VENTURA REGIONAL SANITATION DISTRICT
1001 PARTRIDGE DRIVE, SUITE 150 • VENTURA, CA 93003-0704

A Public Waste Management Agency

February 14, 2018

Mr. Dan Searcy
Manager, Compliance Division
Ventura County Air Pollution Control District
669 County Square Drive
Ventura, CA 93003

SUBJECT: TITLE V COMPLIANCE REPORTS FOR THE TOLAND ROAD LANDFILL

Dear Mr. Searcy:

The Ventura Regional Sanitation District (VRSD) submits the attached Title V compliance reports for the Toland Road Landfill, Title V Permit Number 07340. A copy of this letter has also been submitted to the Air Quality Division of the United States Environmental Protection Agency, Region IX.

This submittal includes the following attachments:

1. Semi-Annual New Source Performance Standards (NSPS) and Title V Report for July 1, 2017 to December 31, 2017;
2. Semi-Annual Startup, Shutdown and Malfunction (SSM) Plan Report for July 1, 2017 to December 31, 2017;
3. Annual Title V Compliance Certification for January 1 to December 31, 2017
4. Supplemental information historically submitted with Title V Reports.

Attachment 1 includes the Semi-Annual NSPS report/Title V reports.

A separate Responsible Official's Certification Form is included in Attachment 2 for the SSM Plan Report. Attachment 2 also includes a summary table of all malfunction events and the individual SSM Plan Forms.

Attachment 3 includes the Annual Title V Compliance Certification. Attachment 3 also includes the Annual Deviation Summary Form, Permit Attachment Form, and Flare Source Test Summary Form.

Attachment 4 includes supplemental information that has been historically provided to the Ventura County Air Pollution Control District (VCAPCD), but is not specifically required as part of the Annual Compliance Certification Report or the Semi-Annual Monitoring Report. This attachment includes the surface monitoring logs, monthly landfill throughputs, opacity compliance forms, and the volume of gasoline used at VRSD.

This submittal is made in accordance with Title 40 Code of Federal Regulations (CFR) Part 70.5, State Operating Permit Programs. The attached reports satisfy the requirements under the Toland Road Landfill's Title V Permit, VCAPCD Rule 74.17.1, the NSPS for municipal solid waste landfills (40 CFR Part 60, Subpart WWW), and the National Emission Standards for Hazardous Air Pollutants for municipal solid waste landfills (40 CFR Part 63, Subpart AAAA).

The SSM Plan Report also satisfies the requirements under the 40 CFR 63.10(d)(5). For this reporting period, the actions taken during all SSM events were consistent with the procedures in the SSM Plan at the facility. There were no instances where the SSM Plan was not adequate for the situation.

If you have any questions or require additional information, please contact me at (805) 658-4675 or Edward Pettit at (805) 207-2218.

Sincerely,

Matt Baumgardner
Director of Operations
Ventura Regional Sanitation District

Attachments

1. Semi-Annual NSPS/Title V Report for July 1, 2017 to December 31, 2017
2. Semi-Annual Startup, Shutdown and Malfunction Plan Report for July 1, 2017 to December 31, 2017
3. Annual Title V Compliance Certification for January 1, 2017 to December 31, 2017
4. Supplemental Information Historically Submitted with Title V Reports

Copy: United States Environmental Protection Agency, Region IX

ATTACHMENT 1

SEMI-ANNUAL NSPS/TITLE V REPORT

Second Semi-Annual 2017 Title V Report and New Source Performance Standards (NSPS) Report Toland Road Landfill Santa Paula, California

From:
Ventura Regional Sanitation District
1001 Partridge Drive, Suite 150
Ventura, California 93003

For Submittal to:

Ventura County Air Pollution Control District
669 County Square Drive
Ventura, California 93003
(805) 645-1421

February 2018

SEMI-ANNUAL TITLE V REPORT OF REQUIRED MONITORING

Ventura County APCD Rule 33.9 requires that "any document, including reports, schedule of compliance progress reports and compliance certifications, required by a Part 70 permit shall be certified by a responsible official." Therefore, this form shall be signed by the company's Responsible Official and submitted with all such reports, including, but not limited to semi-annual reports, deviation and emergency reports and any periodic reports required by a Part 70 permit. However, when submitting your Annual Compliance Certifications, please use the form titled Annual Compliance Certification Signature Cover Form. Semi-annual reports, deviations and emergency reports and any periodic reports required by your Part 70 permit should be submitted to:

Daniel Cho
Air Quality Engineer
Ventura County Air Pollution Control District
669 County Square Drive
Ventura, CA 93003

Certification by Responsible Official

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this compliance certification are true, accurate, and complete.

Signature and Title of Responsible Official: Title: Matt Baumgardner Director of Operations	Date: 2/14/18

Time Period Covered by the Semi-Annual Report of Required Monitoring:

07/01/2017 to 12/31/17

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1.0 INTRODUCTION

This semi-annual Title V and New Source Performance Standards (NSPS) Report for the Toland Road Landfill (TRL or Landfill) is being submitted by the Ventura Regional Sanitation District (VRSD) to the Ventura County Air Pollution Control District (VCAPCD) in compliance with the following:

- VCAPCD Rule 74.17.1
- Sections within 40 Code of Federal Regulations (CFR) Part 60, Subpart WWW ("NSPS"), including 40 CFR 60.757(f), which describe the items to be submitted in a semi-annual report for landfills seeking to comply with NSPS using an active collection system
- In compliance with 40 CFR 63, Subpart AAAA (National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Landfills), the NSPS annual report is submitted semi-annually
- To fulfill the semi-annual reporting requirement under the facility's Title V permit (No. 07340)

The semi-annual report includes the following information, as required by VCAPCD Rule 74.17.1 and 40 CFR 60.757(f), for the reporting period from July 1 through December 31, 2017:

- Value and length of time for exceedance of applicable parameters monitored under 40 CFR 60.756(a), (b), (c), and (d).
- Description and duration of all periods when the gas stream is diverted from the control device.
- Description and duration of all periods when the control device was not operating for more than 1 hour.
- All periods when the collection system was not operating in excess of 5 days.
- The location of each of the 500 parts per million by volume (ppmv) methane exceedances, and the concentration recorded at each location for which an exceedance was recorded in the previous month.
- The date of installation and the location of each well or collection system expansion added to the existing system pursuant to 40 CFR 60.755 paragraphs (a)(3), (b), and (c)(4).

2.0 BACKGROUND INFORMATION

2.1 OWNER AND OPERATOR INFORMATION

TRL is owned and operated by VRSD. The facility is a municipal solid waste (MSW) disposal site located in Santa Paula, California at the following address: Toland Road Landfill, 3500 Toland Road, Santa Paula, California 93060.

TRL is located in eastern Ventura County between the cities of Santa Paula and Fillmore, north of Highway 126. The landfill has been in operation since 1962. In 2000, a landfill gas (LFG) collection system and control system (GCCS) was installed at the Landfill, which included an 85.8 million British Thermal Units per hour (MMBtu/hr) LFG-fired enclosed flare. In 2009, nine (9) 3.2 MMBtu/hr microturbines were installed.

2.2 DESCRIPTION OF LANDFILL GAS COLLECTION AND CONTROL SYSTEM

The GCCS installed at the TRL is shown in the site plan provided in Appendix A, and consists of the following components:

- Vertical extraction wells and horizontal trench collectors.
- A system of lateral piping which connects the vertical wells and trench collectors to a main header system.
- A main collection header, which transports LFG to the control devices.
- A 85.8 MMBtu/hr LFG Specialties flare
- Nine Flex Energy 3.2 MMBtu/hr microturbines.
- Condensate and leachate collection, storage, and injection system

The purpose of the GCCS is to minimize potential environmental impacts associated with LFG, including the following:

- LFG emissions at the landfill surface.
- LFG emissions out of the control devices.
- LFG migration through the vadose zone.

The GCCS removes LFG under a vacuum from the landfill mass. The system collects and controls migrating surface and subsurface gases from the disposal area.

3.0 MONITORING AND RECORDS REQUIRED UNDER NSPS

The following information required to be submitted in the NSPS semi-annual report as referenced in Section 1 is organized in Section 3 as follows:

- Continuously Monitored Parameters
    - Wellhead Monitoring Data
    - Flare Station Monitoring Data
    - Description and Duration of Periods when Gas was Diverted from the Control System
    - Minimum Flare Temperature
    - Control System Downtime
    - Collection System Downtime
- Surface Emissions Monitoring Data
    - Third Quarter Monitoring
    - Fourth Quarter Monitoring
- Cover Integrity Monitoring
- Gas Collection System Installations and Upgrades
- Performance Testing
    - Source Test Results
- Title V Compliance

3.1 CONTINUOUSLY MONITORED PARAMETERS

Applicable parameters continuously monitored under 40 CFR 60.756(a), (b), (c), and (d), include the following which should be monitored:

- Pressure applied to the extraction wells via the gas collection header should be monitored on a monthly basis. A vacuum must be maintained at each wellhead to be in compliance with 40 CFR 60.753 (b).
- Nitrogen or oxygen content of LFG at the wellheads should be monitored on a monthly basis. Nitrogen must be less than 20% or oxygen less than 5% to be in compliance with 40 CFR 60.753 (c).
- Temperature of the LFG at the wellheads should be monitored on a monthly basis. Temperature must be maintained below 55 degrees Celsius (°C) (131 degrees Fahrenheit (°F) to be in compliance with 40 CFR 60.753 (c).

- A temperature monitoring device with a continuous recorder shall be installed at the flare station. The temperature monitoring data are used to demonstrate when the flare is on or off-line and that flare is meeting minimum temperature requirement. The flare monitoring device must be operating continuously to be in compliance with 40 CFR 60.756 (b) or (c).

- A gas flow rate measuring device, which records flow at least once every 15 minutes, must be installed at the flare station. The flow rate monitoring data are used to determine amount of time the LFG collection and control systems are on-line. The flare monitoring device must be operating continuously to be in compliance with 40 CFR 60.756 (b) or (c) and to show that the flare and/or other control device is on-line at any time that the collection system is operating (in compliance with 40 CFR 60.753 (e) and (f)).

3.1.1 Wellhead Monitoring Data

Wellhead monitoring data from the monthly monitoring events during the reporting period included wellhead vacuum, oxygen content of LFG at the wellheads, and the temperature of LFG at the wellheads. These data provide the following information regarding compliance with 40 CFR 60.753:

- During the reporting period, all operation of extraction wells had negative pressure, except for six (6) events. Per CFR 60.755 (a)(3), corrective action and re-monitoring was taken, and all six (6) events were corrected within 15 days. The dates and duration when wells were under positive pressure are detailed in Table 1 below.

