-7					Source Name: Auxiliary E	Boiler #1			
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Compliance	•
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
Oxides of Nitrogen	SIP 9-7-301.1 (Gaseous Fuels)	Y		30 ppmvd @ 3% O <sub>2</sub>	BAAQMD Condition #21422, part 7	P/once every 60 months	Source Test	X 10/20/21 NST-6869	
	SIP 9-7-302.1 (Non- Gaseous Fuels)	Y		40 ppmvd @ 3% O₂	BAAQMD Condition #21422, part 7	P/once every 60 months	Source Test	X NA. Non- gaseous fuel is only burned during a natural gas curtailment or testing. The device did not exceed the hour limits required for the exemption.	
	SIP 9-7-305.1	Y		150 ppmvd @ 3% O <sub>2</sub> when burning non-gaseous fuel due to natural gas curtailment	BAAQMD 9-7-503.2	P/E	Records	Х	
	SIP 9-7-306.1	Y		150 ppmvd @ 3% O <sub>2</sub> when burning non-gaseous fuel for testing	BAAQMD 9-7-503.2	P/E	Records	Х	

Source #: S-7					Source Name: Auxiliary B	Boiler #1			
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complianc	e
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Υ	N
Oxides of	BAAQMD	N		150 ppmvd at 3% O <sub>2</sub> when	BAAQMD	P/E	Records	Х	
Nitrogen	9-7-113.2			burning non-gaseous fuel	9-8-503.3				
				during natural gas curtailment					
				for up to 168 hours in any					
				consecutive 12-month period or					
				48 hours for testing in any					
				consecutive 12-month period					
Oxides of	BAAQMD	Ν		15 ppmvd @ 3% O <sub>2</sub> for	BAAQMD Condition	P/once every	Source Test	Χ	
Nitrogen	9-7-307.4			gaseous fuels except landfill or	#21422,	60 months		10/20/21	
				digester gas	part 5			NST-6869	
Oxides of	BAAQMD	N		15 ppmvd @ 3% O <sub>2</sub> for	BAAQMD	P/A	Portable	Х	
Nitrogen	9-7-307.4			gaseous fuels except landfill or	9-7-506		Analyzer	10/20/21	
				digester gas				NST-6869	
Oxides of	BAAQMD	Ν		30 ppmvd @ 3% O <sub>2</sub> for landfill	BAAQMD Condition	P/once every	Source Test	Χ	
Nitrogen	9-7-307.7			or digester gas	#21422,	60 months		10/20/21	
					part 5			NST-6869	
	BAAQMD	Ν		30 ppmvd @ 3% O <sub>2</sub> for landfill	BAAQMD	P/A	Portable	Х	
	9-7-307.7			or digester gas)	9-7-506		Analyzer	10/20/21	
								NST-6869	
Carbon	SIP	Υ		400 ppmvd @ 3% O <sub>2</sub>	BAAQMD Condition	P/once every	Source Test	Х	
Monoxide	9-7-301.2				#21422,	60 months		10/20/21	
	(Gaseous				part 5			NST-6869	
	Fuels)								

Source #: S-7					Source Name: Auxiliary Boiler #1					
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Compliand	e	
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N	
Carbon	SIP	Υ		400 ppmvd @ 3% O <sub>2</sub>		N		Х		
Monoxide	9-7-302.2									
	(Non-									
	Gaseous									
	Fuels)									
	SIP	Υ		400 ppmvd @ 3% O2 when	BAAQMD	P/E	Records	X		
	9-7-305.2			burning non-gaseous fuel due	9-7-503.2					
				to natural gas curtailment						
	SIP	Υ		400 ppmvd @ 3% O₂ when	BAAQMD	P/E	Records	X		
	9-7-306.2			burning non-gaseous fuel for	9-7-503.3					
				testing						
	BAAQMD	Ν		400 ppmvd @ $3\% O_2$ for	BAAQMD Condition	P/once every	Source Test	X		
	9-7-307.4,			gaseous, landfill gas and	#21422,	60 months		10/20/21		
	9-7-307.7,			digester gas	part 5			NST-6869		
	and									
	9-7-307.8									
	BAAQMD	N		400 ppmvd @ 3% O <sub>2</sub> for	BAAQMD	P/A	Portable	X		
	9-7-307.4,			gaseous, landfill gas and	9-7-506		Analyzer	10/20/21		
	9-7-307.7,			digester gas				NST-6869		
	and									
	9-7-307.8									
Sulfur	BAAQMD	Υ		GLC of 0.5 ppm for 3 min or		N		X		
Dioxide	9-1-301			0.25 ppm for 60 min or 0.05						
				ppm for 24 hours						

Source #: S-7					Source Name: Auxiliary B	oiler #1										
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complianc	е							
Limit	Citation	Citation	Citation	Citation	Citation	Citation	Citation	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Υ	N
	9-1-302	Y		300 ppmvd	BAAQMD Condition #21422, part 3	P/Q	Fuel Sulfur Analysis Based Calculation	X Appendix I								
	9-1-304	Y		Sulfur content of fuel (<0.5% by wt)	BAAQMD Condition #21422, part 2	P/M	Fuel Sulfur Analysis	X Appendix I								
	BAAQMD Condition #21422, part 3	Y		300 ppmvd	BAAQMD Condition #21422, part 3	P/ Q	Fuel Sulfur Analysis Based Calculation	X Appendix I								
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1		N		Χ								
	SIP 6-301	Y		Ringelmann No. 1		N		Х								
Filterable Particulate	BAAQMD 6-1-310	N		0.15 grains/dscf @ 6% O <sub>2</sub>		N		Х								
	SIP 6-310	Y		0.15 grains/dscf @ 6% O <sub>2</sub>		N		Х								
Organics & CH <sub>4</sub>	BAAQMD, Condition #21422, part 8	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane @ 3% O <sub>2</sub>	BAAQMD, Condition #21422, part 6	С	Temperature Monitor	X Appendix C								
	BAAQMD 8-34-301.2	N		Max Leakage: 1000 ppmvd (as CH₄)	BAAQMD 8-34-503	P/Q	Leak Testing	X Appendix J								

Source #: S-7					Source Name: Auxiliary B	oiler #1			
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complianc	е
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Υ	N
	BAAQMD 8-34-301.4	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD 8-34-507	С	Temperature Monitor	X Appendix C	
	BAAQMD 8-34-301.4	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD 8-34-508	С	Gas Flow Meter	X	
Organics & CH <sub>4</sub>	BAAQMD 8-34-301.4	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD 8-34-412	P/A	Source Test	X 10/20/21 NST-6869	
Organics & CH <sub>4</sub>	BAAQMD 8-34-301.2	Y		Max Leakage: 1000 ppmvd (as CH₄)	BAAQMD 8-34-503	P/Q	Leak Testing	X Appendix J	
Heat Input	BAAQMD Condition #21422, part 1	Y		Not to exceed 28 MMBtu/hr	BAAQMD Condition #21422, part 9A	P/M	Records	X	
Boiler Temperature	BAAQMD Condition #21422, part 8	Y		770 degrees F or greater, when burning landfill gas	BAAQMD Condition #21422, part 8	С	Records	X Appendix C	

Source #: S-7					Source Name: Auxiliary Boiler #1				
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Compliance	е
Limit	Citation	Y/N	Effective		Requirement Citation	Frequency	Type	V	N
			Date			(P/C/N)		Ĭ	N
Stack Gas	BAAQMD	N		466 degrees F	BAAQMD Condition	P/A	During	Χ	
Temperature	9-7-312				#21422,		Source Test	10/20/21	
					part 8			NST-6869	

#### S-8 AUXILIARY BOILER #2

Source #: S-8					Source Name: Auxiliary E	Boiler #2			
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Compliance	9
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
Oxides of	SIP	Υ		30 ppmvd @ 3% O <sub>2</sub>	BAAQMD Condition	P/once every	Source Test	Х	
Nitrogen	9-7-301.1				#21422,	60 months		10/21/21	
	(Gaseous Fuels)				part 7			NST-6870	
	SIP	Υ		40 ppmvd @ 3% O <sub>2</sub>	BAAQMD Condition	P/once every	Source Test	Х	
	9-7-302.1				#21422,	60 months		NA. Non-	
	(Non-				part 7			gaseous fuel is	
	Gaseous							only burned	
	Fuels)							during a	
								natural gas	
								curtailment or	
								testing. The	
								device did not	
								exceed the	
								hour limits	
								required for the	
								exemption.	
	SIP	Υ		150 ppmvd @ 3% O <sub>2</sub> when	BAAQMD	P/E	Records	X	
	9-7-305.1			burning non-gaseous fuel due	9-7-503.2				
				to natural gas curtailment					
	SIP	Υ		150 ppmvd @ 3% O <sub>2</sub> when	BAAQMD	P/E	Records	X	
	9-7-306.1			burning non-gaseous fuel for	9-7-503.2				
				testing					

