



GOLETA SANITARY

Water Resource Recovery District

February 15, 2022

Board of Directors:

Steven T. Majoewsky
President

George W. Emerson

Sharon Rose

Edward Fuller

Jerry D. Smith

Steve D. Wagner, PE
General Manager
District Engineer

Santa Barbara County APCD
ATTN: Annual Reports
260 N. San Antonio Road, Suite A
Santa Barbara, California 93110-1315

SUBJECT: Goleta Sanitary District 2021 Annual Report

Facility ID# 01528 and 11309

Dear Sir or Madam:

In accordance with PTO#'s 08561-R9/PTO# 08561-R10 and 13447-R3, attached is the Goleta Sanitary District 2021 Consolidated Annual Report. If there are any questions, please contact Mr. John Crisman at (805) 967-4519.

Sincerely,

Steve D. Wagner, PE
General Manager/District Engineer

One William Moffett Place, Goleta CA 93117

(805) 967-4519 office (805) 964-3583 fax

www.GoletaSanitary.org

Goleta Sanitary District

Air Pollution Control Consolidated Annual 2021 Report

Facility ID # 01528

PTO # 08561-R9/PTO #08561-R10

And

Facility ID # 11309

PTO # 13447-R3

County of Santa Barbara Air Pollution Control District

Submitted by: Steve D. Wagner, PE

General Manager/District Engineer

Summary

The following information summarizes the compliance and reporting measures taken by Goleta Sanitary District (GSD) for calendar year 2021. GSD operates the regional water resource recovery facility located at

One William Moffett Place
Goleta, Ca 93117
(805) 967-4519

with the corresponding facility ID# 01528 using PTO# 08561-R9/PTO #08561-R10. During the reporting year the PTO was reviewed and a renewed PTO was issued on November 16, 2021. This Annual Report meet the requirements of both PTO# 08561-R9 and PTO# 08561-R10. GSD also operates an offsite wastewater pumping station located at

101 John Donaldson Place
Santa Barbara, CA 93117
(805) 967-4519

with corresponding facility ID# 11309 using PTO# 13447-R3. During the calendar year of 2021 Goleta Sanitary District met all conditions of the previously mentioned permits.

Digester Gas System

In compliance with PTO# 08561-R9/PTO #08561-R10, GSD monitored its anaerobic digestion system, and all related appurtenances making daily checks ensuring that there were no leaks or equipment malfunctions. The sulfur content of the digester gas was monitored daily between the hours of 4-11 a.m. using colorimetric gas tubes. The hydrogen sulfide content never exceeded the maximum of 239 ppm and the annual average was 58 ppm. Attached is the list of daily readings and the time in which they were taken. The moving weekly average and annual averages are also included in the table located in the attachments. The digester gas Heating Value Measurement was taken in accordance with the ASTM D-1945 method and the average of the tests was found to be 619 BTU/cf. The full fuel analysis report is included in the attachments.

Digester Gas Flare

In compliance with PTO# 08561-R9/PTO #08561-R10, GSD operated the digester gas primary flare (Device ID: 113016) 365 days of 2021. During this time a flame was always present in the flare and the opacity level never exceeded a shade of No. 1 on the Ringelmann Chart for any amount of time. The backup flare (Device ID: 006239) was not operated this year. All calibration records for the flare flow meters are included in the attachments. The flow of digester gas never exceeded the limit of 187,000 scf/day. All reportable flow measurements are included in the following attachments.

Digester Gas Fired Boiler

In compliance with PTO# 08561-R9/PTO #08561-R10, GSD operated its digester gas boiler #2 (Device ID: 388861) a total of 361 days in 2021. The volume of digester gas burned the boiler never exceeded the daily maximum of 83,630 scf. The Boiler was checked daily for proper operation. The monthly total gas combusted in the boiler and the number of days in each month that the boiler operated was recorded and is included in the following attachments. The most recent calibration record for the boiler digester gas flow meter is included in the following attachments. Boiler #2 was tuned to factory specifications on April 14th 2021.

Odor Control System

In compliance with PTO# 08561-R9/PTO #08561-R10, GSD operated the headworks Odor Control System (Device ID: 113019) and Carbon Canister (Device ID: 104281) 365 days of the year in accordance with the manufacturer's recommendations. The lift station odor control carbon canister and headworks odor control system were checked for hydrogen sulfide breakthrough on a monthly basis. During the reporting period there was not any measurable breakthrough. The monthly sample values and dates are included in the following attachments.

Diesel Fired Emergency Standby Generators

In compliance with PTO# 08561-R9/PTO #08561-R10 and PTO# 13447-R3, GSD operated its emergency standby generators. Generator 1 (Device ID: 113017) was operated for 12.1 hours during emergency use and 21.2 hours for maintenance and testing. Generator 2 (Device ID: 113018) was operated for 12.2 hours during emergency use and 20.6 hours for maintenance and testing. During the 2021 year, GSD was asked to self-generate during declared emergencies, to reduce demand on the State's electrical system. Firestone pumping station's emergency generator (Device ID: 113115) was operated for 2.2 hours during emergency use and 21.9 hours for maintenance and testing. An ENF-92 form is included in the following attachments for each generator. Also included is a letter of conformance from both of our diesel suppliers demonstrating that all fuel used meets the requirements of the ATCM.