Table 1. Summary of Wells with Positive Pressure

Well	Initial Date	Initial Pressure	Re-Monitoring Date s)	Compliant Pressure	Duration
		(in H2O)		(in H2O)	(Days)
40S	9/13/17	2.26	9/13/17	-15	1
67D	9/13/17	0.04	9/13/17	-0.1	1
13S	9/14/17	1.12	9/14/17	-0.12	1
STEELRIS	12/18/17	53.41	12/18/17 12/19/17 12/21/17	-10.71	3
12D	12/18/17	3.41	12/18/17 12/20/17	-12.76	2
80S	12/18/17	0.25	12/18/17	-1.02	1

- During the reporting period, all of the operational extraction wells were operated with LFG temperatures less than 55 °C (131 °F), with the exception of one hundred (100) events. Per 40 CFR 60.755(a), corrective action (through valve adjustments) and re-monitoring was taken, and eighty-six (86) events were corrected within 15 days. Approximately, ten (10) wells triggered repairs, new parts, and adjustments to the wellhead, were re-monitored multiple times which cleared the exceedance, and therefore achieved compliance within the 120-day timeframe for repair or replacement under the NSPS. One (1) event resulted in the well being temporarily decommissioned under startup, shutdown, and malfunction (SSM), and the well is offline as of the

end of the reporting period. The remaining three (3) events are currently in the 120-day period for corrective action. Date(s) and duration when temperatures at the wellhead(s) were greater than or equal to 131 °F are summarized in Table 2 below. Wells that could not be corrected for temperature exceedances from the previous semi-annual reporting period and their status is summarized in Table 3.

Table 2. Summary of Wells Above 131 °F

Well	Initial Date	Initial Temperature (°F)	Re-Monitoring Date (s)	Compliant Temperature (°F)	Duration (Days)
27S	7/3/17	133.5	7/3/17 8/2/17	129.8	30
30D	7/7/17	156.6	7/7/17 8/1/17	128.7	25
12S	7/10/17	140.4	7/10/17 8/2/17 8/16/17	129.1	37
76D	7/10/17	131.4	7/10/17 8/2/17 8/16/17	128.2	37
29D	7/11/17	138	7/11/17 8/1/17	127.7	21
32S	7/11/17	138.3	7/11/17 8/2/17 8/16/17	128.6	36
33D	7/11/17	133.6	7/11/17 8/2/17 8/16/17	124.3	36
33S	7/11/17	135.8	7/11/17 8/2/17	128.3	22
30S	8/1/17	131.5	8/16/17	127.9	15
13S	8/2/17	133.9	8/2/17	129.1	1
26D	8/2/17	142.8	8/2/17	129.6	1
26S	8/2/17	131.9	8/2/17	129.8	1
27D	8/2/17	134.5	8/2/17 8/17/17	128.2	15
28D	8/2/17	132.3	8/2/17 8/16/17	120.9	14
31D	8/2/17	137.7	8/2/17	130.3	1
78S	8/2/17	133.2	8/2/17 8/16/17	129.7	14
46D	8/3/17	131.7	8/3/17 8/8/17	121.7	5
69S	8/5/17	132	8/8/17	130.4	3

Well	Initial Date	Initial Temperature (°F)	Re-Monitoring Date (s)	Compliant Temperature (°F)	Duration (Days)
39S	8/7/17	131.4	8/7/17	130.4	1
75D	8/7/17	137.6	8/7/17 8/17/17 8/24/17 9/6/17	129.5	30
75S	8/7/17	153.8	8/7/17 8/17/17 8/24/17 9/6/17	130	30
69S	8/23/17	133	8/23/17	133.4	Temporarily decommissioned on 8/23/17; offline as of end of reporting period
32S	9/1/17	131.3	9/8/17	127.8	7
81S	9/1/17	137.2	9/8/17	124.8	7
26D	9/5/17	143.5	9/5/17 9/7/17	129.1	2
28D	9/5/17	134.1	9/5/17 9/7/17	129.8	2
76D	9/5/17	131.3	9/5/17 9/7/17	129.2	2
76S	9/5/17	131.8	9/5/17 9/7/17	129.7	2
79S	9/5/17	135	9/5/17	129.8	1
37L	9/6/17	131.9	9/6/17	129.7	1
39S	9/6/17	135	9/6/17	126.8	1
49SOP	9/6/17	131.1	9/6/17	130.6	1
12S	9/13/17	141.7	9/13/17	129.5	1
12S	9/13/17	147	9/13/17	129.7	1
13S	10/5/17	147	10/5/17	127.8	1
30S	10/5/17	139.4	10/5/17	130.4	1
31D	10/5/17	150.2	10/5/17	130	1
32S	10/5/17	133	10/5/17	130.5	1
33D	10/5/17	136.6	10/5/17	129.9	1
33S	10/5/17	138	10/5/17	129.5	1
79D	10/5/17	138.3	10/5/17	129.7	1
81S	10/5/17	133.3	10/5/17	130.8	1
12D	10/11/17	138.8	10/11/17	89.2	1
12S	10/11/17	139.5	10/11/17	129.6	1
26D	10/11/17	141.9	10/11/17	129.3	1

Well	Initial Date	Initial Temperature (°F)	Re-Monitoring Date (s)	Compliant Temperature (°F)	Duration (Days)
76D	10/11/17	131.2	10/11/17	130.5	1
76S	10/11/17	132.3	10/11/17	130.5	1
46D	10/12/17	132.4	10/12/17	129.3	1
75D	10/12/17	139.8	10/12/17	130.5	1
49SOP	10/13/17	131.4	10/13/17	130.7	1
308L	10/16/17	137.4	10/16/17	130.6	1
12S	11/6/17	137.2	11/6/17	130.4	1
13S	11/6/17	140.6	11/6/17	129.7	1
29D	11/6/17	146.1	11/6/17	129	1
30D	11/6/17	141.9	11/6/17	130.3	1
30S	11/6/17	139.4	11/6/17	130.5	1
31D	11/6/17	147.7	11/6/17	127.4	1
31S	11/6/17	133.2	11/6/17	130.3	1
32S	11/6/17	131.3	11/6/17	126.8	1
75S	11/6/17	136.6	11/6/17	129.6	1
81D	11/6/17	137.8	11/6/17	129.8	1
46D	11/8/17	133.4	11/8/17	130.5	1
26D	11/14/17	136.3	11/14/17	130.1	1
27S	11/14/17	132.7	11/14/17	130.5	1
76D	11/14/17	131.4	11/14/17	130.5	1
308L	12/18/17	139.8	12/18/17	121.4	1
12S	12/18/17	140.3	12/18/17 12/20/17	128.6	2
13S	12/18/17	145.5	12/19/17	122.7	1
26D	12/18/17	143.9	12/18/17	123.9	1
26S	12/18/17	134.7	12/18/17	129.1	1
27D	12/18/17	136.3	12/18/17	126.6	1
27S	12/18/17	136.8	12/18/17	125.6	1
29D	12/18/17	134.1	12/18/17 12/19/17	129.8	1
29S	12/18/17	142.4	12/18/17 12/19/17	129.5	1
30D	12/18/17	160.7	12/18/17 12/19/17	129.7	1
30S	12/18/17	141.8	12/18/17 12/19/17	129.5	1
31D	12/18/17	152.7	12/18/17 12/19/17	125.8	1
31S	12/18/17	131.4	12/18/17 12/19/17	129.8	1

Well	Initial Date	Initial Temperature (°F)	Re-Monitoring Date (s)	Compliant Temperature (°F)	Duration (Days)
33D	12/18/17	137.2	12/18/17 12/19/17	129.5	1
33S	12/18/17	139.1	12/18/17 12/19/17	128.8	1
76S	12/18/17	138.6	12/18/17	125.5	1
78S	12/18/17	136.6	12/18/17 12/19/17	129.9	1
79D	12/18/17	144.7	12/18/17	122.4	1
81D	12/18/17	145.2	12/18/17 12/19/17	129.2	1
27D	12/19/17	134.9	12/19/17	129.9	1
28D	12/19/17	131.6	12/19/17	128.5	1
32S	12/19/17	133.9	12/19/17	129.8	1
308L	12/20/17	139.9	12/20/17	128.5	1
75S	12/22/17	142.8	12/22/17 1/3/18	141.5	Pending
12D	12/27/17	138.4	12/27/17 1/3/18	125.5	7
13S	12/27/17	147.8	12/27/17	127.3	1
26D	12/27/17	131.8	12/27/17	130.9	1
28D	12/27/17	131.3	1/3/18	132.2	Pending
31D	12/27/17	150.2	12/27/17	129.5	1
32D	12/27/17	133.4	12/27/17	129.8	1
32S	12/27/17	134.2	12/27/17 1/3/18	134.5	Pending
76D	12/27/17	131.1	12/27/17	129.8	1
78S	12/27/17	135	12/27/17	129.8	1
81S	12/27/17	135.9	12/27/17	129.8	1
75D	12/29/17	137.2	12/29/17	129.1	1

Table 3. Summary of Wells Not Corrected for Temperature in Previous Reporting Periods

Well	Exceedance Duration for High Temperature
308L	Well could not be corrected for high temperature on 3/13/17. Expansion of GCCS (83S on 4/28/2017, 83D on 4/28/2017, 84 on 4/28/2017, and 68 on 7/10/2017). Corrected on 8/22/17 (126.8 °F).
28S	Well could not be corrected for high temperature on 4/4/17. Corrected on 8/16/17 (128.7 °F).
29S	Well could not be corrected for high temperature on 6/7/17. Corrected on 8/1/17 (129.1 °F) within 120 days.
76S	Well could not be corrected for high temperature on 6/8/17. Corrected on 8/16/17 (127.9 °F) within 120 days.

- During the reporting period, all operational extraction wells had oxygen contents of less than 5%, except one hundred and seven (107) events. Per CFR 60.755 (a)(5), corrective action and re-monitoring was taken and fifty-four (54) of the one hundred and seven (107) were corrected within 15 days. Approximately, twenty-five (25) wells triggered repairs, new parts, and adjustments to the wellhead, were re-monitored multiple times which cleared the exceedance, and therefore achieved compliance within the 120-day timeframe for repair or replacement under the NSPS. Fifteen (15) wells triggered the 120-day timeframe for repair or replacement and were subsequently abandoned within the timeframe allowed. Three (3) wells were temporarily decommissioned under SSM and are offline as of the end of the reporting period. The remaining ten (10) events are currently in the 120-day period for corrective action. Please note that re-monitoring within 15 days did not occur for eleven (11) events during the reporting period. Well dates and duration when oxygen at the wellheads were above 5% are summarized below in Table 4. Wells that could not be corrected for oxygen exceedances from the previous semi-annual reporting period and their status is summarized in Table 5.