Source #: S-8					Source Name: Auxiliary B	Boiler #2			
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complianc	е
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Υ	N
Oxides of Nitrogen	BAAQMD 9-7-113.2	Z		150 ppmvd at 3% O <sub>2</sub> when burning non-gaseous fuel during natural gas curtailment for up to 168 hours in any consecutive 12-month period or 48 hours for testing in any consecutive 12-month period	BAAQMD 9-8-503.3	P/E	Records	X	
Oxides of Nitrogen	BAAQMD 9-7-307.4	N		15 ppmvd @ 3% O <sub>2</sub> for gaseous fuels except landfill or digester gas	BAAQMD Condition #21422, part 5	P/once every 60 months	Source Test	X 10/21/21 NST-6870	
Oxides of Nitrogen	BAAQMD 9-7-307.4	N		15 ppmvd @ 3% O <sub>2</sub> for gaseous fuels except landfill or digester gas	BAAQMD 9-7-506	P/A	Portable Analyzer	X 10/21/21 NST-6870	
Oxides of Nitrogen	BAAQMD 9-7-307.7	N		30 ppmvd @ 3% O <sub>2</sub> for landfill or digester gas	BAAQMD Condition #21422, part 5	P/once every 60 months	Source Test	X 10/21/21 NST-6870	
	BAAQMD 9-7-307.7	N		30 ppmvd @ 3% O <sub>2</sub> for landfill or digester gas)	BAAQMD 9-7-506	P/A	Portable Analyzer	X 10/21/21 NST-6870	
Carbon Monoxide	SIP 9-7-301.2 (Gaseous Fuels)	Y		400 ppmvd @ 3% O <sub>2</sub>	BAAQMD Condition #21422, part 5	P/once every 60 months	Source Test	X 10/21/21 NST-6870	

Source #: S-8					Source Name: Auxiliary B	oiler #2			
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complianc	e
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
Carbon	SIP	Υ		400 ppmvd @ 3% O <sub>2</sub>		N		X	
Monoxide	9-7-302.2								
	(Non-								
	Gaseous								
	Fuels)						_		
	SIP	Υ		400 ppmvd @ 3% O <sub>2</sub> when	BAAQMD	P/E	Records	X	
	9-7-305.2			burning non-gaseous fuel due	9-7-503.2				
				to natural gas curtailment			_		
	SIP	Υ		400 ppmvd @ 3% O <sub>2</sub> when	BAAQMD	P/E	Records	X	
	9-7-306.2			burning non-gaseous fuel for	9-7-503.3				
				testing			_		
	BAAQMD	N		400 ppmvd @ 3% O <sub>2</sub> for	BAAQMD Condition	P/once every	Source Test	X	
	9-7-307.4,			gaseous, landfill gas and	#21422,	60 months		10/21/21	
	9-7-307.7,			digester gas	part 5			NST-6870	
	and								
	9-7-307.8				5.1.61.5				
	BAAQMD	N		400 ppmvd @ 3% O <sub>2</sub> for	BAAQMD	P/A	Portable	Χ	
	9-7-307.4,			gaseous, landfill gas and	9-7-506		Analyzer	10/21/21	
	9-7-307.7,			digester gas				NST-6870	
	and								
Sulfur	9-7-307.8 BAAQMD	Υ		CLC of 0.5 npm for 2 min or		N		X	
		ľ		GLC of 0.5 ppm for 3 min or		IN		Χ	
Dioxide	9-1-301			0.25 ppm for 60 min or 0.05					
				ppm for 24 hours					

Source #: S-8					Source Name: Auxiliary B	3oiler #2			
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complianc	e
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Υ	N
	BAAQMD 9-1-302	Y		300 ppmvd	BAAQMD Condition #21422, part 3	P/Q	Fuel Sulfur Analysis Based Calculation	X Appendix I	
	9-1-304	Y		Sulfur content of fuel (<0.5% by wt)	BAAQMD Condition #21422, part 2	P/M	Fuel Sulfur Analysis	X Appendix I	
	BAAQMD Condition #21422, part 3	Y		300 ppmvd	BAAQMD Condition #21422, part 3	P/ Q	Fuel Sulfur Analysis Based Calculation	X Appendix I	
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1		N		Х	
	SIP 6-301	Υ		Ringelmann No. 1		N		Х	
Filterable Particulate	BAAQMD 6-1-310	N		0.15 grains/dscf @ 6% O <sub>2</sub>		N		Х	
	SIP 6-310	Υ		0.15 grains/dscf @ 6% O <sub>2</sub>		N		Х	
Organics & CH <sub>4</sub>	BAAQMD, Condition #21422, part 8	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane @ 3% O <sub>2</sub>	BAAQMD, Condition #21422, part 6	С	Temperature Monitor	X Appendix C	
	BAAQMD 8-34-301.2	N		Max Leakage: 1000 ppmvd (as CH₄)	BAAQMD 8-34-503	P/Q	Leak Testing	X Appendix J	

Source #: S-8					Source Name: Auxiliary B	oiler #2			
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Compliance	Э
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
	BAAQMD 8-34-301.4	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD 8-34-507	С	Temperature Monitor	X Appendix C	
	BAAQMD 8-34-301.4	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD 8-34-508	С	Gas Flow Meter	X RCA 07Z65 for inoperative LFG flow meter	
Organics & CH <sub>4</sub>	BAAQMD 8-34-301.4	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD 8-34-412	P/A	Source Test	X 10/21/21 NST-6870	
Organics & CH <sub>4</sub>	BAAQMD 8-34-301.2	Y		Max Leakage: 1000 ppmvd (as CH₄)	BAAQMD 8-39-503	P/Q	Leak Testing	X Appendix J	
Heat Input	BAAQMD Condition #21422, part 1	Y		Not to exceed 28 MMBtu/hr	BAAQMD Condition #21422, part 9A	P/M	Records	×	
Boiler Temperature	BAAQMD Condition #21422, part 8	Y		770 degrees F or greater, when burning landfill gas	BAAQMD Condition #21422, part 8	С	Records	X Appendix C	

Source #: S-8					Source Name: Auxiliary B	oiler #2			
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Compliance	е
Limit	Citation	Y/N	Effective		Requirement Citation	Frequency	Туре	V	N
			Date			(P/C/N)		•	14
Stack Gas	BAAQMD	Ν		466 degrees F	BAAQMD Condition	P/A	During	X	
Temperature	9-7-312				#21422,		Source Test	10/21/21	
					part 8			NST-6870s	

#### S-9 MULTIPLE HEARTH FURNACE #1

Source #: S-9	9				Source Name: Multiple He	earth Furnace #	1		
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Comp	liance
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
Sulfur Dioxide	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		26 ppmvd @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 10/20/20- 10/22/20 NST-6178	
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		26 ppmvd @ 7% O <sub>2</sub>	40 CFR 62.15955, Table 4	С	Scrubber Liquid pH Monitor	NA Awaiting response from USEPA Region 9 on site- specific parametri c limit	
	BAAQMD 9-1-301	Y		GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		Х	
	BAAQMD 9-1-304	Y		300 ppmvd	BAAQMD Condition #21423, part 11	P/A	Source Test	X 10/20/20- 10/22/20 NST-6178	

Source #: S-9					Source Name: Multiple He	earth Furnace #			
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Com	pliance
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
Oxides of	40 CFR 62,	Υ		220 ppmvd @ 7% O <sub>2</sub>	40 CFR 62,	P/A	Source Test	Х	
Nitrogen	Subpart LLL,				Subpart LLL, Sections 15980(a) and 16000,			10/20/20- 10/22/20	
	Section 15955;				Table 3			NST-6178	
Opacity	Table 3 BAAQMD 6-1-301	N		Ringelmann No. 1		N		X	
	SIP 6-301	Υ		Ringelmann No. 1		N		Х	
Opacity	BAAQMD	N		20% opacity for no more than 3	BAAQMD	С	Continuous		Х
	6-1-302			minutes in any hour	6-1-501		Opacity Monitor		Appendix F RCA 08C66
	SIP	Υ		20% opacity for no more than 3	BAAQMD	С	Continuous		Х
	6-302			minutes in any hour	6-501		Opacity Monitor		Appendix F RCA 08C66
	40 CFR	Υ		20% opacity	BAAQMD	С	Continuous		Х
	60.152(a) (2)				6-1-501		Opacity Monitor		Appendix F RCA 08C66
	BAAQMD	Υ		20% opacity or greater	BAAQMD Condition	С	Continuous		Х
	Condition				#21423,		Opacity		Appendix F
	#21423, part 5				part 5		Monitor		RCA 08C66
Filterable	BAAQMD	N		0.15 grains/dscf	BAAQMD Condition	P/once every	Source Test	Х	
Particulate	6-1-310.1			@ 12% CO <sub>2</sub> and as if no	#21423,	60 months		10/20/20-	
				auxiliary fuel is used	part 10			10/22/20	
								NST-6178	

Source #: S-9					Source Name: Multiple He	earth Furnace #1			
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Com	oliance
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
	SIP	Υ		0.15 grains/dscf	BAAQMD Condition	P/once every	Source Test	Х	
	6-310.1			@ 12% CO <sub>2</sub> and as if no	#21423,	60 months		10/20/20-	
				auxiliary fuel is used	part 10			10/22/20	
								NST-6178	
	BAAQMD	N		5.44 kg/hr, per Table 6-1-311.2:	BAAQMD Condition	P/once every	Source Test	Х	
	6-1-311.2			Process Weight Rate vs.	#21423,	2 years		10/20/20-	
				Allowable TSP Emission Limits	part 10			10/22/20	
				(effective July 1, 2020)				NST-6178	
Filterable	SIP	Υ		4.10P <sup>0.67</sup> lb/hr, where P is	BAAQMD Condition	P/once every	Source Test	Х	
Particulate	6-311			process weight, lb/hr, not to	#21423,	60 months		10/20/20-	
				exceed 40 lb/hr	part 10			10/22/20	
								NST-6178	
Filterable	40 CFR	Υ		0.65 g particulate matter/kg dry	40 CFR	С	Sludge Flow	Х	
Particulate	60.152(a)			sludge	60.153(a)(1) and		Meter		
	(1),				BAAQMD Condition				
	BAAQMD				21423,				
	Condition				part 13a				
	#21423,								
	part 3								
	40 CFR	Υ		0.65 g particulate matter/kg dry	40 CFR	С	Wet	Х	
	60.152(a)			sludge (pressure drop shall not	60.153(b)(1),		Scrubber	Appendix	
	(1)			drop below individual furnace	BAAQMD Condition		Pressure	D	
				scrubber pressure set points for	21423, parts 13b and		Drop Meter		
				> 15 min in any hour)	14a				