List of Attachments

- Digester Gas Sulfur Content Monitoring (3 pages)
- Certificate of Analysis, Digester Heating value (3 pages)
- Boiler and Flare Monitoring (1 page)
- Boiler #2 Tune-Up (1 page)
- Mass Flow Meter Calibration Certificate, Primary Flare (1 page)
- Mass Flow Meter Calibration Certificate, Backup Flare (1 page)
- Mass Flow Meter Calibration Certificate, Boiler #2 (1 page)
- Odor Control Breakthrough Monitoring (1 page)
- ENF-92 Generator #1 (2 page)
- ENF-92 Generator #2 (2 page)
- ENF-92 Firestone Pump Station Generator (2 page)
- Letter of Conformance for the ATCM, Diesel Fuel (2 pages)

All Reading in PPM hydrogen sulfide using a colorimetric gas tube.

Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg
01/01/21	50	620	40	02/01/21	59	702	47	03/01/21	40	642	40	04/01/21	50	728	39
01/02/21	50	620	40	02/02/21	70	637	51	03/02/21	40	709	40	04/02/21	50	645	39
01/03/21	40	700	42	02/03/21	50	712	54	03/03/21	30	632	37	04/03/21	40	630	39
01/04/21	40	630	42	02/04/21	45	720	53	03/04/21	45	709	39	04/04/21	50	650	41
01/05/21	40	715	41	02/05/21	50	710	55	03/05/21	50	653	39	04/05/21	50	640	44
01/06/21	40	647	43	02/06/21	50	745	56	03/06/21	40	630	39	04/06/21	35	720	44
01/07/21	40	725	43	02/07/21	50	837	53	03/07/21	40	645	41	04/07/21	50	630	46
01/08/21	50	725	43	02/08/21	40	637	51	03/08/21	50	639	42	04/08/21	40	715	45
01/09/21	50	630	43	02/09/21	25	633	44	03/09/21	40	707	42	04/09/21	50	724	45
01/10/21	50	710	44	02/10/21	50	635	44	03/10/21	50	710	45	04/10/21	50	635	46
01/11/21	50	700	46	02/11/21	30	634	42	03/11/21	30	635	43	04/11/21	65	650	49
01/12/21	45	715	46	02/12/21	60	718	44	03/12/21	50	607	43	04/12/21	40	640	47
01/13/21	50	720	48	02/13/21	40	630	42	03/13/21	40	625	43	04/13/21	40	643	48
01/14/21	50	720	49	02/14/21	25	805	39	03/14/21	40	649	43	04/14/21	40	633	46
01/15/21	45	710	49	02/15/21	50	635	40	03/15/21	40	643	41	04/15/21	45	730	47
01/16/21	50	802	49	02/16/21	50	646	44	03/16/21	45	712	42	04/16/21	40	722	46
01/17/21	50	650	49	02/17/21	70	638	46	03/17/21	50	641	42	04/17/21	50	630	46
01/18/21	30	646	46	02/18/21	40	709	48	03/18/21	45	736	44	04/18/21	50	650	44
01/19/21	40	725	45	02/19/21	40	711	45	03/19/21	35	715	42	04/19/21	55	643	46
01/20/21	50	628	45	02/20/21	50	702	46	03/20/21	40	625	42	04/20/21	50	732	47
01/21/21	45	718	44	02/21/21	40	643	49	03/21/21	40	650	42	04/21/21	40	729	47
01/22/21	60	630	46	02/22/21	45	646	48	03/22/21	30	626	41	04/22/21	45	722	47
01/23/21	50	620	46	02/23/21	40	713	46	03/23/21	40	640	40	04/23/21	40	730	47
01/24/21	30	645	44	02/24/21	50	630	44	03/24/21	30	650	37	04/24/21	50	645	47
01/25/21	50	652	46	02/25/21	35	710	43	03/25/21	20	648	34	04/25/21	55	650	48
01/26/21	40	710	46	02/26/21	45	718	44	03/26/21	50	655	36	04/26/21	50	649	47
01/27/21	30	635	44	02/27/21	40	635	42	03/27/21	40	725	36	04/27/21	60	724	49
01/28/21	50	650	44	02/28/21	30	650	41	03/28/21	40	650	36	04/28/21	30	613	47
01/29/21	40	728	41					03/29/21	30	636	36	04/29/21	55	723	49
01/30/21	40	710	40					03/30/21	35	710	35	04/30/21	45	730	49
01/31/21	70	655	46					03/31/21	30	635	35				
Month Avg	46			Month Avg	45			Month Avg	40			Month Avg	47		