Table 4. Summary of Wells Above 5% Oxygen

Well	Initial Date	Initial Oxygen	Re-Monitoring Date (s)	Compliant Oxygen	Duration
		(% O2)		(% O2)	(Days)
13D	7/1/17	9.2	7/11/17	0.3	10
29D	7/1/17	6.6	7/11/17	0.3	10
32S	7/1/17	19.8	7/11/17	0.0	10
33D	7/1/17	19.8	7/11/17	0.1	10
33S	7/1/17	17.6	7/11/17	0.0	10
25D	7/3/17	13.3	7/11/17 8/2/17 8/8/17 8/17/17	3.8	44
10S	7/5/17	19	7/11/17 8/3/17	0.0	28

Well	Initial Date	Initial Oxygen (% O2)	Re-Monitoring Date (s)	Compliant Oxygen (% O2)	Duration (Days)
21S	7/5/17	12.7	7/11/17 8/2/17 8/8/17 8/23/17 9/5/17 9/8/17	3.1	65
22D	7/5/17	15.4	7/12/17	14.9	Abandoned on 7/12/17
61S	7/5/17	16.1	7/11/17 8/3/17 8/8/17	15	Abandoned on 8/8/17
60S	7/5/17	12.8	7/11/17 8/2/17	4.6	28
67D	7/5/17	18.8	7/11/17 8/3/17 8/8/17	0.1	33
303U	7/6/17	10.8	7/11/17 8/3/17	0.0	27
308U	7/6/17	17.6	7/11/17 8/3/17	4.7	27
1S	7/6/17	7.5	7/12/17	9.9	Offline for filling operations on 7/12/17; Offline as of end of reporting period
2D	7/6/17	18.6	7/12/17	19.4	Offline for filling operations on 7/12/17; Offline as of end of reporting period
2S	7/6/17	18.4	7/12/17	19.4	Offline for filling operations on 7/12/17; Offline as of end of reporting period
16S	7/6/17	16.1	7/12/17 8/5/17 8/8/17 8/23/17	0.0	47
57D	7/6/17	15.9	8/3/17	0.0	27
19S	7/7/17	17	7/12/17 8/5/17	0.7	28

Well	Initial Date	Initial Oxygen (% O2)	Re-Monitoring Date (s)	Compliant Oxygen (% O2)	Duration (Days)
62S	8/2/17	12.3	8/8/17 8/23/17	2.7	21
11D	8/3/17	20	8/8/17	3.8	5
51DOP	8/3/17	7.9	8/8/17 8/17/17 8/23/17 9/6/17	0	34
64D	8/8/17	8	8/17/17 8/23/17 9/5/17 9/8/17 9/26/17 10/11/17	19	Temporarily decommissioned on 10/16/17; abandoned on 12/20/17
64S	8/8/17	11.9	8/17/17 8/23/17 9/5/17 9/8/17 9/26/17 10/11/17	6.6	Temporarily decommissioned on 10/16/17; abandoned on 12/20/17
24D	8/16/17	20.5	8/17/17 8/23/17	0.6	7
24S	8/16/17	20.1	8/17/17 8/23/17 9/8/17 9/26/17 10/12/17 11/6/17 11/14/17	20.3	Abandoned on 12/20/17
40D	8/16/17	19.2	8/17/17 8/23/17 9/6/17	2.7	20
40S	8/16/17	6.4	8/17/17	0.2	1
78D	9/1/17	6.5	9/7/17	0.4	6
25D	9/5/17	16.1	9/8/17	2.5	3
25S	9/5/17	18.1	9/8/17	1.6	3
41D	9/5/17	6.3	9/8/17	3.8	3
41S	9/5/17	16.2	9/8/17	4.8	3
59S	9/5/17	19	9/8/17	3.5	3
60S	9/5/17	10.8	9/8/17 9/26/17 10/11/17 11/8/17	0.3	64
62D	9/5/17	10.9	9/8/17	1.6	3

Well	Initial Date	Initial Oxygen (% O2)	Re-Monitoring Date (s)	Compliant Oxygen (% O2)	Duration (Days)
63S	9/5/17	19.2	9/7/17	0.3	2
303U	9/6/17	15.3	9/8/17	2.3	2
304U	9/6/17	20.5	9/8/17 9/26/17 10/12/17 10/20/17 11/8/17 11/17/20 11/20/17	14.6	Abandoned on 12/20/17
307U	9/6/17	13.7	9/8/17	3.9	2
11S	9/6/17	20.4	9/8/17	0.0	2
16D	9/6/17	9.6	9/8/17	4.5	2
16S	9/6/17	13.5	9/8/17	0.9	2
19S	9/6/17	14.8	9/8/17	0.0	2
38S	9/6/17	20.1	9/8/17	3.1	2
24D	9/8/17	16.4	9/8/17 9/26/17 10/12/17 11/6/17 11/14/17	18.8	Abandoned on 12/20/17
11D	9/13/17	19	10/12/17 10/20/17 11/8/17 11/14/17 11/15/17 11/17/17 11/20/17	13.1	Abandoned on 12/20/17
67D	9/13/17	17.1	10/12/17 11/8/17	1.5	55
25S	9/13/17	17	10/11/17	19.7	Temporarily decommissioned on 10/11/17; abandoned on 12/20/17
46S	9/13/17	6.1	10/12/17	0.0	28
78D	10/5/17	12.5	11/6/17	0.1	31
25D	10/11/17	11.7	N/A	N/A	Temporarily decommissioned on 10/11/17; abandoned on 12/20/17

Well	Initial Date	Initial Oxygen (% O2)	Re-Monitoring Date (s)	Compliant Oxygen (% O2)	Duration (Days)
12D	11/6/17	21.7	11/14/17	0.3	8
302L	11/8/17	21.9	12/18/17	0.2	40
303U	11/8/17	6.7	11/14/17 11/15/17	2.4	7
307U	11/8/17	7.6	11/14/17	0.3	6
308U	11/8/17	21	11/14/17	3.2	6
38S	11/8/17	15.6	11/20/17	0.3	12
57D	11/8/17	20.3	11/14/17	4	6
51DOP	11/8/17	14.4	11/14/17	1.1	6
36S	11/22/17	12.1	12/18/17	4.8	26
43D	11/22/17	8.8	12/18/17 12/19/17 12/21/17 12/22/17 12/27/17	12.4	Pending
306L	12/18/17	21.1	12/19/17	0.5	1
311L	12/18/17	15.9	12/21/17	2.6	3
6S	12/18/17	21	12/19/17	0.1	1
7S	12/18/17	13.6	12/19/17	0.4	1
19S	12/18/17	18.7	12/19/17	2.6	1
39S	12/18/17	21.1	12/19/17	0.2	1
60S	12/18/17	18.9	12/19/17	4.6	1
36S	12/21/17	13.5	12/22/17 12/27/17	1.3	6
37S	12/21/17	13.7	12/22/17 12/27/17 1/4/17	10.7	Pending
44S	12/21/17	18.1	12/22/17	4.7	1
50SOP	12/21/17	7.2	12/22/17 12/27/17	3.7	6
51DOP	12/21/17	5.4	12/22/17 12/27/17 1/4/18	0.1	14
303U	12/22/17	19.6	1/4/18	0.7	13
307U	12/22/17	10.2	1/4/18	0.5	13
308U	12/22/17	19.2	1/4/18	17.3	Pending
311U	12/22/17	17.4	1/4/18	0.0	13
313U	12/22/17	21.3	1/4/18	20.1	Pending
314U	12/22/17	11.8	1/4/18	16	Pending
40S	12/22/17	19.1	12/22/17	4.6	1

Well	Initial Date	Initial Oxygen (% O2)	Re-Monitoring Date (s)	Compliant Oxygen (% O2)	Duration (Days)
3230EDGE	12/26/17	6.5	12/26/17	1.2	1
10D	12/27/17	12.8	12/27/17 1/4/18	3.5	8
10S	12/27/17	20.6	12/27/17 1/4/18	20.2	Pending
13D	12/27/17	8.9	1/2/18	0.0	6
21S	12/27/17	15	12/27/17 1/3/17	4.4	7
29S	12/27/17	18.7	1/2/18	0.3	6
38S	12/27/17	5.2	12/27/17 1/15/18	5.4	Pending
57D	12/27/17	8.1	12/27/17 1/4/18	14.5	Pending
59S	12/27/17	19.8	12/27/18 1/3/18	20.3	Pending

Table 5. Summary of Wells Not Corrected for Oxygen in Previous Reporting Periods

Well	Exceedance Duration for High Oxygen
310U	Well could not be corrected for high oxygen on 3/14/17. Abandoned on 6/14/17 (previously reported as decommissioned).
22S	Well could not be corrected for high oxygen on 3/14/17. Temporarily decommissioned on 7/12/17 due to concern for potential SSO. Online and compliant (1.5%) on 8/3/17.
42S	Well could not be corrected for high oxygen on 3/14/17. Abandoned on 7/11/17 (previously reported as decommissioned).
53D	Well could not be corrected for high oxygen on 3/14/17. Temporarily decommissioned on 4/14/17 due to filling operations. Offline as of end of reporting period.
54S	Well could not be corrected for high oxygen on 3/14/17. Temporarily decommissioned on 4/14/17 due to filling operations. Offline as of end of reporting period.
58S	Well could not be corrected for high oxygen on 3/14/17. Abandoned on 7/10/17 (previously reported as decommissioned).
60D	Well could not be corrected for high oxygen on 3/14/17. Abandoned on 7/11/17 (previously reported as decommissioned).

Well	Exceedance Duration for High Oxygen
3210EDGE	Well could not be corrected for high oxygen on 4/3/17. Temporarily decommissioned on 7/10/17 due to concern for potential SSO. Offline as of end of reporting period.
400U	Well could not be corrected for high oxygen on 4/4/17. Abandoned on 7/5/17 (previously reported as decommissioned).
61M	Well could not be corrected for high oxygen on 4/4/17. Abandoned on 7/11/17 (previously reported as decommissioned).
41S	Well could not be corrected for high oxygen on 4/29/17. Corrected on 8/8/17 (3.4%) within 120-day timeframe.
3S	Well could not be corrected for high oxygen on 5/2/17. Temporarily decommissioned from 6/12/17 to 7/7/17 due to construction. Abandoned on 8/3/17.
3D	Well could not be corrected for high oxygen on 5/2/17. Temporarily decommissioned from 6/12/17 to 7/7/17 due to construction. Abandoned on 8/3/17.
37S	Well could not be corrected for high oxygen on 5/2/17. Temporarily decommissioned on 5/9/17 due to construction. Online and compliant (3.2%) on 11/22/17.
44S	Well could not be corrected for high oxygen on 5/8/17. Temporarily decommissioned on 5/9//17 due to filling operations. Online on 11/21/17 and compliant on 11/22/17 (0.3%).
18S	Well could not be corrected for high oxygen on 5/9/17. Corrected on 8/8/17 (2.8%) within 120-day timeframe.
20S	Well could not be corrected for high oxygen on 5/16/17. Corrected on 8/3/17 (4.8%) within 120-day timeframe.
25S	Well could not be corrected for high oxygen on 5/17/17. Corrected on 8/8/17 (4.7%) within 120-day timeframe.
41D	Well could not be corrected for high oxygen on 5/17/17. Corrected on 8/8/17 (4.9%) within 120-day timeframe.
63S	Well could not be corrected for high oxygen on 6/8/17. Corrected on 8/8/17 (2.9) within 120-day timeframe.
83S	Well could not be corrected for high oxygen on 6/12/17. Corrected on 8/3/17 (3.2%) within 120-day timeframe.
84	Well could not be corrected for high oxygen on 6/12/17. Temporarily decommissioned on 6/12/17 due filling operations. Offline as of end or reporting period.
17D	Well could not be corrected for high oxygen on 6/12/17. Corrected on 8/8/17 (3.2%) within 120-day timeframe.
302L	Well could not be corrected for high oxygen on 6/14/17. Corrected on 9/6/17 (0.2%) within 120-day timeframe.