Source #: S-9	)				Source Name: Multiple He	earth Furnace #	1		
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Comp	oliance
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
	40 CFR 60.152(a) (1)	Y		0.65 g particulate matter/kg dry sludge (oxygen content shall not exceed 10%)	40 CFR 60.153(b)(2), BAAQMD Condition 21423, parts 13c and 14b	С	O <sub>2</sub> Analyzer	X Appendix E	
	40 CFR 60.152(a) (1)	Y		0.65 g particulate matter/kg dry sludge	40 CFR 60.153(b)(3) and BAAQMD Condition 21423, part 13d	С	Temperature Monitors	X Appendix G	
Filterable Particulate	40 CFR 60.152(a) (1)	Y		0.65 g particulate matter/kg dry sludge	40 CFR 60.153(b)(4) and BAAQMD Condition 21423, part 13e	С	Fuel Flow Meter	X 10/20/20	
	40 CFR 60.152(a) (1)	Υ		0.65 g particulate matter/kg dry sludge	40 CFR 60.153(b)(5) and BAAQMD Condition 21423, part 13f	P/D	Sludge Sample and Analysis	Х	
Filterable Particulate	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		80 mg/dscm @ 7% O₂	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 10/20/20- 10/22/20 NST-6178	

Source #: S-9					Source Name: Multiple He	earth Furnace #	1		
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Com	oliance
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Υ	N
	40 CFR 62,	Υ		80 mg/dscm @ 7% O <sub>2</sub>	40 CFR 62,	С	Hearth 1	NA	
	Subpart			(combustion chamber operating	Subpart LLL,		Temperature	Awaiting	
	LLL,			temperature shall not drop	Table 4		Monitor	response	
	Section			below setpoints for > 15 min in				from	
	15955;			any hour)				USEPA	
	Table 3							Region 9	
								on site-	
								specific	
								parametri	
								c limit	
	40 CFR 62,	Υ		80 mg/dscm @ 7% O <sub>2</sub>	40 CFR 62.15960,	С	Wet	NA	
	Subpart			(pressure drop shall not drop	Table 4		Scrubber	Awaiting	
	LLL,			below individual furnace			Pressure	response	
	Section			scrubber pressure setpoints for			Drop Meter	from	
	15955;			> 15 min in any hour)				USEPA	
	Table 3							Region 9	
								on site-	
								specific	
								parametri	
								c limit	

Source #: S-9					Source Name: Multiple He	earth Furnace #	1		
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Com	oliance
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
Filterable Particulate	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		80 mg/dscm @ 7% O <sub>2</sub> (scrubber liquid flow rate shall not drop below setpoints for > 15 min in any hour)	40 CFR 62.15960, Table 4	С	Wet Scrubber Effluent Liquid Flow Meter	NA Awaiting response from USEPA Region 9 on site- specific parametri c limit	
	BAAQMD Condition #21423, part 4	Y		343 mg particulate/dscm (0.15 gr/dscf) of exhaust gas volume	BAAQMD Condition #21423, part 10	P/once every 60 months	Source Test	X 10/20/20- 10/22/20 NST-6178	
Non- Methane Organic Compounds	BAAQMD Condition #21423, Part 12	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD Condition 21423, part 12	С	Hearth 1 Temperature Monitor	X Appendix G	
CH₄	BAAQMD 8-34-301.2	Y		Max Leakage: 1000 ppmvd (as CH₄)	BAAQMD 8-34-503	P/Q	Leak Monitoring	X Appendix J	
Non- Methane Organic Compounds	BAAQMD 8-34-301.4	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD 8-34-507	С	Hearth 1 Temperature Monitor	X Appendix G	

Source #: S-9					Source Name: Multiple Hearth Furnace #1					
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance		
								Y	N	
Non-	BAAQMD	Ν		Emission Reduction: 98% by	BAAQMD	С	Gas Flow	Х		
Methane	8-34-301.4			weight or concentration less	8-34-508		Meter			
Organic				than 120 ppmvd Non-Methane						
Compounds				Organic Compounds, as						
				methane and at 3% O <sub>2</sub>						
Non-	BAAQMD	Ν		Emission Reduction: 98% by	BAAQMD	P/A	Source Test	X		
Methane	8-34-301.4			weight or concentration less	8-34-412			10/20/20-		
Organic				than 120 ppmvd Non-Methane				10/22/20		
Compounds				Organic Compounds, as				NST-6178		
				methane and at 3% O <sub>2</sub>						
Hydrogen	40 CFR 62,	Υ		1.2 ppmvd @ 7% O <sub>2</sub>	40 CFR 62,	P/A	Source Test	X		
Chloride	Subpart				Subpart LLL, Sections			10/20/20-		
	LLL,				15980(a) and 16000,			10/22/20		
	Section				Table 3			NST-6178		
	15955;									
	Table 3									
	40 CFR 62,	Υ		1.2 ppmvd @ 7% O <sub>2</sub>	40 CFR 62.15955,	С	Scrubber	NA		
	Subpart				Table 4		Liquid pH	Awaiting		
	LLL,						Monitor	response		
	Section							from		
	15955;							USEPA		
	Table 3							Region 9		
								on site-		
								specific		
								parametri		
								c limit		

Source #: S-9					Source Name: Multiple Hearth Furnace #1					
Type of Limit	Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance		
								Y	N	
Carbon Monoxide	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		3,800 ppmvd @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 10/20/20- 10/22/20 NST-6178		
Dioxins/ Furans	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		5.0 ng/dscm (total mass basis); or 0.32 ng/dscm (toxic equivalency basis) @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 10/20/20- 10/22/20 NST-6178		
Hydrogen Sulfide	BAAQMD 9-2-301	N		24 Hour Standard: GLC not to exceed 0.06 ppm avg over 3 min and 0.03 ppm avg over 60 min		N		Х		
Lead	BAAQMD 11-1-301, BAAQMD Condition #21423, Part 9	Y		15 lb/day	BAAQMD Condition #21423, part 10	P/once every 60 months	Source Test	X 10/20/20- 10/22/20 NST-6178		
	BAAQMD 11-1-302	Y		Max GLC (w/o background): 1.0 microgram/cu m (24 hour average)		N		Х		

Source #: S-9	)				Source Name: Multiple H	earth Furnace #1			
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Com	pliance
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
	40 CFR 62,	Υ		0.30 mg/dscm @ 7% O <sub>2</sub>	40 CFR 62,	P/A	Source Test	Х	
	Subpart				Subpart LLL, Sections			10/20/20-	
	LLL,				15980(a) and 16000,			10/22/20	
	Section				Table 3			NST-6178	
	15955;								
	Table 3								
Be	BAAQMD	N		10 g/ 24 hr	BAAQMD	P/once every	Source Test	X	
	11-3-301,				Condition	60 months		10/20/20-	
	BAAQMD				#21423,			10/22/20	
	Condition				part 10			NST-6178	
	#21423,								
	part 6								
	40 CFR	Υ		10 g/ 24 hr	BAAQMD	P/ once every	Source Test	Х	
	Part 61.32				Condition	60 months		10/20/20-	
					#21423 <u>,</u>			10/22/20	
					part 10			NST-6178	
Mercury	BAAQMD	N		3200 g/24 hr	BAAQMD	P/once every	Source Test	Х	
	11-5-302,				Condition	60 months		10/20/20-	
	Condition				#21423,			10/22/20	
	#21423,				parts 7, 8, 10			NST-6178	
	Part 7								
	40 CFR	Υ		3.2 kg/24 hr	40 CFR	P/A	Sludge	Х	
	Part 61.52				Part 61.53		Analysis		
	(b)								

Source #: S-9					Source Name: Multiple He	earth Furnace #			
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Comp	liance
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		0.28 mg/dscm @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 10/20/20- 10/22/20 NST-6178	
Cadmium	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		0.095 mg/dscm @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 10/20/20- 10/22/20 NST-6178	
Solid Fuel Feed Rate	Permit Condition #21423, Part 2	Y		60 dry tons sludge/day; 120 dry tons sludge/day for S-9 and S-10 combined	Permit Condition #21423, Part 13a	P/C	Flow Measuring Device	Х	
	Permit Condition #21423, Part 2	Y		20,000 dry tons sludge/ consecutive 12-month period for S-9 and S-10 combined	Permit Condition #21423, Part 13a	P/C	Flow Measuring Device	Х	
Sludge Feed Rate		Y			40 CFR 62, Subpart LLL, Section 15960(f)(1), Table 4	С	Flow Measuring Device	Х	
Sludge Moisture		Y			40 CFR 62, Subpart LLL, Section 15960(f)(1), Table 4	P/D	Sludge Analysis	Х	