7 Day Avg				7 Day Avg				7 Day Avg				7 Day Avg			
Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg
05/01/21	40	705	48	06/01/21	45	725	56	07/01/21	60	649	64	08/01/21	90	707	92
05/02/21	50	710	47	06/02/21	55	723	56	07/02/21	60	640	66	08/02/21	120	655	99
05/03/21	55	645	48	06/03/21	60	702	58	07/03/21	50	640	66	08/03/21	120	650	102
05/04/21	50	720	46	06/04/21	40	650	56	07/04/21	70	640	64	08/04/21	100	726	102
05/05/21	50	723	49	06/05/21	60	625	56	07/05/21	50	630	61	08/05/21	90	717	100
05/06/21	50	625	49	06/06/21	70	635	57	07/06/21	80	640	63	08/06/21	130	719	106
05/07/21	55	753	50	06/07/21	70	656	57	07/07/21	50	714	60	08/07/21	180	645	119
05/08/21	50	815	51	06/08/21	65	725	60	07/08/21	55	715	59	08/08/21	120	730	123
05/09/21	50	640	51	06/09/21	70	713	62	07/09/21	55	722	59	08/09/21	130	710	124
05/10/21	60	650	52	06/10/21	40	628	59	07/10/21	40	657	57	08/10/21	180	750	133
05/11/21	60	639	54	06/11/21	40	740	59	07/11/21	40	625	53	08/11/21	110	647	134
05/12/21	55	725	54	06/12/21	40	735	56	07/12/21	90	635	59	08/12/21	110	635	137
05/13/21	60	625	56	06/13/21	90	650	59	07/13/21	45	720	54	08/13/21	180	645	144
05/14/21	60	657	56	06/14/21	50	703	56	07/14/21	55	715	54	08/14/21	150	645	140
05/15/21	50	805	56	06/15/21	65	712	56	07/15/21	55	722	54	08/15/21	120	720	140
05/16/21	70	635	59	06/16/21	45	734	53	07/16/21	40	630	52	08/16/21	200	700	150
05/17/21	70	640	61	06/17/21	70	639	57	07/17/21	40	635	52	08/17/21	200	715	153
05/18/21	60	633	61	06/18/21	50	820	59	07/18/21	50	655	54	08/18/21	200	714	166
05/19/21	40	637	59	06/19/21	40	630	59	07/19/21	100	650	55	08/19/21	140	705	170
05/20/21	55	735	58	06/20/21	90	650	59	07/20/21	80	658	60	08/20/21	130	722	163
05/21/21	50	735	56	06/21/21	70	643	61	07/21/21	70	723	62	08/21/21	80	625	153
05/22/21	60	630	58	06/22/21	50	708	59	07/22/21	45	720	61	08/22/21	180	847	161
05/23/21	60	635	56	06/23/21	70	656	63	07/23/21	90	717	68	08/23/21	130	630	151
05/24/21	40	648	52	06/24/21	60	642	61	07/24/21	70	710	72	08/24/21	100	733	137
05/25/21	50	654	51	06/25/21	45	735	61	07/25/21	80	750	76	08/25/21	85	645	121
05/26/21	50	650	52	06/26/21	55	633	63	07/26/21	70	647	72	08/26/21	110	729	116
05/27/21	50	729	51	06/27/21	80	650	61	07/27/21	100	740	75	08/27/21	90	723	111
05/28/21	50	717	51	06/28/21	70	635	61	07/28/21	100	709	79	08/28/21	70	630	109
05/29/21	60	630	51	06/29/21	70	635	64	07/29/21	105	722	88	08/29/21	60	710	92
05/30/21	65	640	52	06/30/21	70	651	64	07/30/21	90	715	88	08/30/21	70	716	84
05/31/21	70	738	56					07/31/21	90	640	91	08/31/21	70	721	79
Month Avg	55			Month Avg	60			Month Avg	67			Month Avg	124		

2024										2025										2026										2027										2028										2029										2030										2031										2032										2033										2034										2035										2036										2037										2038										2039																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7 Day Avg	Date	Read	Time	7

Aeros Environmental, Inc.
CARB Method 100

Goleta Sanitary District
Goleta Waste Water Treatment Plant
Varec 244E Digester Gas Flare

Project 179-2534
April 15, 2021

Run 1
NO_x, CO and O₂
@ 60 °F

Calculated Results

Pollutant	O ₂ %	ppm	ppm @ 3% O ₂	lb/hr	lb/day	lb/MMBtu
Oxides of Nitrogen (NO _x)	19.91	2.18	39.67	0.11	2.66	0.0510
Carbon Monoxide (CO)	19.91	4.2	77.1	0.13	3.15	0.0603
Fuel F-factor = 9080 dscf/MMBtu Fuel Calorific Value = 618 Btu/cf Volumetric Exhaust Gas Flow Rate = 6988 dscfm ¹						

Supporting Data

Stack Gas Measurement Data								
Time Interval			Uncorrected Values			Drift Corrected Values		
Start	-	End	O ₂ %	NO _x ppm	CO ppm	O ₂ %	NO _x ppm	CO ppm
12:44	-	13:27	19.80	2.21	4.2	19.91	2.18	4.2
Calibration Data and Instrument Drift								
						O ₂	NO _x	CO
Full Scale Range (r)						25	10	50
Span						22.05	8.84	45.11
Calibration Gas Value						22.05	4.42	27.07
Initial Zero, ppm or %						0.01	0.03	0.0
Initial Calibration, ppm or %						22.07	4.41	26.9
Initial Zero Bias, ppm or %						0.16	0.02	0.0
Initial Calibration Bias, ppm or %						21.92	4.33	27.0
Pre-test Run Zero Bias, ppm or %						0.16	0.02	0.0
Pre-test Run Calibration Bias, ppm or %						21.92	4.33	27.0
Post-test Run Zero Bias, ppm or %						0.15	0.11	0.0
Post-test Run Calibration Bias, ppm or %						21.90	4.46	27.0
Zero Drift, % r (Equation 100-1)						0.0	-0.9	0.0
Calibration Drift, % r (Equation 100-1)						0.1	-1.3	0.1
Zero System Bias, % r (Equation 100-2)						-0.6	-0.8	0.0
Upscale System Bias, % r (Equation 100-2)						0.7	-0.5	-0.1