Wellhead readings for wells that were off-line due to maintenance, active filling or on-site construction activities; taken offline for well SSM events; and/or shut-off to control increased well temperature to prevent a subsurface fire as exempt under 40 CFR 60.753(b), were excluded from the above review.

3.1.2 Flare Station Monitoring Data

A temperature monitoring device with a continuous recorder and a LFG flow rate monitoring device which records flows at least every 15 minutes is installed at the flare station. The monitoring records are summarized and kept on file at the landfill. During the reporting period, the gas collection system was operated in compliance with the requirement to operate the system such that all collected gases are vented to a control system (40 CFR 60.753 (e)), and the requirement to operate the control or treatment system at all times when the collected gas is routed to the system (40 CFR 60.753 (f)). The flare station is equipped with an automatic shutdown and alarm system, which shuts down the blowers and closes a valve on the main header pipe whenever the flare shuts down. This ensures that no collected LFG is vented to the atmosphere untreated. Note that the LFG is directed to the microturbines and any remaining LFG is directed to the flare.

Missing or invalid monitoring data can potentially be a deviation for the minimum temperature requirement for the flares if one or more hours of data in a 3-hour block is missing or invalid as defined by more than 15 minutes of missing and/or invalid data in an hour. There were no occurrences during the reporting period where there was a loss of data except during SSM events.

3.1.3 Microturbines Monitoring Data

Collected LFG is directed to the microturbines at the power plant on site via a compressor. The power plant is equipped with an automatic shutdown that powers down the compressor whenever the microturbines shut down and/or the flare shuts down to ensure that no collected LFG is vented to the atmosphere. Note that the microturbines cannot operate independently of the flare station due to the blower system configuration. There were no times during the reporting period when no data were recorded by the supervisory control and data acquisition (SCADA) system that could result in a deviation. The microturbines are covered by an NSPS treatment exemption approved by U.S. Environmental Protection Agency (EPA), Region 9.

3.1.4 Description and Duration of Periods when Gas was Diverted from Control System

As noted above, flare station blowers automatically shut down whenever the flare shuts down, and the compressor shuts down whenever the microturbines shut down. Thus, collected LFG was at no time diverted from combustion at either control device during the reporting period.

3.1.5 Minimum Flare Temperature

The 2016 annual source test for methane destruction for the flare was performed on October 17, 2016, and the source test report was submitted on November 14, 2016 with a temperature at 1,779 °F. During the reporting period from July 1 through December 4, 2017, the minimum temperature at which the flare should operate was 1,729 °F (1,779 °F – 50 °F) since the temperature is higher than the testing conducted in 2015.

The 2017 annual source test for quadrennial emission compliance and methane destruction for the flare was performed on October 26, 2017, and the source test report was submitted on December 5, 2017 with a temperature at 1,680 °F. During the reporting period from December 5 through December 31, 2017, the minimum temperature at which the flare should operate was 1,630 °F (1,680 °F – 50 °F).

The average temperature for the flare for a three (3)-hour time period cannot fall below the established minimum temperature except during periods of SSM. Note that the permitted minimum temperature for the flare is 1,500 °F, which is below the minimum under the NSPS.

During the reporting period, the average temperature for the flare did not drop below the established minimum NSPS temperatures, excluding SSM events.

3.1.6 Control System Downtime

Due to the multiple control system setups at the site, it would be a unique instance when the flare and microturbines went off-line at the same time for an extended period, which could result in a condition whereby adequate LFG control capacity was not available.

Blower/flare station shutdowns (for more than one hour) occurred at various times during the reporting period of July 1 through December 31, 2017 due to some, but not limited to, the following reasons:

- High oxygen
- SCE power outage
- Low flow
- Scheduled or unscheduled flare or collection system maintenance/repair

The flare is the main control device and a portion of LFG is diverted to the microturbine facility on occasion. The microturbine facility cannot operate independent of the flare station. Collected LFG was at no time diverted from both the microturbine facility and the flare because the blowers and compressors automatically shut down whenever the control device shuts down. Therefore, at no time was the collected LFG emitted without destruction during the reporting period. Also, in no instances did free venting of LFG occur during the reporting period. Individual flare shutdowns exceeding 1 hour in duration are included in Table 6 below.

Table 6. Summary of Flare Downtime Greater than 1 Hour

Control System Periods of Downtime Exceeding 1 Hour		
Date	**Duration (Hrs:Min)**	**Reason for Shutdown**
7/14/17	2:19	Flare shutdown due to high oxygen caused by pipe separation
10/9/17	23:50	Flare shutdown due to SCE power outage
11/16/17	2:32	Flare manually shutdown for scheduled flare inspection
11/21/17	1:12	Flare shutdown due to blower #1 high vibration
11/24/17	3:26	Flare shutdown due to SCE electrical gear failure
12/5/17	4:12	Flare manually shutdown for scheduled flare maintenance
12/5/17	16:22	Flare manually shutdown due to approaching Thomas Fire
12/6/17	245:52	Flare manually shutdown due to evacuation orders and approaching Thomas Fire
12/24/17	8:50	Flare shutdown due to an SCE utility trip

3.1.7 Collection System Downtime

During the reporting period, the entire collection system was shut down for more than 5 consecutive days on one event. From December 6 through December 16, 2017, the GCCS was manually shutdown and the VRSD staff was ordered to evacuate by fire officials due to the approaching Thomas Fire. Per directive from the VCAPCD, the VCAPCD was under enforcement discretion and did not require TRL to submit a variance under the circumstances.

3.2 SURFACE EMISSION MONITORING DATA

Landfill surface emissions monitoring ("instantaneous surface sweeps") were performed on a quarterly basis to measure concentrations of total organic carbon (TOC) as methane using a portable flame ionization detector organic vapor analyzer, which meets NSPS specifications. Quarterly reports summarizing the monitoring dates, survey pathways, calibration records and results will be kept on file and made available upon request. The results of the monitoring are summarized below.

3.2.1 Third Quarter Monitoring

The third quarter 2017 instantaneous surface emissions monitoring event was performed on September 5, 2017 by RES Environmental, Inc. (RES). The event resulted in forty-two (42) areas of the landfill having TOC concentrations above 500 ppmv, measured as methane. Remediation activities were performed, including adding soil, and a 10-day re-monitoring event performed September 14, 2017, resulted in zero (0) areas with TOC concentrations above 500 ppmv, measured as methane. Additional mitigation measures were performed, which included application of additional soil. The second 10-day re-monitoring event, performed on April 13, 2017, resulted in zero (0) areas with TOC concentrations above 500 ppmv, measured as methane. The one (1)-month re-monitoring event performed October 5, 2017, resulted in zero (0) areas with TOC concentrations above 500 ppmv, measured as methane. There were no areas which triggered the NSPS 120-day timeline to implement a system expansion.

3.2.2 Fourth Quarter Monitoring

The fourth quarter 2017 instantaneous surface emissions monitoring event was performed on December 28, 2017 by RES. The event resulted in seventeen (17) areas of the landfill having TOC concentrations above 500 ppmv, measured as methane. Remediation activities were performed, including adding soil, and a 10-day re-monitoring event performed January 4, 2017, resulted in zero (0) areas with TOC concentrations above 500 ppmv, measured as methane. The one (1)-month re-monitoring event performed January 25, 2018, resulted in zero (0) areas with TOC concentrations above 500 ppmv, measured as methane. There were no areas which triggered the NSPS 120-day timeline to implement a system expansion.

3.3 COVER INTEGRITY MONITORING

Per 40 CFR 60.755(c)(5), the site must implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis. TRL monitored for cover integrity on a monthly basis during the reporting period. Cover integrity monitoring for the remainder of the reporting period was performed and results are located in Appendix B.

3.4 GAS COLLECTION SYSTEM INSTALLATIONS AND UPGRADES

Six (6) wells were installed and operational at the TRL during the reporting period (see Table 7 below). Detailed location information is included on the landfill site map included in Appendix A. Details regarding installation of these wells is located at the VRSD offices at the Toland Landfill Facility. Please also note that the GCCS was impacted by the Thomas Fire in December 2017, which resulted in damage to the header system. As such, replacement of header was conducted as noted in Table 7 below.

Table 7. GCCS Installations and Upgrades

DATE	DESCRIPTION
8/7/17	Wells VGW-75S and 75D online and operational
8/23/17	Well VGW-73S online and operational
11/9/17	Wells 1701A, 1702A, and 1703A online and operational
December 2017	Approximately 2,000 linear feet (LF) of 24-inch header replaced along western header; Approximately 1,400 LF of 12-inch header replaced along eastern header

4.0 PERFORMANCE TEST

The facility is required to perform a source test on the flare once every two years as required by Rule 74.17.1 and an air toxics test once every four years as required by Condition No. 10 of the PTO. The compliance test for Non-Methane Organic Compounds (NMOC), Nitrogen Oxides (NOx), Sulfur Oxides (SOx), and Carbon Monoxide (CO) for the flare was performed on October 26, 2017.

Performance test summary information on the NMOCs, NOx, SOx, and CO emissions for the flare is provided in Table 8 below.

Table 8. Summary of Source Test Results

Test Date	Parameter	Flare Result	Emission Limit
Flare 10/26/17	NOx Emission Rate (lb/MMBtu)	0.0497	0.06 lb/MMBtu
	CO Emission Rate (lb/MMBtu)	0.00869	0.20 lb/MMBtu
	SOx Emission Rate (lb/MMBtu)	0.0030	0.02 lb/MMBtu
	NMOC Emission Rate (ppmv, as hexane @ 3% O_2)	1.11	20 ppmv
	NMOC Destruction Efficiency (%)	97.46	98%

Note: Compliance with NMOCs is met with 98% destruction efficiency or less than 20 ppmv outlet as hexane@3% oxygen, so compliance was achieved. 1.11 ppm as C_6 @ 3% O_2

Please note that methane destruction efficiency testing under Condition No. 3 from the Title 17 California Code of Regulations (CCR) section in the PTO was also conducted on October 26, 2017. The methane destruction efficiency was 99.91%, which is in compliance with 17 CCR requirements.

5.0 TITLE V COMPLIANCE

During the reporting period, the Landfill performed all required monitoring and maintained the appropriate records except for the following events:

- TRL failed to perform 15-day re-monitoring per 40 CFR 60.753 for of the reporting period for twelve (12) wellheads displaying exceedances of the oxygen limits as follows:

  -57D on 7/6/17
  -67D and 46S on 9/13/17
  -78D on 10/5/17
  -18S, 19S, 22S, 40D, 40S, and 48D on 10/12/17
  -36S and 43D on 11/22/17

  Note that nine (9) wells were subsequently corrected within the 120-day timeframe. Two (2) wells were abandoned within the 120-day timeframe, and one (1) well is pending corrective action within 120 days.

- TRL failed to correct two (2) wells that triggered the 120-day period for corrective action within 120 days. Well 308L could not be corrected for high temperature on 3/13/17. The well was subsequently corrected on 8/22/17, or 162 days after the first exceedance. Well 28S could not be corrected for high temperature on 4/4/17. It was subsequently corrected on 8/16/17, or 134 days after the first exceedance.