Source #: S-9					Source Name: Multiple He	earth Furnace #	1		
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Comp	oliance
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
Hearth 1	Permit	Υ		1,000 degrees F, rolling 3	Permit Condition	С	Hearth 1	Х	
Minimum	Condition			clock-hour average	#21423,		Temperature	Appendix	
Temperature	#21423, Part 12				Part 13d		Monitor	G	
Fugitive	40 CFR 62,	Υ		5% of the hourly observation	40 CFR 62,	P/A	Visible	Х	
Emissions	Subpart			period	Subpart LLL, Sections		Emission	10/20/20-	
from Ash	LLL,				15980(a) and 16000,		Test	10/21/20	
Handling	Section				Table 3			Complete	
	15960(d);							d during	
	Table 3							annual	
								129	
								complianc	
								е	
								demonstr	
								ation	
								source	
								test	
Hearth 1	40 CFR 62,	Υ		Awaiting response from USEPA	40 CFR 62,	С	Hearth 1	NA	
Temperature	Subpart			Region 9 on site-specific	Subpart LLL,		Temperature	Awaiting	
	LLL,			parametric limit	Table 4		Monitor	response	
	Section							from	
	15960(a);							USEPA	
	Table 3							Region 9	
								on site-	
								specific	
								parametri	
								c limit	

Source #: S-9					Source Name: Multiple He	earth Furnace #			
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Com	pliance
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
Pressure	40 CFR 62,	Υ		Awaiting response from USEPA	40 CFR 62,	С	Wet	NA	
Drop	Subpart			Region 9 on site-specific	Subpart LLL,		Scrubber	Awaiting	
	LLL,			parametric limit	Table 4		Pressure	response	
	Section						Drop Meter	from	
	15960(b);							USEPA	
	Table 3							Region 9	
								on site-	
								specific	
								parametri	
								c limit	
Pressure	40 CFR	Υ		Minimum scrubber pressure	40 CFR 64	С	Wet	X	
Drop	60.152(a)			drop: 5.9" W.C			Scrubber	Appendix	
	(1);						Pressure	D	
	BAAQMD						Drop Meter		
	6-1-310.1,								
	SIP								
	6-310.1;								
	BAAQMD								
	6-1-311,								
	SIP								
	6-311;								

Source #: S-9					Source Name: Multiple He	earth Furnace #	1		
Type of Limit	Limit Citation	FE Y/N	Future Effective	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Com	pliance
Lillie	Onation	1714	Date		Requirement offation	(P/C/N)	Турс	Y	N
Scrubber	40 CFR 62,	Υ		Awaiting response from USEPA	40 CFR 62,	С	Wet	NA	
Liquid Flow	Subpart			Region 9 on site-specific	Subpart LLL,		Scrubber	Awaiting	
	LLL,			parametric limit	Table 4		Effluent	response	
	Section						Liquid Flow	from	
	15960(b);						Meter	USEPA	
	Table 3							Region 9	
								on site-	
								specific	
								parametri	
								c limit	
pH of	40 CFR 62,	Υ		Awaiting response from USEPA	40 CFR 62,	С	Scrubber	NA	
Scrubber	Subpart			Region 9 on site-specific	Subpart LLL,		Liquid pH	Awaiting	
Liquid	LLL,			parametric limit	Table 4		Monitor	response	
	Section							from	
	15960(b);							USEPA	
	Table 3							Region 9	
								on site-	
								specific	
								parametri	
								c limit	

#### S-10 MULTIPLE HEARTH FURNACE #2

Source #: S-	10				Source Name: Multiple He	earth Furnace #2	2		
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complia	ince
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
Sulfur Dioxide	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		26 ppmvd @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 11/19/19- 11/21/19 NST-5648	
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		26 ppmvd @ 7% O <sub>2</sub>	40 CFR 62.15955, Table 4	С	Scrubber Liquid pH Monitor	NA Awaiting response from USEPA Region 9 on site- specific parametric limit	
	BAAQMD 9-1-301	Y		GLC of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		Х	
	BAAQMD 9-1-304	Y		300 ppmvd	BAAQMD Condition #21423, part 11	P/A	Source Test	X 11/19/19- 11/21/19 NST-5648	

Source #: S-1	0				Source Name: Multiple He	earth Furnace #2	2		
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complia	ince
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
Oxides of Nitrogen	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		220 ppmvd @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 11/19/19- 11/21/19 NST-5648	
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1		N		Х	
	SIP 6-301	Υ		Ringelmann No. 1		N		X	
Opacity	BAAQMD 6-1-302	N		20% opacity for no more than 3 minutes in any hour	BAAQMD 6-1-501	С	Continuous Opacity Monitor	X Appendix F	
	SIP 6-302	Y		20% opacity for no more than 3 minutes in any hour	BAAQMD 6-501	С	Continuous Opacity Monitor	X Appendix F	
	40 CFR 60.152(a) (2)	Y		20% opacity	BAAQMD 6-1-501	С	Continuous Opacity Monitor	X Appendix F	
	BAAQMD Condition #21423, part 5	Y		20% opacity or greater	BAAQMD Condition #21423, part 5	С	Continuous Opacity Monitor	X Appendix F	
Filterable Particulate	BAAQMD 6-1-310.1	N		0.15 grains/dscf @ 12% CO <sub>2</sub> and as if no auxiliary fuel is used	BAAQMD Condition #21423, part 10	P/once every 60 months	Source Test	X 11/19/19- 11/21/19 NST-5648	

Source #: S-1	0				Source Name: Multiple He	earth Furnace #2	2		
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complia	ance
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
	SIP	Υ		0.15 grains/dscf	BAAQMD Condition	P/once every	Source Test	Х	
	6-310.1			@ 12% CO <sub>2</sub> and as if no	#21423,	60 months		11/19/19-	
				auxiliary fuel is used	part 10			11/21/19 NST-5648	
	BAAQMD	N		8.92 kg/hr, per Table 6-1-311.1:	BAAQMD Condition	P/once every	Source Test	Х	
	6-1-311.1			Process Weight Rate vs.	#21423,	2 years		11/19/19-	
				Allowable TSP Emission Limits	part 10			11/21/19	
				(expired July 1, 2020)				NST-5648	
	BAAQMD	Ν		5.44 kg/hr, per Table 6-1-311.2:	BAAQMD Condition	P/once every	Source Test	Х	
	6-1-311.2			Process Weight Rate vs.	#21423,	2 years		11/19/19-	
				Allowable TSP Emission	part 10			11/21/19	
				(effective July 1, 2020) Limits				NST-5648	
Filterable	SIP	Υ		4.10P <sup>0.67</sup> lb/hr, where P is	BAAQMD Condition	P/once every	Source Test	Х	
Particulate	6-311			process weight, lb/hr, not to	#21423,	60 months		11/19/19-	
				exceed 40 lb/hr	part 10			11/21/19	
								NST-5648	
Filterable	40 CFR	Υ		0.65 g particulate matter/kg dry	40 CFR	С	Sludge Flow	X	
Particulate	60.152(a)			sludge	60.153(a)(1) and		Meter		
	(1),				BAAQMD Condition				
	BAAQMD				21423,				
	Condition				part 13a				
	#21423,								
	part 3								

Source #: S-1	0				Source Name: Multiple He	earth Furnace #2	2		
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complia	ance
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
	40 CFR 60.152(a) (1)	Y		0.65 g particulate matter/kg dry sludge (pressure drop shall not drop below individual furnace scrubber pressure setpoints for > 15 min in any hour)	40 CFR 60.153(b)(1), BAAQMD Condition 21423, parts 13b and 14a	С	Wet Scrubber Pressure Drop Meter	X Appendix D	
	40 CFR 60.152(a) (1)	Y		0.65 g particulate matter/kg dry sludge (oxygen content shall not exceed 10%)	40 CFR 60.153(b)(2), BAAQMD Condition 21423, parts 13c and 14b	С	O <sub>2</sub> Analyzer	X Appendix E	
	40 CFR 60.152(a) (1)	Y		0.65 g particulate matter/kg dry sludge	40 CFR 60.153(b)(3) and BAAQMD Condition 21423, part 13d	С	Temperature Monitors	X Appendix G	
Filterable Particulate	40 CFR 60.152(a) (1)	Y		0.65 g particulate matter/kg dry sludge	40 CFR 60.153(b)(4) and BAAQMD Condition 21423, part 13e	С	Fuel Flow Meter	Х	
	40 CFR 60.152(a) (1)	Y		0.65 g particulate matter/kg dry sludge	40 CFR 60.153(b)(5) and BAAQMD Condition 21423, part 13f	P/D	Sludge Sample and Analysis	Х	

Source #: S-1	0				Source Name: Multiple He	earth Furnace #2	2		
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complia	ance
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
Filterable Particulate	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		80 mg/dscm @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 11/19/19- 11/21/19 NST-5648	
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		80 mg/dscm @ 7% O <sub>2</sub> (combustion chamber operating temperature shall not drop below setpoints for > 15 min in any hour)	40 CFR 62, Subpart LLL, Table 4	С	Hearth 1 Temperature Monitor	NA Awaiting response from USEPA Region 9 on site- specific parametric limit	
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		80 mg/dscm @ 7% O <sub>2</sub> (pressure drop shall not drop below individual furnace scrubber pressure setpoints for > 15 min in any hour)	40 CFR 62.15960, Table 4	С	Wet Scrubber Pressure Drop Meter	NA Awaiting response from USEPA Region 9 on site- specific parametric limit	