¹ Volumetric exhaust gas flow rate is calculated from EPA Methods 1-4

Aeros Environmental, Inc.
CARB Method 100

Goleta Sanitary District
Goleta Waste Water Treatment Plant
Varec 244E Digester Gas Flare

Project 179-2534
April 15, 2021

Run 2
NO_x, CO and O₂
@ 60 °F

Calculated Results

Pollutant	O ₂ %	ppm	ppm @ 3% O ₂	lb/hr	lb/day	lb/MMBtu
Oxides of Nitrogen (NO _x)	20.08	1.89	41.36	0.10	2.28	0.0531
Carbon Monoxide (CO)	20.08	4.0	87.9	0.12	2.95	0.0687
Fuel F-factor = 9072 dscf/MMBtu Fuel Calorific Value = 622 Btu/cf Volumetric Exhaust Gas Flow Rate = 6942 dscfm ¹						

Supporting Data

Stack Gas Measurement Data								
Time Interval			Uncorrected Values			Drift Corrected Values		
Start	-	End	O ₂ %	NO _x ppm	CO ppm	O ₂ %	NO _x ppm	CO ppm
13:53	-	14:38	19.97	1.97	4.0	20.08	1.89	4.0
Calibration Data and Instrument Drift								
						O ₂	NO _x	CO
Full Scale Range (r)						25	10	50
Span						22.05	8.84	45.11
Calibration Gas Value						22.05	4.42	27.07
Initial Zero, ppm or %						0.01	0.03	0.0
Initial Calibration, ppm or %						22.07	4.41	26.9
Initial Zero Bias, ppm or %						0.16	0.02	0.0
Initial Calibration Bias, ppm or %						21.92	4.33	27.0
Pre-test Run Zero Bias, ppm or %						0.15	0.11	0.0
Pre-test Run Calibration Bias, ppm or %						21.90	4.46	27.0
Post-test Run Zero Bias, ppm or %						0.16	0.12	0.0
Post-test Run Calibration Bias, ppm or %						21.92	4.45	27.0
Zero Drift, % r (Equation 100-1)						0.0	-1.0	0.0
Calibration Drift, % r (Equation 100-1)						0.0	-1.2	0.1
Zero System Bias, % r (Equation 100-2)						-0.6	-0.9	0.0
Upscale System Bias, % r (Equation 100-2)						0.6	-0.4	-0.1

¹ Volumetric exhaust gas flow rate is calculated from EPA Methods 1-4

Aeros Environmental, Inc.
CARB Method 100

Goleta Sanitary District
Goleta Waste Water Treatment Plant
Varec 244E Digester Gas Flare

Project 179-2534
April 15, 2021

Run 3
NO_x, CO and O₂
@ 60 °F

Calculated Results

Pollutant	O ₂ %	ppm	ppm @ 3% O ₂	lb/hr	lb/day	lb/MMBtu
Oxides of Nitrogen (NO _x)	19.73	2.68	41.20	0.12	2.94	0.0529
Carbon Monoxide (CO)	19.73	5.1	78.0	0.14	3.39	0.0610
Fuel F-factor = 9078 dscf/MMBtu Fuel Calorific Value = 617 Btu/cf Volumetric Exhaust Gas Flow Rate = 6284 dscfm ¹						

Supporting Data

Stack Gas Measurement Data								
Time Interval			Uncorrected Values			Drift Corrected Values		
Start	-	End	O ₂ %	NO _x ppm	CO ppm	O ₂ %	NO _x ppm	CO ppm
14:59	-	15:42	19.63	2.76	5.0	19.73	2.68	5.1
Calibration Data and Instrument Drift								
						O ₂	NO _x	CO
Full Scale Range (r)						25	10	50
Span						22.05	8.84	45.11
Calibration Gas Value						22.05	4.42	27.07
Initial Zero, ppm or %						0.01	0.03	0.0
Initial Calibration, ppm or %						22.07	4.41	26.9
Initial Zero Bias, ppm or %						0.16	0.02	0.0
Initial Calibration Bias, ppm or %						21.92	4.33	27.0
Pre-test Run Zero Bias, ppm or %						0.16	0.12	0.0
Pre-test Run Calibration Bias, ppm or %						21.92	4.45	27.0
Post-test Run Zero Bias, ppm or %						0.12	0.14	-0.1
Post-test Run Calibration Bias, ppm or %						21.91	4.47	26.9
Zero Drift, % r (Equation 100-1)						0.2	-1.2	0.1
Calibration Drift, % r (Equation 100-1)						0.0	-1.4	0.2
Zero System Bias, % r (Equation 100-2)						-0.4	-1.1	0.1
Upscale System Bias, % r (Equation 100-2)						0.6	-0.6	0.0