APPENDIX A

LANDFILL SITE PLAN

LEGEND

- EXISTING 24" ABOVE GRADE HDPE PIPE
- EXISTING 18" ABOVE GRADE HDPE PIPE
- EXISTING 12" ABOVE GRADE HDPE PIPE
- EXISTING 12" ABOVE GRADE HDPE PIPE
- EXISTING 12" ABOVE GRADE HDPE PIPE
- EXISTING 8" ABOVE GRADE HDPE PIPE
- EXISTING 6" ABOVE GRADE HDPE PIPE
- EXISTING BELOW GRADE HDPE PIPE (TYP.)
- EXISTING LFG EXTRACTION WELL LOCATION
- MONITORING PROBES
- PROPOSED LFG EXTRACTION WELL WITH PUMPS

N

S

0 100 100
GRAPHIC SCALE IN FEET

TOPOGRAPHY NOTE
BASED ON SURVEY INFORMATION RECEIVED FROM VENTURA REGIONAL SANITATION DISTRICT DATE: 07-28-17

FOR INTERNAL USE ONLY

REV	DATE	DESCRIPTION	DRN BY	CHK BY	APRV BY

OWNER

TOLAND ROAD LANDFILL
3500 TOLAND RD,
SANTA PAULA, CA
PH: 805-658-4675

BIOGAS ENGINEERING
SIGNAL HILL, CA 90755
PH: (562) 726-3565
EMAIL: INFO@BIOGASENG.COM

LFG GCCS MAP - JANUARY 2018

TOLAND ROAD LANDFILL
EXITING GCCS-2017

DRAWING NO: EX-1

PROJECT NO:

APPENDIX B

COVER INTEGRITY MONITORING

INSPECTOR: Ricky Ontiveros DATE: 7-Jul-17

Toland Landfill Cover Integrity			
	YES	NO	Location
Cracking surface	X		along west drainage v-ditch
Erosion rills		X	
ponding water		X	
exposed trash		X	

Corrective action		
Date	Location	Corrective action taken
7-Jul-17	Surface cracking along the surface from GW-312 to GW-307U.	11-14 July 2017- Dirt added and track walked the area with a dozer.

INSPECTOR: Ricky Ontiveros DATE: Sept 2017

Toland Landfill Cover Integrity			
	YES	NO	Location
Cracking surface	x		Grid 35, 36, 22, 20, 19, 23, 37, 38, 30 and 29
Erosion rills		X	
ponding water		X	
exposed trash		X	

Corrective action		
Date	Location	Corrective action taken
6-Sept-2017	Cracking surface * Grid 35, 36, 22, 20, 19, 23, 37, 38, 30 and 29	Sept 6-19 *All areas were track walked and watered down

INSPECTOR: Ricky Ontiveros DATE: 1-OCT-17

Toland Landfill Cover Integrity			
	YES	NO	Location
Cracking surface	X		*Along ditch between G7 312 U and 314 U. *Side slope below GW-26 to GW-27 *side slope to the west of GW-5 to GW-37L *Side slope in grid 55
Erosion rills		X	
ponding water		X	
exposed trash		X	

Corrective action		
Date	Location	Corrective action taken
4-OCT -17	*Along ditch between GW 312 U and 314 U. *Side slope below GW-26 to GW-27 *side slope to the west of GW-5 to GW-37L *Side slope in grid 55	OCT 4-25 *Dirt added and track walked between GW 312 U – GW 314 U *all other areas were track walked and watered down

INSPECTOR: Ricky Ontiveros DATE: 1-Nov-17

Toland Landfill Cover Integrity			
	YES	NO	Location
Cracking surface	X		*Along ditch between G7 312 U and 314 U. *Side slope below GW-26 to GW-27 *side slope to the west of GW-5 to GW-37L *Side slope in grid 55 *East of GW-314 U in grid 34 and 37
Erosion rills		X	
ponding water		X	
exposed trash		X	

Corrective action		
Date	Location	Corrective action taken
1-Nov-17	*Along ditch between G7 312 U and 314 U. *Side slope below GW-26 to GW-27 *side slope to the west of GW-5 to GW-37L *Side slope in grid 55 *East of GW-314 U in grid 34 and 37	Nov 1-28 All areas had dirt added, track walked and watered down

INSPECTOR: Ricky Ontiveros DATE: December 2017

Toland Landfill Cover Integrity			
	YES	NO	Location
Cracking surface	x		Grid 15, 8, 2, 35, 36, 37, 34, 11, 6, 7, 12, 17, 18, 19 and 20
Erosion rills		X	
ponding water		X	
exposed trash		X	

Corrective action		
Date	Location	Corrective action taken
4-Dec-2017	Cracking surface * Grid 15, 8, 2, 35, 36, 37, 34, 11, 6, 7, 12, 17, 18, 19 and 20	Dec 4-28 *All areas were track walked and watered down

ATTACHMENT 2

SEMI-ANNUAL SSM PLAN REPORT

Ventura County
Air Pollution
Control District

RESPONSIBLE OFFICIAL'S CERTIFICATION FORM

Ventura County APCD Rule 33.9 requires that "*any document, including reports, schedule of compliance progress reports and compliance certifications, required by a Part 70 permit shall be certified by a responsible official.*" Therefore, this form shall be signed by the company's Responsible Official and submitted with all such reports, including, but not limited to semi-annual reports, deviation and emergency reports and any periodic reports required by a Part 70 permit. However, when submitting your Annual Compliance Certifications, please use the form titled Annual Compliance Certification Signature Cover Form.

Semi-annual reports, deviations and emergency reports and any periodic reports required by your Part 70 permit should be submitted to:

Daniel Cho
Air Quality Engineer
Ventura County Air Pollution Control District
669 County Square Drive
Ventura, CA 93003

Certification by Responsible Official

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this document is true, accurate, and complete.

Signature and Title of Responsible Official: Signature: _____ Title: Director of Operations	Date: 2/14/18

ATTACHMENT 1

DESCRIPTION OF SSM EVENTS

Reporting period July 1 through December 31, 2017

Start of Event	End of Event	Total Duration (Hrs:Min)	Equipment Affected*	Type of Event	Description of Event	Were SSM Plan Procedures Followed (Y/N)	Date of SSM Plan Revision to Address Event *
7/14/17	7/14/17	2:19	Flare	Malfunction	Flare shutdown due to high oxygen caused by pipe separation	Y	N/A
10/6/17	10/6/17	0:36	Flare	Shutdown/Startup	Flare manually shutdown for scheduled maintenance	Y	N/A
10/9/17	10/10/17	23:50	Flare	Malfunction	Flare shutdown due to SCE power outage	Y	N/A
10/17/17	10/17/17	8:00	Flare	Shutdown/Startup	Flare operated below minimum temperature due to pre-testing for source test	Y	N/A
10/25/17	10/25/17	7:00	Flare	Shutdown/Startup	Flare operated below minimum temperature due to source testing	Y	N/A
10/26/17	10/26/17	6:45	Flare	Shutdown/Startup	Flare operated below minimum temperature due to source testing	Y	N/A
11/16/17	11/16/17	2:32	Flare	Shutdown/Startup	Flare manually shutdown for scheduled flare inspection	Y	N/A
11/21/17	11/21/17	1:12	Flare	Malfunction	Flare shutdown due to blower #1 high vibration	Y	N/A
11/24/17	11/24/17	3:26	Flare	Malfunction	Flare shutdown due to SCE electrical gear failure	Y	N/A
12/5/17	12/5/17	4:12	Flare	Shutdown/Startup	Flare manually shutdown for scheduled flare maintenance	Y	N/A
12/5/17	12/6/17	16:22	Flare	Shutdown/Startup	Flare manually shutdown due to approaching Thomas Fire	Y	N/A

Start of Event	End of Event	Total Duration (Hrs:Min)	Equipment Affected*	Type of Event	Description of Event	Were SSM Plan Procedures Followed (Y/N)	Date of SSM Plan Revision to Address Event *
12/6/17	12/16/17	245:52	Flare	Shutdown/Startup	Flare manually shutdown due to evacuation orders and approaching Thomas Fire	Y	N/A
12/23/17	12/24/17	8:50	Flare	Malfunction	Flare shutdown due to an SCE utility trip	Y	N/A

*Not Applicable if SSM Plan Procedures were followed during event

**Malfunction events assume automatic startup unless otherwise noted

***There were no SSM events for the flare monitoring devices during the reporting period

COLLECTION SYSTEM STARTUP, SHUTDOWN, AND MALFUNCTION LOG
TOLAND ROAD LANDFILL

DEVICE	START OF EVENT DATE AND TIME	END OF EVENT DATE AND TIME	TOTAL DOWNTIME (HRS:MIN)	CAUSE OR REASON	DID SSM VARY FROM PROCEDURE IN SSM PLAN (Y OR N)	WAS THERE AN EXCEEDANCE OF AN EMISSION LIMITATION?	COMPLETED BY:
4S	1/1/2017 8:00	7/10/2017 8:00	4560:00	Disconnected for filling operations	N	N	Alan C.
64S	1/2/2017 10:30	9/5/2017 10:30	5904:00	Disconnected for filling operations	N	N	Alan C.
64D	1/2/17 10:30	9/5/2017 10:30	5904:00	Disconnected for filling operations	N	N	Alan C.
23S	1/9/2017 9:00			Disconnected for filling operations	N	N	Alan C.
23D	1/9/17 9:00			Disconnected for filling operations	N	N	Alan C.
40S	1/9/17 9:00	9/6/2017 8:00	5759:00	Disconnected for filling operations	N	N	Alan C.
40D	1/9/2017 9:00	9/6/2017 8:00	5759:00	Disconnected for filling operations	N	N	Alan C.
24S	1/10/2017 13:00	9/8/2017 10:00	5781:00	Disconnected for filling operations	N	N	Alan C.
24D	1/10/2017 13:00	9/8/2017 10:00	5781:00	Disconnected for filling operations	N	N	Alan C.
53S	4/4/2017 10:30			Disconnected for filling operations	N	N	Alan C.
53D	4/4/2017 10:30			Disconnected for filling operations	N	N	Alan C.
54S	4/14/2017 10:30			Disconnected for filling operations	N	N	Alan C.
54D	4/14/2017 10:30			Disconnected for filling operations	N	N	Alan C.
84S	4/28/2017 13:00			Disconnected for filling operations; offline for operations and possible subsurface oxidation	N	N	Alan C.
311 L	5/9/2017 10:00	11/22/2017 7:00	4725:00	Disconnected for filling operations	N	N	Alan C.
57D	5/9/2017 7:30	7/6/17 8:00	1392:30	Disconnected for filling operations	N	N	Alan C.
49S	5/9/2017 7:30			Disconnected for filling operations	N	N	Alan C.
307L	5/9/2017 10:00			Disconnected for filling operations	N	N	Alan C.
3S	6/12/2017 7:30	7/7/2017 8:00	600:30	Disconnected for filling operations	N	N	Alan C.
3D	6/12/2017 7:30	7/7/2017 8:00	600:30	Disconnected for filling operations	N	N	Alan C.
35S	5/9/17 7:30			Disconnected for filling operations	N	N	Alan C.
36S	5/9/2017 7:30	11/22/2017 8:00	4728:30	Disconnected for filling operations	N	N	Alan C.
37S	5/9/2017 7:30	11/22/2017 8:00	4728:30	Disconnected for filling operations	N	N	Alan C.
43S	5/9/2017 7:30	11/22/2017 8:00	4728:30	Disconnected for filling operations	N	N	Alan C.
43D	5/9/2017 7:30	11/22/2017 8:00	4728:30	Disconnected for filling operations	N	N	Alan C.
44S	5/9/2017 7:30	11/21/2017 8:00	4704:30	Disconnected for filling operations	N	N	Alan C.
44D	5/9/2017 7:30	11/21/2017 8:00	4704:30	Disconnected for filling operations	N	N	Alan C.
53S	4/14/2017 10:00			Disconnected for filling operations	N	N	Alan C.
53D	4/14/2017 10:00			Disconnected for filling operations and possible subsurface oxidation	N	N	Ricky O