Source #: S-1	0				Source Name: Multiple He	earth Furnace #2	2		
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complia	ance
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
Filterable Particulate	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		80 mg/dscm @ 7% O <sub>2</sub> (scrubber liquid flow rate shall not drop below setpoints for > 15 min in any hour)	40 CFR 62.15960, Table 4	С	Wet Scrubber Effluent Liquid Flow Meter	NA Awaiting response from USEPA Region 9 on site- specific parametric limit	
	BAAQMD Condition #21423, part 4	Y		343 mg particulate/dscm (0.15 gr/dscf) of exhaust gas volume	BAAQMD Condition #21423, part 10	P/once every 60 months	Source Test	X 11/19/19- 11/21/19 NST-5648	
Non- Methane Organic Compounds	BAAQMD Condition #21423, Part 12	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD Condition 21423, part 12	С	Hearth 1 Temperature Monitor	X Appendix G	
CH₄	BAAQMD 8-34-301.2	Y		Max Leakage: 1000 ppmvd (as CH₄)	BAAQMD 8-34-503	P/Q	Leak Monitoring	X Appendix J	
Non- Methane Organic Compounds	BAAQMD 8-34-301.4	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD 8-34-507	С	Hearth 1 Temperature Monitor	X Appendix G	

Source #: S-1	0				Source Name: Multiple He	earth Furnace #2	2		
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complia	ance
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
Non- Methane Organic Compounds	BAAQMD 8-34-301.4	N		Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as	BAAQMD 8-34-508	С	Gas Flow Meter	Х	
Non- Methane Organic Compounds	BAAQMD 8-34-301.4	N		methane and at 3% O <sub>2</sub> Emission Reduction: 98% by weight or concentration less than 120 ppmvd Non-Methane Organic Compounds, as methane and at 3% O <sub>2</sub>	BAAQMD 8-34-412	P/A	Source Test	X 11/19/19- 11/21/19 NST-5648	
Hydrogen Chloride	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		1.2 ppmvd @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 11/19/19- 11/21/19 NST-5648	
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		1.2 ppmvd @ 7% O <sub>2</sub>	40 CFR 62.15955, Table 4	С	Scrubber Liquid pH Monitor	NA Awaiting response from USEPA Region 9 on site- specific parametric limit	

Source #: S-1	0				Source Name: Multiple Hearth Furnace #2					
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complia	nce	
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N	
Carbon Monoxide	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		3,800 ppmvd @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 11/19/19- 11/21/19 NST-5648		
Dioxins/ Furans	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		5.0 ng/dscm (total mass basis); or 0.32 ng/dscm (toxic equivalency basis) @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 11/19/19- 11/21/19 NST-5648		
Hydrogen Sulfide	BAAQMD 9-2-301	N		24 Hour Standard: GLC not to exceed 0.06 ppm ave over 3 min and 0.03 ppm ave over 60 min		N		Х		
Lead	BAAQMD 11-1-301, BAAQMD Condition #21423, Part 9	Y		15 lb/day	BAAQMD Condition #21423, part 10	P/once every 60 months	Source Test	X 11/19/19- 11/21/19 NST-5648		
	BAAQMD 11-1-302	Y		Max GLC (w/o background): 1.0 microgram/cu m (24 hour average)		N		Х		

Source #: S-	10				Source Name: Multiple He	earth Furnace #2	2		
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complia	ince
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		0.30 mg/dscm @ 7% O₂	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 11/19/19- 11/21/19 NST-5648	
Be	BAAQMD 11-3-301, BAAQMD Condition #21423, part 6	N		10 g/ 24 hr	BAAQMD Condition #21423, part 10	P/once every 60 months	Source Test	X 11/19/19- 11/21/19 NST-5648	
	40 CFR Part 61.32	Y		10 g/ 24 hr	BAAQMD Condition #21423 <u>.</u> part 10	P/ once every 60 months	Source Test	X 11/19/19- 11/21/19 NST-5648	
Mercury	BAAQMD 11-5-302, Condition #21423, Part 7	N		3200 g/24 hr	BAAQMD Condition #21423, parts 7, 8, 10	P/once every 60 months	Source Test	X 11/19/19- 11/21/19 NST-5648	
	40 CFR Part 61.52 (b)	Y		3.2 kg/24 hr	40 CFR Part 61.53	P/A	Sludge Analysis	Х	

Source #: S-1	0				Source Name: Multiple He	earth Furnace #2	2		
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complia	nce
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		0.28 mg/dscm @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 11/19/19- 11/21/19 NST-5648	
Cadmium	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		0.095 mg/dscm @ 7% O <sub>2</sub>	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 3	P/A	Source Test	X 11/19/19- 11/21/19 NST-5648	
Solid Fuel Feed Rate	Permit Condition #21423, Part 2	Y		60 dry tons sludge/day; 120 dry tons sludge/day for S-9 and S-10 combined	Permit Condition #21423, Part 13a	P/C	Flow Measuring Device	Х	
	Permit Condition #21423, Part 2	Y		20,000 dry tons sludge/ consecutive 12-month period for S-9 and S-10 combined	Permit Condition #21423, Part 13a	P/C	Flow Measuring Device	Х	
Sludge Feed Rate		Y			40 CFR 62, Subpart LLL, Section 15960(f)(1), Table 4	С	Flow Measuring Device	Х	
Sludge Moisture		Y			40 CFR 62, Subpart LLL, Section 15960(f)(1), Table 4	P/D	Sludge Analysis	Х	

Source #: S-1	0				Source Name: Multiple He	earth Furnace #2	2		
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complia	nce
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
Hearth 1	Permit	Υ		1,000 degrees F, rolling 3	Permit Condition	С	Hearth 1	Х	
Minimum	Condition			clock-hour average	#21423,		Temperature	Appendix	
Temperature	#21423,				Part 13d		Monitor	G	
	Part 12								
Fugitive	40 CFR 62,	Υ		5% of the hourly observation	40 CFR 62,	P/A	Visible	Х	
Emissions	Subpart			period	Subpart LLL, Sections		Emission	11/19/19-	
from Ash	LLL,				15980(a) and 16000,		Test	11/21/19	
Handling	Section				Table 3			NST-5648	
	15960(d);								
	Table 3								
Hearth 1	40 CFR 62,	Υ		Awaiting response from USEPA	40 CFR 62,	С	Hearth 1	NA	
Temperature	Subpart			Region 9 on site-specific	Subpart LLL,		Temperature	Awaiting	
	LLL,			parametric limit	Table 4		Monitor	response	
	Section							from	
	15960(d);							USEPA	
	Table 4							Region 9	
								on site-	
								specific	
								parametric	
								limit	

Source #: S-1	0				Source Name: Multiple He	earth Furnace #2	)		
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complia	nce
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
Pressure	40 CFR 62,	Υ		Awaiting response from USEPA	40 CFR 62,	С	Wet	NA	
Drop	Subpart			Region 9 on site-specific	Subpart LLL,		Scrubber	Awaiting	
	LLL,			parametric limit	Table 4		Pressure	response	
	Section						Drop Meter	from	
	15960(d);							USEPA	
	Table 4							Region 9	
								on site-	
								specific	
								parametric	
								limit	
Pressure	40 CFR	Υ		Minimum scrubber pressure	40 CFR 64	С	Wet	Х	
Drop	60.152(a)			drop: 5.9" W.C			Scrubber	Appendix	
	(1);						Pressure	D	
	BAAQMD						Drop Meter		
	6-1-310.1,								
	SIP								
	6-310.1;								
	BAAQMD								
	6-1-311,								
	SIP								
	6-311;								

Source #: S-1	0				Source Name: Multiple He	earth Furnace #2	2		
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complia	ance
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
Scrubber	40 CFR 62,	Υ		Awaiting response from USEPA	40 CFR 62,	С	Wet	NA	
Liquid Flow	Subpart			Region 9 on site-specific	Subpart LLL,		Scrubber	Awaiting	
	LLL,			parametric limit	Table 4		Effluent	response	
	Section						Liquid Flow	from	
	15960(d);						Meter	USEPA	
	Table 4							Region 9	
								on site-	
								specific	
								parametric	
								limit	
pH of	40 CFR 62,	Υ		Awaiting response from USEPA	40 CFR 62,	С	Scrubber	NA	
Scrubber	Subpart			Region 9 on site-specific	Subpart LLL,		Liquid pH	Awaiting	
Liquid	LLL,			parametric limit	Table 4		Monitor	response	
	Section							from	
	15960(d);							USEPA	
	Table 4							Region 9	
								on site-	
								specific	
								parametric	
								limit	

#### S-24 CENTRIFUGES AND CAKE HOPPERS

Source #: S-2	4				Source Name: Centrifuge	s and Cake Hop	pers		
Type of Limit	Limit Citation	FE Y/N	Future Effective	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Complia	nce
Lillin	Citation	1/19	Date		Requirement Citation	(P/C/N)	туре	Y	N
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1		N		Х	
	SIP 6-301	Υ		Ringelmann No. 1		N		Х	
Filterable Particulate	BAAQMD 6-1-310	N		0.15 grains/dscf		N		Х	
	SIP 6-310	Υ		0.15 grains/dscf		N		Х	
	BAAQMD 6-1-311	N		4.10P <sup>0.67</sup> lb/hr, where P is process weight, ton/hr		N		Х	
	SIP 6-311	Υ		4.10P <sup>0.67</sup> lb/hr, where P is process weight, ton/hr		N		Х	
Hydrogen Sulfide	BAAQMD 9-2-301	N		24 Hour Standard: GLC not to exceed 0.06 ppm ave over 3 min and 0.03 ppm ave over 60 min		N		Х	
Hydrogen Sulfide	BAAQMD Condition #1716, Part 1	N		1.5 ppmvd		N		Х	