¹ Volumetric exhaust gas flow rate is calculated from EPA Methods 1-4

RITE BOILER 6102

LO

INDUSTRIAL BOILER
Tel: 805-640-0809

Oper.: Operator 1

Sign.:

E4500-N
Serial: 9792

Date: 04/14/21
Time: 09:20 AM

Fuel: Natural gas
Altitude: 0 ft
R.H. air: 50 %

O ₂	6.1 %
CO	4 ppm
CO ₂	8.3 %
Eff. tot	83.5 %
Loss tot	16.5 %
T flue	343.8 °F
T air	70.5 °F
ΔT	273.3 °F
Exc. air	41 %
Eff. cond	0.0 %
NO-L	19.2 ppm
NO ₂ -L	0.8 ppm
NO _x -L	20.0 ppm
Ref. O ₂	3.0 %
CO ref	5 ppm
Ref. O ₂	3.0 %
NO-L ref	23.2 ppm
Ref. O ₂	3.0 %
NO ₂ -L ref	1.0 ppm
Ref. O ₂	3.0 %
NO _x -L ref	24.2 ppm
Draft	-0.016 inH ₂ O
P gas	-0.016 inH ₂ O

Notes:

INDUSTRIAL BOILER
Tel: 805-640-0809

HI

INDUSTRIAL BOILER
Tel: 805-640-0809

Oper.: Operator 1

Sign.:

E4500-N
Serial: 9792

Date: 04/14/21
Time: 09:23 AM

Fuel: Natural gas
Altitude: 0 ft
R.H. air: 50 %

O ₂	5.3 %
CO	17 ppm
CO ₂	8.7 %
Eff. tot	81.4 %
Loss tot	18.6 %
T flue	445.6 °F
T air	70.3 °F
ΔT	375.3 °F
Exc. air	34 %
Eff. cond	0.0 %
NO-L	21.7 ppm
NO ₂ -L	0.2 ppm
NO _x -L	21.9 ppm
Ref. O ₂	3.0 %
CO ref	20 ppm
Ref. O ₂	3.0 %
NO-L ref	24.9 ppm
Ref. O ₂	3.0 %
NO ₂ -L ref	0.2 ppm
Ref. O ₂	3.0 %
NO _x -L ref	25.1 ppm
Draft	-0.012 inH ₂ O
P gas	-0.012 inH ₂ O

Notes:

CLEANING, TUNING, TEST
APRIL 14 2021

LO & HI FIRE TESTING. CS

CS



Gold Coast Environmental



1886 Palma Drive, Suite I, Ventura, CA 93003

www.goldcoastenv.com

O: 805.498.3811

Company Name: Goleta Sanitary District

Address: 1 Moffett Place, Goleta, CA 93117

Date: 4/5/21 Service Time: 11:45am Location/Tag#: FIT 6210 / Main Flare

Manufacturer: FCI ST 98

Transmitter Serial Number: 507737

Nominal Sensor Resistance

1000 ohms

EPROM Info:

Version:	Date:	Checksum:
2.32	4/4/06	4AE3

Indicated Temperature at Nominal Resistance

30.20 F

Technician
DT/JK

Delta 'R Ohms	VDC Across 250 Ohms	mA Output	Unit dR	Indicated Display
221.22	0.999	3.99	4096	0.000 SCFM
220.22	1.201	4.80	4084	15.18 SCFM
211.02	1.247	4.98	3913	18.67 SCFM
181.30	1.496	5.98	3360	37.27 SCFM
151.31	1.994	7.96	2802	74.53 SCFM
121.37	2.996	11.97	2245	149.6 SCFM
105.14	3.984	15.91	1943	223.6 SCFM
93.90	4.968	19.86	1734	297.8 SCFM

Version:	2.32	C5:	311.89750	Sensor:	2
Scale:	1.19988	Balance:	161	Tslp:	0.22820000
Serial #:	507737	Outz:	6565	Refr:	2225.39
Customer:	C080322	OutF:	32855	Caltemp:	67
Curve Fit:	2	Heater i:	115	Toff:	-440.83
Brk Pt:	2149	Factor:	13.2247	Tcslp:	0.00026500
Poly Seg 1:		Eu:	67 (C)	Tcslp0:	0.00000
C1:	73.271340	Tot:	1	Tcslp2:	0.00000
C2:	0.8406194	Tottemp:	0	MaxFlow:	27.219
C3:	-11.28398	TotFlow:	23871.2207	MinFlow:	1.1345
C4:	12.143650	RollOver:	1e6	Density:	0.07152420
C5:	0.0485410	Roll Cnt:	0	Line Size 0:	6.3570004
Poly Seg 2:		Outmode:	0	Line Size 1:	0.0000000
C1:	3801.2940	A/D Max:	3994	F. S:	300.0000
C2:	-805.6827	A/D Min:	1515		
C3:	6507.5750	K Factor:	1.0000		
C4:	-23316.29	Zero:	0.0000		