COLLECTION SYSTEM STARTUP, SHUTDOWN, AND MALFUNCTION LOG
TOLAND ROAD LANDFILL

DEVICE	START OF EVENT DATE AND TIME	END OF EVENT DATE AND TIME	TOTAL DOWNTIME (HRS:MIN)	CAUSE OR REASON	DID SSM VARY FROM PROCEDURE IN SSM PLAN (Y OR N)	WAS THERE AN EXCEEDANCE OF AN EMISSION LIMITATION?	COMPLETED BY:
54S	5/26/2017 14:00			Disconnected for filling operations and possible subsurface oxidation	N	N	Ricky O
54D	4/5/2017 10:00			Disconnected for filling operations	N	N	Ricky O
1S	7/12/2017 7:00			Disconnected for filling operations	N	N	Alan C.
2S	7/12/2017 7:00			Disconnected for filling operations	N	N	Alan C.
2D	7/12/2017 7:00			Disconnected for filling operations	N	N	Alan C.
22S	7/12/2017 11:00	N/A	N/A	Disconnected due to concern for potential subsurface oxidation and pinched; Abandoned on 12/20/17	N	N	Ricky O.
310U	6/14/2017 8:00	N/A	N/A	Gas well abandoned due to potential subsurface oxidation	N	N	Ricky O.
400U	7/5/2017 8:00	N/A	N/A	Gas well abandoned due to potential subsurface oxidation	N	N	Ricky O.
42S	7/11/2017 7:00	N/A	N/A	Gas well permanently abandoned due to potential subsurface oxidation and pinched gas well	N	N	Ricky O.
58S	7/10/2017 8:00	N/A	N/A	Gas well permanently abandoned due to potential subsurface oxidation and pinched gas well	N	N	Ricky O
61S	8/8/2017 13:00	N/A	N/A	Gas well permanently abandoned due to potential subsurface oxidation and pinched gas well	N	N	Ricky O
61M	7/11/2017 15:00	N/A	N/A	Gas well permanently abandoned due to potential subsurface oxidation and pinched gas well	N	N	Ricky O
61D	8/8/2017 12:00	N/A	N/A	Gas well permanently abandoned due to potential subsurface oxidation and pinched gas well	N	N	Ricky O.
3S	8/3/2017 7:00	N/A	N/A	Gas well permanently abandoned due to potential subsurface oxidation and pinched gas well	N	N	Ricky O.
3D	8/3/2017 7:00	N/A	N/A	Gas well permanently abandoned due to potential subsurface oxidation and pinched gas well	N	N	Ricky O.

COLLECTION SYSTEM STARTUP, SHUTDOWN, AND MALFUNCTION LOG
TOLAND ROAD LANDFILL

DEVICE	START OF EVENT DATE AND TIME	END OF EVENT DATE AND TIME	TOTAL DOWNTIME (HRS:MIN)	CAUSE OR REASON	DID SSM VARY FROM PROCEDURE IN SSM PLAN (Y OR N)	WAS THERE AN EXCEEDANCE OF AN EMISSION LIMITATION?	COMPLETED BY:
14S	8/5/2017 8:00			Disconnected for filling operations	N	N	Alan C.
14D	8/5/2017 8:00			Disconnected for filling operations	N	N	Alan C.
15S	8/5/2017 8:00			Disconnected for filling operations	N	N	Alan C.
15D	8/5/2017 8:00			Disconnected for filling operations	N	N	Alan C.
59S	9/20/17 8:00	11/6/2017 12:00	1132:00	Disconnected for filling operations	N	N	Alan C.
70S	9/20/2017 10:00			Disconnected for filling operations	N	N	Alan C.
62S	10/17/2017 10:00			Disconnected for filling operations	N	N	Ricky O.
62D	10/17/2017 13:00			Disconnected for filling operations	N	N	Ricky O.
68S	10/17/2017 7:00	1/24/2018 11:00	2380:00	Disconnected for filling operations	N	N	Alan C.
69S	8/23/2017 13:00			Disconnected for filling operations	N	N	Ricky O.
20S	8/24/17 10:00	N/A	N/A	Gas well permanently abandoned due to potential subsurface oxidation and pinched gas well	N	N	Ricky O.
25S	10/11/2017 14:00	N/A	N/A	Disconnected for filling operations and possible subsurface oxidation; permanently abandoned 12/20/2017 10:00 due to pinched gas well	N	N	Ricky O.
25D	10/11/2017 14:00	N/A	N/A	Disconnected for filling operations and possible subsurface oxidation; permanently abandoned 12/20/2017 10:00 due to pinched gas well	N	N	Ricky O.
64S	10/11/2017 13:30	N/A	N/A	Permanently abandoned due to possible subsurface oxidation and gas well is pinched below the surface.	N	N	Ricky O.
64D	10/11/2017 13:30	N/A	N/A	Permanently abandoned due to possible subsurface oxidation and gas well is pinched below the surface.	N	N	Ricky O.
41S	10/11/17 14:00	N/A	N/A	Disconnected for filling operations and possible subsurface oxidation; permanently abandoned 12/20/2017 12:00 due to pinched gas well	N	N	Ricky O.

COLLECTION SYSTEM STARTUP, SHUTDOWN, AND MALFUNCTION LOG
TOLAND ROAD LANDFILL

DEVICE	START OF EVENT DATE AND TIME	END OF EVENT DATE AND TIME	TOTAL DOWNTIME (HRS:MIN)	CAUSE OR REASON	DID SSM VARY FROM PROCEDURE IN SSM PLAN (Y OR N)	WAS THERE AN EXCEEDANCE OF AN EMISSION LIMITATION?	COMPLETED BY:
41D	10/11/17 14:00	N/A	N/A	Disconnected for filling operations and possible subsurface oxidation; permanently abandoned 12/20/2017 12:00 due to pinched gas well	N	N	Ricky O.
63S	10/16/2017 14:00	N/A	N/A	Disconnected for filling operations and possible subsurface oxidation; permanently abandoned 12/20/2017 13:00 due to pinched gas well	N	N	Ricky O.
63D	10/16/2017 14:00	N/A	N/A	Disconnected for filling operations and possible subsurface oxidation; permanently abandoned 12/20/2017 13:00 due to pinched gas well	N	N	Ricky O.
84	6/12/2017 15:00			Gas well disconnected for filling operations and possible subsurface oxidation	N	N	Ricky O.
1701A	11/9/17 12:00	N/A	N/A	New gas well	N	N	Ricky O.
1702A	11/9/2017 12:00	N/A	N/A	New gas well	N	N	Ricky O.
1703A	11/9/2017 12:00	N/A	N/A	New gas well	N	N	Ricky O.
4S	10/17/2017 14:00			Disconnected for filling operations	N	N	Ricky O.
5S	10/17/2017 14:00	1/31/2018 12:00	2542:00	Disconnected for filling operations	N	N	Ricky O.
75S	8/7/2017 10:00	N/A	N/A	New gas well	N	N	Ricky O.
75D	8/7/2017 10:00	N/A	N/A	New gas well	N	N	Ricky O.
73S	8/23/2017 8:00	N/A	N/A	New gas well	N	N	Ricky O.
83S	8/3/2017 13:00			Disconnected for filling operations	N	N	Ricky O.
83D	8/3/2017 13:00			Disconnected for filling operations	N	N	Ricky O.
24S	11/14/2017 12:00	N/A	N/A	Gas well permanently abandoned due to potential subsurface oxidation and pinched gas well	N	N	Ricky O.
24D	11/14/2017 12:00	N/A	N/A	Gas well permanently abandoned due to potential subsurface oxidation and pinched gas well	N	N	Ricky O.
18S	11/22/2017 8:00			Disconnected for filling operations	N	N	Ricky O.
18D	11/22/2017 8:00			Disconnected for filling operations	N	N	Ricky O.
47S	11/22/2017 8:00			Disconnected for filling operations	N	N	Ricky O.

COLLECTION SYSTEM STARTUP, SHUTDOWN, AND MALFUNCTION LOG
TOLAND ROAD LANDFILL

DEVICE	START OF EVENT DATE AND TIME	END OF EVENT DATE AND TIME	TOTAL DOWNTIME (HRS:MIN)	CAUSE OR REASON	DID SSM VARY FROM PROCEDURE IN SSM PLAN (Y OR N)	WAS THERE AN EXCEEDANCE OF AN EMISSION LIMITATION?	COMPLETED BY:
48D	11/22/2017 8:00			Disconnected for filling operations	N	N	Ricky O.
48S	11/22/2017 8:00			Disconnected for filling operations	N	N	Ricky O.
67S	11/22/2017 8:00			Disconnected for filling operations	N	N	Ricky O.
67D	11/22/2017 8:00			Disconnected for filling operations	N	N	Ricky O.
40D	12/29/2017 14:00	N/A	N/A	Gas well permanently abandoned due to potential subsurface oxidation and pinched gas well	N	N	Ricky O.
304U	12/20/2017 7:00	N/A	N/A	Gas well abandoned due to potential subsurface oxidation	N	N	Ricky O.
16S	8/15/17 10:30	8/15/2017 15:15	4:45	Offline for pipe maintenance	N	N	Alan C.
16D	8/15/2017 10:30	8/15/2017 15:15	4:45	Offline for pipe maintenance	N	N	Alan C.
17S	8/15/2017 10:30	8/15/2017 15:15	4:45	Offline for pipe maintenance	N	N	Alan C.
15S	8/15/2017 10:30	8/15/2017 15:15	4:45	Offline for pipe maintenance	N	N	Alan C.
15D	8/15/2017 10:30	8/15/2017 15:15	4:45	Offline for pipe maintenance	N	N	Alan C.
4S	8/15/2017 10:30	8/15/2017 15:15	4:45	Offline for pipe maintenance	N	N	Alan C.
5S	8/15/2017 10:30	8/15/2017 15:15	4:45	Offline for pipe maintenance	N	N	Alan C.
17S	10/2/2017 11:00			Disconnected for filling operations	N	N	Alan C.
17D	10/2/2017 11:00			Disconnected for filling operations	N	N	Alan C.
16S	10/2/2017 11:00			Disconnected for filling operations	N	N	Alan C.
16D	10/2/2017 11:00			Disconnected for filling operations	N	N	Alan C.
16D	11/10/2017 10:00	N/A	N/A	Gas well permanently abandoned due to potential subsurface oxidation and pinched gas well	N	N	Ricky O.
17D	11/10/2017 10:00	N/A	N/A	Gas well permanently abandoned due to potential subsurface oxidation and pinched gas well	N	N	Ricky O.
67S	12/1/2017 14:30			Disconnected for filling operations	N	N	Ricky O.
31D	12/27/2017 10:00	1/2/2018 9:58	143:58	Disconnected due to possible subsurface oxidation. Elevated tempeture and elevated CO	N	N	Ricky O.
67D	12/1/2017 14:30			Disconnected for filling operations	N	N	Ricky O.
321 EDGE	12/5/2017 9:30	N/A	N/A	Gas well permanently abandoned due to fire	N	N	Ricky O
322	12/5/2017 9:30			Gas well shutdown due to fire onsite	N	N	Ricky O