#### S-25 GASOLINE DISPENSING FACILITY

Source #: S-25	5				Source Name: Gasoline Dispensing Facility				
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complia	nce
Limit	Citation	Y/N	Effective		Requirement Citation	Frequency	Туре	V	N
			Date			(P/C/N)		Ť	N
Gasoline	Condition	N		400,000 gallons in any	Condition #7523	P/M	Records	Χ	
Throughput	#7523,			consecutive 12-month period	Part 2			Appendix	
	Part 1							Н	

#### S-180 DISSOLVED AIR FLOTATION UNITS AND SLUDGE BLENDING TANKS

Source #: S-1	80				Source Name: Dissolved Air Flotation Units and Sludge Blending Tanks					
Type of Limit	Limit Citation	FE	Future Effective	Limit	Monitoring	Monitoring	Monitoring	Complia	ance	
Limit	Citation	1/IN	Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N	
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1		N		Х		
Ораспу	SIP 6-301	Y		Ringelmann No. 1		N		X		

#### S-182 ASH CONVEYING SYSTEM

Source #: S-18	82				Source Name: Ash Conveying System				
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complia	ance
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1	BAAQMD Condition #21425, part 4	С	Mikro- Charge LeakGauge Particulate Monitor/ Alarm	Х	

Source #: S-1	82				Source Name: Ash Conve	eying System			
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complia	nce
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Υ	N
	SIP 6-301	Y		Ringelmann No. 1	BAAQMD Condition #21425, part 4	С	Mikro- Charge LeakGauge Particulate Monitor/ Alarm	Х	
	BAAQMD 6-1-301	N		Ringelmann No. 1	BAAQMD Condition #21425, part 5	P/D	Operator Visual Stack Inspection	Х	
	SIP 6-301	Y		Ringelmann No. 1	BAAQMD Condition #21425, part 5	P/D	Operator Visual Stack Inspection	Χ	
Filterable Particulate	BAAQMD 6-1-310	N		0.15 grains/dscf	BAAQMD Condition #21425, part 4	С	Mikro- Charge LeakGauge Particulate Monitor/ Alarm	Х	
	SIP 6-310	Y		0.15 grains/dscf	BAAQMD Condition #21425, part 4	С	Mikro- Charge LeakGauge Particulate Monitor/ Alarm	Х	
	BAAQMD 6-1-310	N		0.15 grains/dscf	BAAQMD Condition #21425, part 5	P/D	Operator Visual Stack Inspection	Х	

Source #: S-1	82				Source Name: Ash Conve	eying System			
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complia	nce
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
	SIP 6-310	Y		0.15 grains/dscf	BAAQMD Condition #21425, part 5	P/D	Operator Visual Stack Inspection	X	
	BAAQMD 6-1-311	Z		4.10P <sup>0.67</sup> lb/hr, where P is process weight, ton/hr	BAAQMD Condition #21425, part 4	С	Mikro- Charge LeakGauge Particulate Monitor/ Alarm	Х	
	SIP 6-311	Y		4.10P <sup>0.67</sup> lb/hr, where P is process weight, ton/hr	BAAQMD Condition #21425, part 4	С	Mikro- Charge LeakGauge Particulate Monitor/ Alarm	X	
	BAAQMD 6-1-311	Z		4.10P <sup>0.67</sup> lb/hr, where P is process weight, ton/hr	BAAQMD Condition #21425, part 5	P/D	Operator Visual Stack Inspection	X	
	SIP 6-311	Y		4.10P <sup>0.67</sup> lb/hr, where P is process weight, ton/hr	BAAQMD Condition #21425, part 5	P/D	Operator Visual Stack Inspection	X	
Filterable Particulate	40 CFR 62, Subpart LLL, Section 15955; Table 3	Y		Visible emissions for no more than 5% of every hour	40 CFR 62, Subpart LLL, Sections 15980(a) and 16000, Table 4	P/A	Visible Emissions Test	X 10/20/20- 10/21/20	

#### S-188 NATURAL GAS FIRED TURBINE GENERATOR WITH HRSG

Source #: S-1	88				Source Name: Natura	al Gas Fired Tu	ırbine Generat	or with HRSG	
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Compliance	9
Limit	Citation	Y/N	Effective		Requirement	Frequency	Type	Υ	N
			Date		Citation	(P/C/N)		ı	IN
Oxides of	BAAQMD	Ν		42 ppmvd @ 15% O <sub>2</sub>	BAAQMD	С	CEM	X	
Nitrogen	9-9-301.1.1			3-hr average	Condition #21485,			RCA 07Y82 for	
					part 11			inoperative CEMS	
Oxides of	SIP	Υ		42 ppmvd @ 15% O <sub>2</sub>	BAAQMD	С	CEM	X DOA 07\/00 for	
Nitrogen	9-9-301.1			3-hr average	Condition #21485,			RCA 07Y82 for inoperative CEMS	
					part 11			·	
Oxides of	BAAQMD	Ν		2.12 lb/MW-hr or 42 ppmvd	BAAQMD	С	CEM	X DOA 07\/00 for	
Nitrogen	9-9-301.2			@ 15% O <sub>2</sub>	Condition #21485,			RCA 07Y82 for inoperative CEMS	
				3-hr average	part 11			·	
	40 CFR	Υ		167 ppm (dry basis) @ 15%	40 CFR 60.334(b)	С	CEM	X RCA 07Y82 for	
	Part			O <sub>2</sub> on a clock-hour basis	BAAQMD			inoperative CEMS	
	60.332(a)(				Condition #21485,			moperative of the	
	2) and (c)				part 11				
Oxides of	BAAQMD	Υ		42 ppmvd @ 15% O <sub>2</sub>	BAAQMD	С	CEM	X DCA 07\/00 for	
Nitrogen	Condition			3-hr average	9-9-501, BAAQMD			RCA 07Y82 for inoperative CEMS	
	#21485,				Condition #21485,			moperative of the	
_	Part 2				part 11				
	BAAQMD	Υ		118 lb/day	BAAQMD	С	CEM	X RCA 07Y82 for	
	Condition				Condition #21485,			inoperative CEMS	
	#21485,				part 11				
	part 4								
	BAAQMD	Υ		19.824 tons/rolling 365-day	BAAQMD	С	CEM	X RCA 07Y82 for	
	Condition			period	Condition #21485,			inoperative CEMS	
	#21485,				part 11				
	part 5								

Source #: S-1	88				Source Name: Natura	al Gas Fired Tu	urbine Generato	r with HRSG	
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Compliand	е
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
Carbon Monoxide	BAAQMD Condition #21485, part 6	Y		157 lb/24 hour	BAAQMD Condition #21485, part 9a	P/A	Source Test	X 3/31/21 NST-6415	
	BAAQMD Condition #21485, part 7	Y		26.376 tons/rolling 365-day period	BAAQMD Condition #21485, part 9a	P/A	Source Test	X 3/31/21 NST-6415	
	BAAQMD Condition #21485, part 9b	Z		118 lb/24 hour	BAAQMD Condition #21485, part 9b	P/Q&M	Portable Analyzer	Х	
Sulfur Dioxide	BAAQMD 9-1-301	Y		GLC 0.5 ppm (3 min ave) 0.25 ppm (60 min ave) 0.05 ppm (24-hour average)		N		Х	
Sulfur Dioxide	BAAQMD 9-1-302	N		300 ppmvd		N		Х	
	NSPS Subpart GG, 60.333(b)	Y				N		Х	
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1		N		Х	
	SIP 6-301	Y		Ringelmann No. 1		N		Х	

Source #: S-18	38				Source Name: Natura	al Gas Fired Tu	ırbine Generat	or with HRSG	
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Complianc	е
Limit	Citation	Y/N	Effective		Requirement	Frequency	Туре	٧	N
			Date		Citation	(P/C/N)		•	IN
Filterable	BAAQMD	N		0.15 grains/dscf @ 6% O <sub>2</sub>		N		X	
Particulate	6-1-310.3								
	SIP	Υ		0.15 grains/dscf @ 6% O <sub>2</sub>		N		X	
	6-310.3								
Fuel usage	BAAQMD	Υ		≤ 49.5 MMBtu/hr (HHV) on	BAAQMD	P/D	Records	X	
	Condition			any fuel	Condition #21485,				
	#21485,				part 12				
	part 1b								

#### S-195 EMERGENCY STANDBY DIESEL GENERATOR #1

Source #: S-1	95				Source Name: Emergenc	y Standby Diese	el Generator #1		
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Compl	liance
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
Sulfur Dioxide	BAAQMD 9-1-301	N		GLC <sup>1</sup> of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05		N		Х	
	BAAQMD 9-1-304	Y		ppm for 24 hours  Sulfur content of fuel < 0.5% by weight		N		Х	
Opacity	BAAQMD 6-1-303	N		> Ringelmann No. 2 for no more than 3 minutes/hr		N		Х	
	SIP 6-303	Y		> Ringelmann No. 2 for no more than 3 minutes/hr		N		Х	
Filterable Particulate	BAAQMD 6-1-310	N		0.15 grains/dscf		N		Х	
	SIP 6-310	Υ		0.15 grains/dscf		N		Х	
Hours of operation	BAAQMD 9-8-330.1	Y		Emergency use for an unlimited number of hours	BAAQMD Cond# 22850, Parts 3 and 4	P/E	Meter, Records	Х	
	BAAQMD 9-8-330.2	Y		Reliability-related activities not to exceed 100 hours in any calendar year	BAAQMD Cond# 22850, Part 3 and 4	P/E	Meter, Records	Х	
	ATCM 93155.6(a) (3) (A)(2)	N		Reliability-related activities not to exceed 100 hours in any year	BAAQMD Cond# 22850, Part 3 and 4	P/E	Meter, Records	Х	