Gold Coast Environmental



1886 Palma Drive, Suite I, Ventura, CA 93003

www.goldcoastenv.com

O: 805.498.3811

Company Name: Goleta Sanitary District

Address: 1 Moffett Place, Goleta, CA 93117

Date: 4/5/21 Service Time: 11:00am Location/Tag#: FIT 5001 / Stand-by Flare

Manufacturer: FCI ST 98 Transmitter Serial Number: 246282

Nominal Sensor Resistance 1000 ohms

EPROM Info:

Indicated Temperature at Nominal Resistance 29.40 F

Version:	Date:	Checksum:
2.32	4/4/06	4AE3

Technician
DT/JK

Delta 'R Ohms	VDC Across 250 Ohms	mA Output	Unit dR	Indicated Display
210.51	1.000	4.00	3880	0.000 SCFM
209.51	1.402	5.62	3862	10.09SCFM
199.36	1.497	6.00	3673	12.50 SCFM
167.08	1.998	8.01	3073	25.01SCFM
134.32	2.997	12.01	2464	49.97 SCFM
116.46	3.995	16.00	2132	74.91 SCFM
104.89	4.982	19.96	1917	99.52 SCFM

Version:	2.32	C5:	-1.445928	Sensor:	2
Scale:	1.20023	Balance:	172	Tslp:	0.23453800
Serial #:	246282	Outz:	6613	Refr:	2232
Customer:	RA29307	OutF:	32935	Caltemp:	68.99
Curve Fit:	2	Heater i:	117	Toff:	-454.49
Brk Pt:	2597	Factor:	5.30431	Tcslp:	0.00027400
Poly Seg 1:		Eu:	67 (C)	Tcslp0:	0.00000
C1:	2076.3770	Tot:	1	Tcslp2:	0.00000
C2:	-260.0252	Tottemp:	0	MaxFlow:	22.627
C3:	1254.7870	TotFlow:	68895.9921	MinFlow:	1.8856
C4:	-2695.643	RollOver:	1e6	Density:	0.07152420
C5:	21.590350	Roll Cnt:	0	Line Size 0:	4.0260000
Poly Seg 2:		Outmode:	0	Line Size 1:	0.0000000
C1:	112.00330	A/D Max:	3791	F. S:	100.0000
C2:	-2.116658	A/D Min:	1672		
C3:	-13.93106	K Factor:	1.0000		
C4:	85.419290	Zero:	0.0000		



Gold Coast Environmental



1886 Palma Drive, Suite I, Ventura, CA 93003

www.goldcoastenv.com

O: 805.498.3811

Company Name: Goleta Sanitary District

Address: 1 Moffett Place, Goleta, CA 93117

Date: 4/5/21 Service Time: 12:50 Location/Tag#: FIT 6102 / Boiler #2

Manufacturer: FCI ST 98

Transmitter Serial Number: 503840

Nominal Sensor Resistance

1000 ohms

EPROM Info:

Version:	Date:	Checksum:
2.32	4/4/06	4AE3

Indicated Temperature at Nominal Resistance

31.10 F

Technician
DT/JK

Delta 'R Ohms	VDC Across 250 Ohms	mA Output	Unit dR	Indicated Display
166.92	0.999	3.99	3111	0.000 SCFM
165.92	1.081	3.99	3092	2.040 SCFM
137.23	1.249	4.93	2558	5.876 SCFM
117.65	1.496	5.84	2193	11.56 SCFM
97.43	1.993	7.77	1816	23.64 SCFM
78.12	2.998	11.28	1456	45.62 SCFM
67.77	3.987	14.70	1263	67.06 SCFM
61.33	4.968	18.02	1143	87.80 SCFM

Version:	2.32	C5:	57.296780	Sensor:	3
Scale:	1.19967	Balance:	153	Tslp:	0.22820000
Serial #:	503840	Outz:	6594	Refr:	2191.86
Customer:	C079463	OutF:	32849	Caltemp:	59
Curve Fit:	2	Heater i:	194	Toff:	-441.18
Brk Pt:	1549	Factor:	1.39817	Tcslp:	0.00026500
Poly Seg 1:		Eu:	67 (C)	Tcslp0:	0.00000
C1:	166.72270	Tot:	1	Tcslp2:	0.00000
C2:	-10.45560	Tottemp:	0	MaxFlow:	85.802
C3:	39.539120	TotFlow:	787339.312 scfm	MinFlow:	1.4306
C4:	-121.4106	RollOver:	1e6	Density:	0.07152420
C5:	1.6262300	Roll Cnt:	29	Line Size 0:	2.0669999
Poly Seg 2:		Outmode:	0	Line Size 1:	0.0000000
C1:	499.47350	A/D Max:	3059	F. S:	100.0000
C2:	-97.77508	A/D Min:	1008		
C3:	886.44820	K Factor:	1.0000		
C4:	-3707.516	Zero:	0.0000		



air pollution control district
SANTA BARBARA COUNTY

Diesel-Fired Emergency/Standby (E/S) Engine Recordkeeping Form ENF -92

Santa Barbara County Air Pollution Control District
260 N San Antonio Rd, Suite A, Santa Barbara, CA 93110-1315

Maintain a separate Compliance ENF -92 for each emergency/standby engine. Additional information regarding the recordkeeping and reporting requirements for emergency/standby diesel engines can be found here: www.ourair.org/dice-atcm.