Toland Road Landfill

2017 Microturbine Run Log

MT ID	Date	Stop	Date	Start	h:m	Reason
E3	7/2/2017	11:05	7/2/2017	13:10	2:05	TRP - Flame Out due to Vilter - High Discharge Temperature
E4	7/2/2017	11:05	7/2/2017	13:14	2:08	
E5	7/2/2017	11:07	7/2/2017	13:18	2:11	
E3	7/3/2017	10:45	7/3/2017	13:22	2:36	
E4	7/3/2017	10:46	7/3/2017	13:13	2:26	
E5	7/3/2017	10:47	7/3/2017	13:20	2:32	
E3	7/4/2017	8:51	7/4/2017	11:36	2:45	TRP - Flame Out due to Vilter - High Discharge Temperature
E4	7/4/2017	8:52	7/4/2017	11:39	2:47	
E5	7/4/2017	8:53	7/4/2017	11:43	2:50	
E3	7/5/2017	11:09	7/5/2017	12:39	1:30	TRP - Flame Out due to Vilter - High Discharge Temperature
E4	7/5/2017	11:10	7/5/2017	12:43	1:33	
E5	7/5/2017	11:11	7/5/2017	12:47	1:36	
E3	7/5/2017	12:44	7/5/2017	13:43	0:59	TRP-Flame Out due to AL2-EGT High
E3	7/8/2017	8:35	7/8/2017	10:17	1:42	TRP - Flame Out
E4	7/8/2017	8:36	7/8/2017	10:11	1:35	TRP - Flame Out
E5	7/8/2017	8:37	7/8/2017	10:16	1:39	TRP - Flame Out
E5	7/8/2017	10:20	7/8/2017	18:02	7:42	TRP - Flame Out
E3	7/8/2017	10:22	7/8/2017	18:03	7:41	TRP - Ramping Sequence
E3	7/9/2017	9:53	7/10/2017	7:38	21:46	TRP - Flame Out
E4	7/9/2017	9:54	7/10/2017	7:25	21:31	TRP - Flame Out
E5	4/9/2017	9:55	7/10/2017	7:29	21:34	TRP - Flame Out
E3	7/10/2017	7:39	7/10/2017	7:45	0:06	TRP - SpeedSw Strt Fault
E3	7/10/2017	7:46	7/10/2017	8:18	0:32	TRP - SpeedSw Strt Fault
E4	7/10/2017	7:27	7/10/2017	7:44	0:17	TRP- Surge Detect
E5	7/10/2017	7:30	7/10/2017	7:42	0:12	Stopped
E3	7/11/2017	7:37	8/22/2017	13:44	1,014.07	Stopped - Vilter Maint Req'd.
E4	7/11/2017	7:37	7/31/2017	9:44	482.07	Stopped - Vilter Maint Req'd.
E5	7/11/2017	7:39	7/31/2017	10:19	482.40	Stopped - Vilter Maint Req'd.
E4	7/31/2017	10:57	8/22/2017	13:37	530.40	TRP - Flame Out
E5	7/31/2017	10:59	8/22/2017	14:36	531.37	TRP - Flame Out
E6	7/31/2017	10:32	8/1/2017	11:08	24.36	TRP - Coolant Temp High
E6	8/1/2017	11:36	8/22/2017	14:38	507.02	Stop
E3	8/22/2017	13:44	9/7/2017	15:44	386.00	TRP - SpeedSw Strt Fault
E6	8/22/2017	15:05	8/23/2017	7:49	16.54	TRP - Coolant Temp High
E4	8/23/2017	5:00	8/23/2017	7:42	2:42	TRP-Utility Fault
E5	8/23/2017	5:03	8/23/2017	7:48	2:45	TRP-Utility Fault
E6	8/23/2017	8:42	8/24/2017	7:02	23.44	TRP - Utility Fault
E4	8/23/2017	8:43	8/23/2017	10:07	1:24	TRP - Utility Fault
E5	8/23/2017	8:46	8/23/2017	10:12	1:26	TRP - Utility Fault

Toland Road Landfill

2017 Microturbine Run Log

MT ID	Date	Stop	Date	Start	h:m	Reason
E4	8/24/2017	2:27	8/24/2017	6:57	4:30	TRP - Utility Fault
E5	8/24/2017	2:29	8/24/2017	7:01	4:32	TRP - Utility Fault
E6	8/24/2017	7:34	8/24/2017	13:43	6:09	TRP-Coolant Temp High
E6	8/24/2017	14:10	9/8/2017	8:00	345:50	TRP-Coolant Temp High
E4	8/27/2017	10:25	8/27/2017	13:30	3:05	TRP - Emergency Stop
E5	8/27/2017	10:27	8/27/2017	13:36	3:09	TRP - Emergency Stop
E4	8/31/2017	6:34	8/31/2017	7:50	1:16	TRP - Utility Fault
E4	9/2/2017	19:51	9/3/2017	9:58	15:07	TRP -Generator Fault
E5	9/2/2017	19:54	9/3/2017	10:05	15:11	TRP-Generator Fault
E4	9/5/2017	0:53	9/5/2017	7:55	7:02	Analysis Log Triggered
E5	9/5/2017	0:53	9/5/2017	8:08	7:15	Analysis Log Triggered
E4	9/6/2017	6:20	9/6/2017	16:21	10:01	Vilter Mainenance - Carbon Change-Out
E5	9/6/2017	6:25	9/6/2017	16:25	10:00	Vilter Mainenance - Carbon Change-Out
E4	9/7/2017	9:43	9/7/2017	11:13	1:30	TRP - Utility Fault
E5	9/7/2017	9:45	9/7/2017	11:18	1:33	TRP - Utility Fault
E3	9/17/2017	10:56	9/17/2017	13:11	2:15	TRP - Utility Fault
E4	9/17/2017	10:57	9/17/2017	13:11	2:14	TRP - Utility Fault
E5	9/17/2017	11:00	9/17/2017	13:16	2:16	TRP - Utility Fault
E6	9/17/2017	10:55	9/17/2017	13:11	2:16	TRP - Utility Fault
E3	9/21/2017	8:00	9/21/2017	9:02	1:02	TRP - Utility Fault
E4	9/21/2017	8:01	9/21/2017	9:04	1:03	TRP - Utility Fault
E5	9/21/2017	8:04	9/21/2017	9:09	1:05	TRP - Utility Fault
E6	9/21/2017	8:00	9/21/2017	9:06	1:06	TRP - Utility Fault
E3	9/21/2017	12:33	9/21/2017	13:36	1:03	TRP - 4G Tripped Open / TRP - Utility Fault
E4	9/21/2017	12:34	9/21/2017	13:38	1:04	TRP - Utility Fault
E5	9/21/2017	12:37	9/21/2017	13:43	1:06	TRP - 4G Tripped Open / TRP - Utility Fault
E6	9/21/2017	12:33	9/21/2017	13:40	1:07	TRP - 4G Tripped Open / TRP - Utility Fault
E3	10/3/2017	1:48	10/3/2017	8:20	6:32	TRP - 4G Tripped Open / TRP - Utility Fault
E4	10/3/2017	1:49	10/3/2017	8:04	6:15	TRP - Utility Fault
E5	10/3/2017	1:52	10/3/2017	8:16	6:24	TRP - Utility Fault / TRP - Grid Fault
E6	10/3/2017	1:48	10/3/2017	8:16	6:28	TRP - 4G Tripped Open / TRP - Utility Fault
E3	10/3/2017	8:21	10/3/2017	9:24	1:03	TRP - Utility Fault
E4	10/3/2017	8:22	10/3/2017	9:17	0:55	TRP - Utility Fault
E5	10/3/2017	8:25	10/3/2017	9:23	0:58	TRP - Utility Fault
E6	10/3/2017	8:21	10/3/2017	9:23	1:02	TRP - Utility Fault / TRP - Grid Fault
E3	10/3/2017	9:29	10/3/2017	10:47	1:18	TRP - Utility Fault / TRP - Grid Fault

Toland Road Landfill

2017 Microturbine Run Log

MT ID	Date	Stop	Date	Start	h:m	Reason
E4	10/3/2017	9:30	10/3/2017	10:42	1:12	TRP - 4G Tripped Open / TRP - Utility Fault
E5	10/3/2017	9:33	10/3/2017	10:48	1:15	TRP - Utility Fault
E6	10/3/2017	9:23	10/3/2017	9:28	0:05	TRP - SpeedSw Strt Fault
E6	10/3/2017	9:29	10/3/2017	14:44	5:15	TRP - SpeedSw Strt Fault / TRP - Utility Fault
E3	10/3/2017	10:51	10/3/2017	14:48	3:57	TRP - 4G Tripped Open / TRP - Utility Fault
E4	10/3/2017	10:53	10/3/2017	12:26	1:33	TRP - Utility Fault
E5	10/3/2017	10:56	10/3/2017	12:32	1:36	TRP - 4G Tripped Open / TRP - Utility Fault
E3	10/3/2017	14:50	10/3/2017	14:59	0:09	TRP - Utility Fault
E4	10/3/2017	14:52	10/3/2017	16:47	1:55	TRP - 4G Tripped Open / TRP - Utility Fault
E5	10/3/2017	14:55	10/3/2017	16:46	1:51	TRP - 4G Tripped Open / TRP - Utility Fault
E6	10/3/2017	14:51	10/3/2017	16:37	1:46	TRP - 4G Tripped Open / TRP - Utility Fault
E3	10/3/2017	16:45	10/4/2017	7:33	14:48	TRP - Utility Fault
E5	10/3/2017	16:46	10/4/2017	7:54	15:08	TRP - Utility Fault / TRP - Grid Fault
E6	10/3/2017	16:45	10/4/2017	7:59	15:14	TRP - Utility Fault
E3	10/4/2017	9:08	10/10/2017	12:31	147:23	TRP - 4G Tripped Open / TRP - Utility Fault - Beckwith Failure
E4	10/4/2017	9:10	10/10/2017	12:48	147:38	TRP - Utility Fault / TRP - Grid Fault - Beckwith Failure
E5	10/4/2017	9:13	10/10/2017	12:43	147:30	TRP - Utility Fault / TRP - Grid Fault - Beckwith Failure
E6	10/4/2017	9:08	10/10/2017	12:49	147:41	TRP - Utility Fault
E3	10/14/2017	18:05	10/16/2017	12:10	42:00	TRP - Flame Out /Compressor High DP
E4	10/14/2017	18:07	10/16/2017	12:14	42:07	TRP - Flame Out /Compressor High DP
E5	10/14/2017	18:09	10/16/2017	12:22	42:13	TRP - Flame Out /Compressor High DP
E6	10/14/2017	18:05	10/16/2017	14:34	44:29	TRP - Flame Out /Compressor High DP
E6	10/16/2017	15:24	10/16/2017	17:28	2:04	TRP - SpeedSw Switch Fault / TRP - Cooland Temp High
E6	10/16/2017	17:39	10/17/2017	16:56	23:17	TRP - Cooland Temp High
E6	10/17/2017	17:20	10/18/2017	14:38	21:18	TRP - Cooland Temp High