#### S-196 EMERGENCY STANDBY DIESEL GENERATOR #3

Source #: S-1	96				Source Name: Emergenc	y Standby Diese	el Generator #3		
Type of	Limit	FE	Future	Limit	Monitoring	Monitoring	Monitoring	Compl	liance
Limit	Citation	Y/N	Effective Date		Requirement Citation	Frequency (P/C/N)	Туре	Y	N
Sulfur Dioxide	BAAQMD 9-1-301	N		GLC <sup>1</sup> of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05		N		Х	
	BAAQMD 9-1-304	Υ		ppm for 24 hours  Sulfur content of fuel <0.5% by weight		N		Х	
Opacity	BAAQMD 6-1-303	N		> Ringelmann No. 2 for no more than 3 minutes/hr		N		X	
	SIP 6-303	Υ		> Ringelmann No. 2 for no more than 3 minutes/hr		N		Х	
Filterable Particulate	BAAQMD 6-1-310	N		0.15 grains/dscf		N		Х	
	SIP 6-310	Υ		0.15 grains/dscf		N		Х	
Hours of operation	BAAQMD 9-8-330.1	Y		Emergency use for an unlimited number of hours	BAAQMD Cond# 22850, Parts 3 and 4	P/E	Meter, Records	Х	
	BAAQMD 9-8-330.2	Y		Reliability-related activities not to exceed 100 hours in any calendar year	BAAQMD Cond# 22850, Part 3 and 4	P/E	Meter, Records	X	
	ATCM 93155.6(a) (3) (A)(2)	N		Reliability-related activities not to exceed 100 hours in any year	BAAQMD Cond# 22850, Part 3 and 4	P/E	Meter, Records	Х	

## **APPENDIX B**

# **BAAQMD PERMITTED SOURCES**

## **APPENDIX B**

Central Contra Costa Sanitary District, Plant No. A0907 BAAQMD Sources

January 1, 2021 through December 31, 2021

BAAQMD Source No.	Permitted Source Description	Abated By	Abatement Device Description
7	Auxiliary Boiler #1	N/A	N/A
8	Auxiliary Boiler #2	N/A	N/A
9	Furnace #1	A-1	Multiple Cyclone
9	rumace #1	A-2	Impingement Plate
10	Furnace #2	A-3	Multiple Cyclone
10	Furnace #2	A-4	Impingement Plate
24	Centrifuges & Cake Hoppers (four units)	A-14	Packed Bed Scrubber
24	Centifidges & Cake Hoppers (four units)	A-15	Packed Bed Scrubber
25	Gasoline Dispensing Facility	N/A	N/A
100	Wastewater Treatment Plant - Fugitive Emissions	N/A	N/A
110	Preliminary Treatment - Influent Structure,	A-23	Preformed Spray Scrubber
110	Influent Pumping, Bar Screens, and Grinders	A-24	Preformed Spray Scrubber
120	Primary Treatment - Aerated Grit Chamber (covered) and Four Primary Sedimentation Tanks	A-120	Preformed Spray Scrubber
130	Flow Equalization - Wastewater Holding Ponds	N/A	N/A
140	Secondary Treatment - Two Aerated Effluent Channel, Non-Aerated Section, and Primary Sediment to Aeration Basin Units	N/A	N/A
150	Secondary Clarifiers - Aerated Effluent Channel, and Aeration Basins to Secondary Clarifiers	N/A	N/A
160	Tertiary Treatment - Four Gravity Filtration Units and Gravity Filtration Forebay	N/A	N/A
170	Disinfection - Aerated Effluent Channel and Secondary Clarifiers to Ultraviolet Disinfection	N/A	N/A
	Sludge Handling Processes - Three Dissolved	A-14	Packed Bed Scrubber
180	Air Flotation Units and One Sludge Blending	A-15	Packed Bed Scrubber
	Tank	A-187	Scrubber
		A-186	Baghouse, Pulse Jet
182	Ash Convoying System	A-191	Simple Cyclone
102	Ash Conveying System	A-192	Baghouse, Pulse Jet
		A-196	Baghouse, Pulse Jet
183	Pressure Tank, Liquefied Propane Gas	N/A	N/A
184	Liquefied Propane Gas Vaporizer	A-184	Flare
185	Lime Slaker/Lime Solution Storage Tank	A-185	Preformed Spray Scrubber
186	4% KMnO4 Solution Storage Tank	N/A	N/A
188	Cogeneration Turbine with Heat Recovery Steam Generator	A-188	Oxidation Catalyst
195	Standby Diesel Engine, 3048 Hp	A-1195	Catalyzed Diesel Particulate Filter
196	Standby Diesel Engine, 3048 Hp	A-1196	Catalyzed Diesel Particulate Filter
197	Sludge Loading Facility	A-199	Adsorption, Potassium Permanganate-impregnated Alumina and Coconut

## **APPENDIX C**

# **AUXILIARY BOILERS (S-7 AND S-8)**

## FIRST PASS TEMPERATURE

#### **APPENDIX C**

Central Contra Costa Sanitary District, Plant No. A0907 Auxiliary Boilers Three-Clock Hour First Pass Minimum Temperature Monitoring Summary January 1, 2021 through December 31, 2021

	Auxiliary B	oiler No. 1 (S-7) Th	ree-Clock Hour First	Pass Minimum Ten	nperature
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
July			0.00	100.00%	No exceedances
August			0.00	100.00%	No exceedances
September			0.00	100.00%	No exceedances
October			0.00	100.00%	No exceedances
November			0.00	100.00%	No exceedances
December			0.00	100.00%	No exceedances

**Total exceedances (Hours):** 

0

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

100.00%

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
July			0.00	100.00%	No exceedances
August			0.00	100.00%	No exceedances
September			0.00	100.00%	No exceedances
October			0.00	100.00%	No exceedances
November			0.00	100.00%	No exceedances
December			0.00	100.00%	No exceedances

Total exceedances (Hours):

0

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

100.00%

## **APPENDIX D**

# **FURNACES (S-9 AND S-10)**

## WET SCRUBBER PRESSURE DROP READINGS

#### **APPENDIX D**

Central Contra Costa Sanitary District, Plant No. A0907 Furnaces Wet Scrubber Minimum Pressure Drop Monitoring Summary January 1, 2021 through December 31, 2021

	Furnace No. 1 (S-9)	Wet Scrubber Min	imum Pressure Dro	p, Minimum 15-Minu	ite 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%	No exceedances
April			0.00	100.00%	No exceedances
May			0.00	100.00%	No exceedances
June			0.00	100.00%	No exceedances
July			0.00	100.00%	No exceedances
August			0.00	100.00%	No exceedances
September			0.00	100.00%	No exceedances
October			0.00	100.00%	No exceedances
November			0.00	100.00%	No exceedances
December			0.00	100.00%	No exceedances

**Total exceedances (Hours):** 

0.00

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

100.00%

	Furnace No. 2 (S-10)	wet Scrupper Will	inimum 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	Comments			
	,	,		the Month)				
January			0.00	100.00%	S-10 offline			
February			0.00	100.00%	S-10 offline			
March			0.00	100.00%	S-10 offline			
April			0.00	100.00%	S-10 offline			
May			0.00	100.00%	S-10 offline			
June			0.00	100.00%	S-10 offline			
July			0.00	100.00%	S-10 offline			
August			0.00	100.00%	S-10 offline			
September			0.00	100.00%	S-10 offline			
October			0.00	100.00%	S-10 offline			
November			0.00	100.00%	S-10 offline			
December			0.00	100.00%	S-10 offline			

**Total exceedances (Hours):** 

0.00

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

100.00%

## **APPENDIX E**

# **FURNACES (S-9 AND S-10)**

## **OXYGEN READINGS**

#### **APPENDIX E**

Central Contra Costa Sanitary District, Plant No. A0907 Furnaces Oxygen Monitoring Summary January 1, 2021 through December 31, 2021

		Furnace No. 1 (S-9	) Oxygen, Maximur	n Hour Limit: 10%	
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 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
July			0.00	100.00%	No excursions
August			0.00	100.00%	No excursions
September			0.00	100.00%	No excursions
October			0.00	100.00%	No excursions
November			0.00	100.00%	No excursions
December			0.00	100.00%	No excursions

**Total Excursions (Hours):** 

0

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

100.00%

		Furnace No. 2 (S-1	.0) Oxygen, Maximu	m Hour Limit: 10%	
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%	S-10 offline
February			0.00	100.00%	S-10 offline
March			0.00	100.00%	S-10 offline
April			0.00	100.00%	S-10 offline
May			0.00	100.00%	S-10 offline
June			0.00	100.00%	S-10 offline
July			0.00	100.00%	S-10 offline
August			0.00	100.00%	S-10 offline
September			0.00	100.00%	S-10 offline
October			0.00	100.00%	S-10 offline
November			0.00	100.00%	S-10 offline
December			0.00	100.00%	S-10 offline

**Total Excursions (Hours):** 

0

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

100.00%

## **APPENDIX F**

# **FURNACES (S-9 AND S-10)**

## **OPACITY READINGS**

#### **APPENDIX F**

Central Contra Costa Sanitary District, Plant No. A0907 Furnaces Opacity Monitoring Summary January 1, 2021 through December 31, 2021

	Furnace No. 1 (S-9) Opacity, Maximum Limit: 20%					
Month	Exceedance Start Date/Time	Exceedance 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	
July			0.00	100.00%	No excursions	
August			0.00	100.00%	No excursions	
September			0.00	100.00%	No excursions	
October	10/24/21 22:52	10/24/21 23:49	0.21	99.97%	RCA 08C66 12 min, 20 sec	
November			0.00	100.00%	No excursions	
December			0.00	100.00%	No excursions	