Company Name	Goleta Sanitary District		
Contact Name	John Crisman	Phone #	(805)967-4519
FID No.	01528	Permit No.	05861-R9

ENGINE DATA			
Engine Location (Address, Nearest Cross Streets, or Lease)		One William Moffett Place, James Fowler Road	
Manufacturer		Generac	
Model Name		13237430600	
Maximum Rated Brake Horsepower (bhp)		804 BHP 600 KW	
Serial Number	2113102	APCD Device Number	113017

Initial Startup[†] (Hours): _____ Reporting Year: 2021

Hour Meter Reading as of January 1st of the Reporting Year: 268.1

MONTH	HOURS OF OPERATION						HOUR METER READING AT THE END OF THE MONTH
	EMERGENCY USE	MAINTENANCE & TESTING	EMISSIONS TESTING	INITIAL STARTUP	OTHER USES	NFPA 25/ 110 USE	
JANUARY	0.1	1.7					269.9
FEBRUARY		1.8					271.7
MARCH		1.7					273.4
APRIL		1.8					275.2
MAY		1.7					276.9
JUNE		1.8					278.7
JULY		1.8					280.5
AUGUST	11.9	1.7					294.1
SEPTEMBER		1.8					295.9
OCTOBER		1.8					297.7
NOVEMBER	0.1	1.7					299.6
DECEMBER		1.8					301.4
TOTAL	12.1	21.2					

PLEASE RETURN THE COMPLETED ANNUAL REPORT TO:
AIR POLLUTION CONTROL DISTRICT, 260 N. SAN ANTONIO RD., SUITE A, SANTA BARBARA CA 93110-1315
or E-mail to annualreport@sbcapcd.org (FAXES NOT ACCEPTED)

Diesel-Fired Emergency/Standby (E/S) Engine Recordkeeping Form ENF-92

Does this annual report contain confidential information?

☐ Yes

☒ No

All information claimed as confidential must be submitted in accordance with APCD Policy & Procedure 6100-020 (Handling of Confidential Information): <http://www.ourair.org/wp-content/uploads/6100-020.pdf>. Failure to follow the required procedures shall be deemed a waiver by the applicant of the right to protect such information from public disclosure.

I certify that the information provided is accurate and complete to the best of my knowledge.


Signature

John W Crisman

/ 2.15.22

Print name / date

ANNUAL REPORT INSTRUCTIONS FOR DIESEL-FIRED E/S ENGINE

1. **MULTIPLE ENGINES:** If your facility has more than one permitted diesel-fired emergency/standby engine, then please provide separate copies of this form for each engine.
2. **CHECK YOUR PERMIT:** Check the *Reporting* condition of your permit, there may be additional information that needs to be submitted with this report. Please provide any additional information that you are required to submit.
3. **SUBMITTAL:** Submit by mail or e-mail. When submitting via e-mail, if you do not receive a response within 72 hours confirming that the District has received your submittal, please assume the annual report was not received and contact us at (805) 961-8800. *Faxes Not Accepted.*

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air pollution control district
SANTA BARBARA COUNTY

Diesel-Fired Emergency/Standby (E/S) Engine Recordkeeping Form ENF -92

Santa Barbara County Air Pollution Control District
260 N San Antonio Rd, Suite A, Santa Barbara, CA 93110-1315

Maintain a separate Compliance ENF -92 for each emergency/standby engine. Additional information regarding the recordkeeping and reporting requirements for emergency/standby diesel engines can be found here: www.ourair.org/dice-atcm.

Company Name	Goleta Sanitary District		
Contact Name	John Crisman	Phone #	(805)967-4519
FID No.	01528	Permit No.	05861-R9

ENGINE DATA			
Engine Location (Address, Nearest Cross Streets, or Lease)		One William Moffett Place, James Fowler Road	
Manufacturer		Generac	
Model Name		13237430600	
Maximum Rated Brake Horsepower (bhp)		804 BHP 600 KW	
Serial Number	2113103	APCD Device Number	113018

Initial Startup[†] (Hours): _____ Reporting Year: 2021

Hour Meter Reading as of January 1st of the Reporting Year: 183

MONTH	HOURS OF OPERATION						HOUR METER READING AT THE END OF THE MONTH
	EMERGENCY USE	MAINTENANCE & TESTING	EMISSIONS TESTING	INITIAL STARTUP	OTHER USES	NFPA 25/ 110 USE	
JANUARY	0.2	1.7					184.9
FEBRUARY		1.7					186.6
MARCH		1.6					188.2
APRIL		1.8					190
MAY		1.7					191.7
JUNE		1.7					193.4
JULY		1.7					195.1
AUGUST	11.9	1.7					208.7
SEPTEMBER		1.7					210.4
OCTOBER		1.8					212.2
NOVEMBER	0.1	1.7					214
DECEMBER		1.8					215.8
TOTAL	12.2	20.6					

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Diesel-Fired Emergency/Standby (E/S) Engine Recordkeeping Form ENF-92

Does this annual report contain confidential information?

☐ Yes

☒ No

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I certify that the information provided is accurate and complete to the best of my knowledge.