**Total Excursions (Hours):** 

0.21

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

99.998%

	Furnace No. 2 (S-10) Opacity, Maximum Limit: 20%					
Month	Exceedance Start Date/Time	Exceedance End Date/Time	Duration (Hours)	Duration Below Limit (% of Total Available Hours in the Month)	Comments	
January			0.00	100.00%	S-10 offline	
February			0.00	100.00%	S-10 offline	
March			0.00	100.00%	S-10 offline	
April			0.00	100.00%	S-10 offline	
May			0.00	100.00%	S-10 offline	
June			0.00	100.00%	S-10 offline	
July			0.00	100.00%	S-10 offline	
August			0.00	100.00%	S-10 offline	
September			0.00	100.00%	S-10 offline	
October			0.00	100.00%	S-10 offline	
November			0.00	100.00%	S-10 offline	
December			0.00	100.00%	S-10 offline	

Total Excursions (Hours):

0.00

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

100.000%

## **APPENDIX G**

## **FURNACES (S-9 AND S-10)**

## **HEARTH TEMPERATURES**

### **APPENDIX G**

Central Contra Costa Sanitary District, Plant No. A0907 Furnaces Hearth Temperature Monitoring Summary January 1, 2021 through December 31, 2021

	Furnace No. 1 (S-9) Hearth Minimum Temperatures					
Month	Excursion Start Date/Time	Excursion End Date/Time	Hearth	Duration (Hours)	Duration Above Limit (% of Total Available Hours in the Month)	Comments
	01/09/21 09:00	01/09/21 11:00	6	2.00		
	01/15/21 10:00	01/15/21 13:00	6	3.00		
lanuani	01/15/21 15:00	01/15/21 16:00	6	1.00	99.85%	
January	01/15/21 18:00	01/15/21 19:00	6	1.00	99.00%	
	01/15/21 20:00	01/15/21 22:00	6	2.00		
	01/16/21 17:00	01/16/21 20:00	6	3.00		
February	02/02/21 07:00	02/02/21 11:00	6	4.00	99.95%	
March	03/29/21 16:00	03/29/21 17:00	6	1.00	99.99%	
April	04/18/21 11:00	04/18/21 12:00	6	1.00	99.99%	
May	05/19/21 14:00	05/19/21 15:00	6	1.00	99.99%	
June	06/28/21 02:00	06/28/21 03:00	6	1.00	99.99%	
July				0.00	100.00%	No excursions
August	08/11/21 00:00	08/11/21 03:00	6	3.00	99.95%	
August	08/11/21 02:00	08/11/21 03:00	5	1.00	99.95%	
September				0.00	100.00%	No excursions
Ostobor	10/22/21 06:00	10/22/21 07:00	6	1.00	00.000/	
October	10/25/21 11:00	10/25/21 12:00	6	1.00	99.98%	
November			_	0.00	100.00%	No excursions
Dagambar	12/02/21 09:00	12/02/21 11:00	6	2.00	00.069/	
December	12/12/21 12:00	12/12/21 13:00	6	1.00	99.96%	

**Total Excursions (Hours):** 

29

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

99.67%

Furnace No. 2 (S-10) Hearth Minimum 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				0.00	100.00%	S-10 offline
February				0.00	100.00%	S-10 offline
March				0.00	100.00%	S-10 offline
April				0.00	100.00%	S-10 offline
May				0.00	100.00%	S-10 offline
June				0.00	100.00%	S-10 offline
July				0.00	100.00%	S-10 offline
August				0.00	100.00%	S-10 offline
September				0.00	100.00%	S-10 offline
October				0.00	100.00%	S-10 offline
November				0.00	100.00%	S-10 offline
December				0.00	100.00%	S-10 offline

**Total Excursions (Hours):** 

0

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

100.00%

## **APPENDIX H**

## **GASOLINE DISPENSING FACILITY (S-25)**

## **GASOLINE METER READINGS**

#### **APPENDIX H**

Central Contra Costa Sanitary District, Plant No. A0907 Gasoline Dispensing Facility Gasoline Meter Readings Summary January 1, 2021 through December 31, 2021

Month	Gasoline Meter Readings (gallons)	Rolling 12-month Total (gallons)	Quarterly Total (gallons)	12-month Total (gallons)
January	523	415		
February	524	414	131	
March	653	542		
April	724	612		
May	781	667	216	
June	869	719		722
July	950	738		722
August	1,048	764	237	
September	1,106	749		
October	1,195	791		
November	1,228	708	138	
December	1,244	722		

Consecutive 12-month Maximum Limit:

400,000

#### **APPENDIX I**

## **SULFUR DIOXIDE CONCENTRATIONS**

## FROM LANDFILL GAS AND NATURAL GAS COMBUSTION

(QUARTERLY REQUIREMENT)

## **APPENDIX I (Quarterly Requirement)**

Central Contra Costa Sanitary District, Plant No. A0907 Quarterly  $SO_2$  Concentration Summary January 1, 2021 through December 31, 2021

	SO <sub>2</sub> Concentration from Landfill Gas Combustion					
Month	HHV (BTU/scf)	H <sub>2</sub> S Concentration (ppm)	Quarterly Average HHV (BTU/scf)	Quarterly Max H₂S Concentration (ppm)	Max SO <sub>2</sub> Discharge from LFG Combustion in Boilers and MHFs @ 0% O <sub>2</sub> (ppm)	
January	521	50.0				
February	532	49.0	531	52.0	10.4	
March	539	52.0				
April	539	45.0				
May	533	44.0	532	50.0	10.0	
June	524	50.0				
July	514	56.0				
August	514	42.0	515	56.0	11.5	
September	516	40.0				
October	508	21.0				
November	521	38.0	521	42.0	8.5	
December	535	42.0				

Limit: 300 ppm

Limit: 300 ppm

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

SO <sub>2</sub> (	SO <sub>2</sub> Concentration from Natural Gas Combustion					
			Max SO <sub>2</sub>			
	Most Recent Total		Discharge from			
Quarter	Sulfur Maximum	Average Heating	NG Combustion in			
<b>4</b>	(gr/100 scf)	Value (J15) (BTU)	Boilers, MHFs, and			
	(8.7 200 30.7		Cogen @ 0% O <sub>2</sub>			
			(ppm)			
First	0.26	1,039	0.48			
Second	0.29	1,032	0.53			
Third	0.40	1,040	0.73			
Fourth	0.26	1,043	0.47			

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

## **APPENDIX J**

## **TOTAL ORGANIC CARBON LEAKS – LANDFILL GAS SYSTEM**

(QUARTERLY REQUIREMENT)

## **APPENDIX J (Quarterly Requirement)**

Central Contra Costa Sanitary District, Plant No. A0907 Quarterly Total Organic Carbon Leak Checks Summary January 1, 2021 through December 31, 2021

Landfill Gas System at Central San				
Quarter	Date of Leak Check	No. of Leaks >1000 ppm Detected and Repaired		
First	02/23/21	0		
Second	06/17/21	0		
Third	08/17/21	4		
Fourth	11/29/21	0		

Landfill Gas Delivery System Operated by Acme Landfill				
Quarter	Date of Leak Check	No. of Leaks >1000 ppm Detected and Repaired		
First	03/25/21	0		
Second	06/30/21	0		
Third	09/29/21	0		
Fourth	12/15/21	0		

#### **Certificate Of Completion**

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Martinez, CA 94553-4392 hfryman@centralsan.org IP Address: 98.42.35.160

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#### Signer Events

Robert Hess

rhess@centralsan.org Assistant Engineer

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Signature

RH

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Rita Cheng

rcheng@centralsan.org Associate Engineer

CCCSD

Security Level: Email, Account Authentication

(None)

Signature Adoption: Uploaded Signature Image

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Lori Schectel

Ischectel@centralsan.org

Envtl&Reg Compliance Div Manager

Security Level: Email, Account Authentication (None)

Signature Adoption: Drawn on Device Using IP Address: 174.194.204.14

Signed using mobile

**Electronic Record and Signature Disclosure:** 

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ID: da7a07eb-cf73-4116-bfc2-c4c123410c55

Nate Morales

nmorales@centralsan.org

Senior Engineer

Security Level: Email, Account Authentication

(None)

NAM

Signature Adoption: Pre-selected Style

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smcdonald@centralsan.org	Steve McDonald	Viewed: 1/31/2022 8:55:29 AM
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Carbon Copy Events	Status	Timestamp
Witness Events	Signature	Timestamp
Notary Events	Signature	Timestamp
Envelope Summary Events	Status	Timestamps
Envelope Sent Certified Delivered Signing Complete	Hashed/Encrypted Security Checked Security Checked	1/27/2022 4:23:57 PM 1/31/2022 8:55:29 AM 1/31/2022 8:57:08 AM 1/31/2022 8:57:08 AM
Completed	Security Checked	1/3 1/2022 6.57.06 AWI
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Operating Systems:	Windows® 2000, Windows® XP, Windows Vista®; Mac OS® X
Browsers:	Final release versions of Internet Explorer® 6.0 or above (Windows only); Mozilla Firefox 2.0 or above (Windows and Mac); Safari <sup>TM</sup> 3.0 or above (Mac only)
PDF Reader:	Acrobat® or similar software may be required to view and print PDF files

Screen Resolution:	800 x 600 minimum
Enabled Security Settings:	Allow per session cookies

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