Signature

John W Crisman

/ 2.15.22

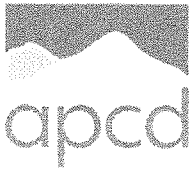
Print name / date

ANNUAL REPORT INSTRUCTIONS FOR DIESEL-FIRED E/S ENGINE

1. **MULTIPLE ENGINES:** If your facility has more than one permitted diesel-fired emergency/standby engine, then please provide separate copies of this form for each engine.
2. **CHECK YOUR PERMIT:** Check the *Reporting* condition of your permit, there may be additional information that needs to be submitted with this report. Please provide any additional information that you are required to submit.
3. **SUBMITTAL:** Submit by mail or e-mail. When submitting via e-mail, if you do not receive a response within 72 hours confirming that the District has received your submittal, please assume the annual report was not received and contact us at (805) 961-8800. *Faxes Not Accepted.*

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air pollution control district
SANTA BARBARA COUNTY

Diesel-Fired Emergency/Standby (E/S) Engine Recordkeeping Form ENF -92

Santa Barbara County Air Pollution Control District
260 N San Antonio Rd, Suite A, Santa Barbara, CA 93110-1315

Maintain a separate Compliance ENF -92 for each emergency/standby engine. Additional information regarding the recordkeeping and reporting requirements for emergency/standby diesel engines can be found here: www.ourair.org/dice-atcm.

Company Name	Goleta Sanitary District		
Contact Name	John Crisman	Phone #	(805)967-4519
FID No.	11309	Permit No.	13477-R3

ENGINE DATA			
Engine Location (Address, Nearest Cross Streets, or Lease)	101 John Donald, Santa Barbara		
Manufacturer	Cummins		
Model Name	QSB5-G3 NR3		
Maximum Rated Brake Horsepower (bhp)	145 BHP 108KW		
Serial Number	73115400	APCD Device Number	113115

Initial Startup[†] (Hours): _____ Reporting Year: 2021

Hour Meter Reading as of January 1st of the Reporting Year: 118.9

MONTH	HOURS OF OPERATION						HOUR METER READING AT THE END OF THE MONTH
	EMERGENCY USE	MAINTENANCE & TESTING	EMISSIONS TESTING	INITIAL STARTUP	OTHER USES	NFPA 25/ 110 USE	
JANUARY	0.1	2.5					121.4
FEBRUARY		1.8					123.3
MARCH		1.8					125.1
APRIL		1.7					126.8
MAY		1.8					128.6
JUNE		1.8					130.4
JULY		1.7					132.1
AUGUST	1.9	1.8					135.8
SEPTEMBER		1.7					137.5
OCTOBER		1.8					139.3
NOVEMBER	0.2	1.7					141.2
DECEMBER		1.8					143
TOTAL	2.2	21.9					

PLEASE RETURN THE COMPLETED ANNUAL REPORT TO:
AIR POLLUTION CONTROL DISTRICT, 260 N. SAN ANTONIO RD., SUITE A, SANTA BARBARA CA 93110-1315
or E-mail to annualreport@sbcapcd.org (FAXES NOT ACCEPTED)

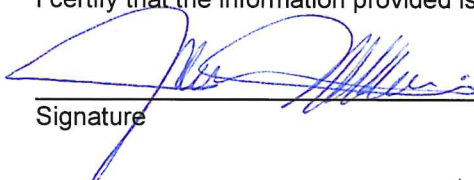
Diesel-Fired Emergency/Standby (E/S) Engine Recordkeeping Form ENF-92

Does this annual report contain confidential information?

☐ Yes ☒ No

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I certify that the information provided is accurate and complete to the best of my knowledge.


Signature

John W Crisman / 2.15.22
Print name / date

ANNUAL REPORT INSTRUCTIONS FOR DIESEL-FIRED E/S ENGINE

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or E-mail to annualreport@sbcapcd.org (FAXES NOT ACCEPTED)



MCCORMIX CORP.
Jobber, Chevron U.S.A. Products Company
P.O. Box 848
Santa Barbara, CA 93102
(805) 963-9366

LETTER OF CONFORMANCE
01/31/2022

This is to certify that CARB ULS dyed diesel sold and delivered to:

Goleta Sanitary District for calendar year 2021

Was in compliance with SCAQMD requirements for Santa Barbara County.

The sulfur content is guaranteed to be less than .0015% (15PPM). The high heat content is typically in the 19,950 to 20,200 BTU per pound range.

Steve Olsen

General Manager
McCormix Corporation
805-963-9366



Letter of Conformance

February 2, 2022

This is to certify that the CARB Ultra Low sulfur dyed Diesel Fuel sold and delivered to Goleta Sanitary District from 1/1/2021-12/31/2021

Was in compliance with California Air Resources Board requirements for Ventura County. The test Results meet ASTM D-5453 and are Typical of all CARB Ultra Low Sulfur Dyed Diesel Fuel sold by SC Fuels. The sulfur Content is guaranteed to be less than .0015%. (15PPM) The high heat content is typically in the 19,950-20,200 BTU per pound range.

Terri Merritt

Account Manager
SC Fuels
Oxnard Division
Office (805)299-1217
merrittt@scfuels.com