Toland Road Landfill
2017 Microturbine Run Log

MT ID	Date	Stop	Date	Start	h:m	Reason
E3	10/18/2017	6:37	10/18/2017	14:48	8:11	Vilter Mainenance - Carbon Change-Out
E4	10/18/2017	6:40	10/18/2017	14:35	7:55	Vilter Mainenance - Carbon Change-Out
E5	10/18/2017	6:43	10/18/2017	14:54	8:11	Vilter Mainenance - Carbon Change-Out
E6	10/18/2017	15:04	10/18/2017	16:38	1:34	TRP - SpeedSw Switch Fault / TRP - Cooland Temp High
E6	10/18/2017	16:51	11/2/017	15:05	293:14	TRP - SpeedSw Switch Fault / TRP - Cooland Temp High
E3	10/24/2017	12:44	10/24/2017	17:29	4:45	TRP - Encl Temp High / TRP - Generator Fault / AL1-52G Open Fault / TRP - Grid Fault / TRP- Emergency Stop / TRP - AL1 Fault
E4	10/24/2017	12:46	10/24/2017	17:24	4:38	TRP-Emergency Stop / TRP - Encl Temp High / TRP - Generator Fault / AL1-52G Open Fault / TRP - Utility Fault
E5	10/24/2017	12:49	10/24/2017	17:30	4:41	TRP-Encl Temp High / TRP - Generator Fault / AL1 - 52G Open Fault / TRP - Utility Fault / TRP-Grid Fault / TRP-Emergency Stop
E3	10/25/2017	14:53	10/25/2017	17:17	2:24	TRP - Flame Out
E4	10/25/2017	14:55	10/25/2017	17:11	2:16	TRP - Flame Out
E5	10/25/2017	14:48	10/25/2017	17:18	2:30	TRP - Flame Out
E4	10/27/2017	18:35	11/1/2017	15:22	92:47	TRP-Coolant Pres Low
E3	10/28/2017	21:14	10/29/2017	12:18	15:04	TRP - Generator Fault
E5	10/28/2017	21:19	10/29/2017	12:26	15:07	TRP - Generator Fault
E6	11/2/2017	15:38	11/15/2017	12:27		TRP - Coolant Temp High
E5	11/3/2017	8:14	11/3/2017	18:50	10:36	Stop
E5	11/11/2017	11:04	11/12/2017	9:22	22:18	TRP - AL2 Fault, AL2-EGT Sene Fail
E5	11/14/2017	9:31	11/14/2017	12:45	3:14	TRP - AL2 Fault, AL2-EGT Sene Fail
E5	11/15/2017	10:19	11/15/2017	15:53	5:34	Stopped - Scheduled 8K Maintenance
E3	11/15/2017	16:25	TBD			Vilter Shaft Seal Failure
E4	11/15/2017	16:43	TBD			Vilter Shaft Seal Failure
E5	11/15/2017	16:39	TBD			Vilter Shaft Seal Failure
E6	11/15/2017	16:41	TBD			Vilter Shaft Seal Failure

Toland Road Landfill
2017 Microturbine Run Log

MT ID	*Date*	*Stop*	*Date*	*Start*	*h:m*	*Reason*
All	12/6/2017		TBD			Thomas Fire - DPG Meter Damaged

Startup, Shutdown, and Malfunction Plan Deviation Report

Facility: Toland Road Landfill Date Form Completed: 09-18-2017

Unit ID: Flare, Microturbines (Compressor)

Event: ☑ *appropriate box.*

☐ Startup ☐ Shutdown ☑ Malfunction

Date: 07-14-2017 Time: 0:30 AM – 2:49 AM

Duration: 2 Hours 19 Minutes

Provide detailed explanation of the circumstance of the startup, shutdown, malfunction:
The Toland Flare shutdown at 00:30 due to a pipe separation causing a high oxygen automatic shutdown.

Provide description of corrective action:
The APCD Breakdown line was called at 00:45 by Ricardo Ontiveros. The pipe was quickly located and repaired. The flare restarted and operating at temperature by 02:49.

Describe the reasons the Startup, Shutdown, Malfunction Plan was not adequate:

Describe proposed revisions to the Startup, Shutdown, Malfunction Plan:

Were any excess emissions and/ or parameter monitoring exceedances believed to have occurred during the event:

☐ Yes ☑ No

Startup, Shutdown, and Malfunction Plan Deviation Report

Facility: Toland Road Landfill Date Form Completed: 10-09-2017

Unit ID: Flare, Microturbines (Compressor)

Event: ☑ *appropriate box.*

☐ Startup ☑ Shutdown ☐ Malfunction

Date: 10-06-2017 Time: 11:28 AM – 12:04 PM

Duration: 0 Hours 36 Minutes

Provide detailed explanation of the circumstance of the startup, shutdown, malfunction:
The Toland Flare was shut down at 11:28 AM for scheduled maintenance on the electrical infrastructure that serves the microturbine to grid system.

Provide description of corrective action:
The flare was restarted and operating at temperature by 12:04 PM.

Describe the reasons the Startup, Shutdown, Malfunction Plan was not adequate:

Describe proposed revisions to the Startup, Shutdown, Malfunction Plan:

Were any excess emissions and/ or parameter monitoring exceedances believed to have occurred during the event:

☐ Yes ☑ No

Startup, Shutdown, and Malfunction Plan Deviation Report

Facility: Toland Road Landfill Date Form Completed: 10-10-2017

Unit ID: Flare, Microturbines (Compressor)

Event: ☑ *appropriate box.*

☐ Startup ☐ Shutdown ☑ Malfunction

Date: 10-09-2017 Time: 08:19 AM – 10-10-19 08:09 AM

Duration: 23 Hours 50 Minutes

Provide detailed explanation of the circumstance of the startup, shutdown, malfunction:
The Toland Flare shut down on Monday 10-09-17 at 08:19 AM due to an SCE Power Outage in the Area.

Provide description of corrective action:
SCE Power was restored to the Facility on Tuesday 10-09-17 at 17:48. Troubleshooting was required to re-establish communication with the LFG Analyzer and several resets were required. The flare was restarted and operating at temperature on Tuesday 10-10-17 at 08:09 AM.

Describe the reasons the Startup, Shutdown, Malfunction Plan was not adequate:

Describe proposed revisions to the Startup, Shutdown, Malfunction Plan:

Were any excess emissions and/ or parameter monitoring exceedances believed to have occurred during the event:

☐ Yes ☑ No

Startup, Shutdown, and Malfunction Plan Deviation Report

Facility: Toland Road Landfill Date Form Completed: 10-18-2017

Unit ID: Flare, Microturbines (Compressor)

Event: ☑ *appropriate box.*

☐ Startup ☐ Shutdown ☐ Malfunction

Date: 10-17-2017 Time: 8:45 PM – 4:45 PM

Duration: 8 Hours 0 Minutes

Provide detailed explanation of the circumstance of the startup, shutdown, malfunction:
Toland Flare Engineering Test – Flare was operating below temperature.

Provide description of corrective action:
Flare operated back at permitted temperature after source test completed.

Describe the reasons the Startup, Shutdown, Malfunction Plan was not adequate:

Describe proposed revisions to the Startup, Shutdown, Malfunction Plan:

Were any excess emissions and/ or parameter monitoring exceedances believed to have occurred during the event:

☐ Yes ☑ No

Startup, Shutdown, and Malfunction Plan Deviation Report

Facility: Toland Road Landfill Date Form Completed: 10-26-2017

Unit ID: Flare, Microturbines (Compressor)

Event: ☑ *appropriate box.*

☐ Startup ☐ Shutdown ☐ Malfunction

Date: 10-25-2017 Time: 8:15 PM – 3:45 PM

Duration: 7 Hours 0 Minutes

Provide detailed explanation of the circumstance of the startup, shutdown, malfunction:
Toland Flare Source Test – Flare was operating below temperature.

Provide description of corrective action:
Flare operated back at permitted temperature after source test completed.

Describe the reasons the Startup, Shutdown, Malfunction Plan was not adequate:

Describe proposed revisions to the Startup, Shutdown, Malfunction Plan:

Were any excess emissions and/ or parameter monitoring exceedances believed to have occurred during the event:

☐ Yes ☑ No

Startup, Shutdown, and Malfunction Plan Deviation Report

Facility: Toland Road Landfill Date Form Completed: 10-30-2017

Unit ID: Flare, Microturbines (Compressor)

Event: ☑ *appropriate box.*

☐ Startup ☐ Shutdown ☐ Malfunction

Date: 10-26-2017 Time: 6:15 PM – 1:00 PM

Duration: 6 Hours 45 Minutes

Provide detailed explanation of the circumstance of the startup, shutdown, malfunction:
Toland Flare Source Test – Flare was operating below temperature.

Provide description of corrective action:
Flare operated back at permitted temperature after source test completed.

Describe the reasons the Startup, Shutdown, Malfunction Plan was not adequate:

Describe proposed revisions to the Startup, Shutdown, Malfunction Plan:

Were any excess emissions and/ or parameter monitoring exceedances believed to have occurred during the event:

☐ Yes ☑ No

Startup, Shutdown, and Malfunction Plan Deviation Report

Facility: Toland Road Landfill Date Form Completed: 11-16-2017

Unit ID: Flare, Microturbines (Compressor)

Event: ☑ *appropriate box.*

☐ Startup ☑ Shutdown ☐ Malfunction

Date: 11-16-2017 Time: 9:36 AM – 12:08 PM

Duration: 2 Hours 32 Minutes

Provide detailed explanation of the circumstance of the startup, shutdown, malfunction:
The Toland Flare was shut down at 09:08 AM for scheduled flare inspection. All Microturbines are off due to scheduled Compressor maintenance.

Provide description of corrective action:
The flare was restarted and operating at temperature by 12:08 PM.

Describe the reasons the Startup, Shutdown, Malfunction Plan was not adequate:

Describe proposed revisions to the Startup, Shutdown, Malfunction Plan:

Were any excess emissions and/ or parameter monitoring exceedances believed to have occurred during the event:

☐ Yes ☑ No

Startup, Shutdown, and Malfunction Plan Deviation Report

Facility: Toland Road Landfill Date Form Completed: 11-21-2017

Unit ID: Flare, Microturbines (Compressor)

Event: ☑ *appropriate box.*

☐ Startup ☐ Shutdown ☑ Malfunction

Date: 11-21-2017 Time: 2:42 PM – 3:54 PM

Duration: 1 Hours 12 Minutes

Provide detailed explanation of the circumstance of the startup, shutdown, malfunction:
The Toland Flare was shut down at 2:42 PM due to blower #1 high vibration.

Provide description of corrective action:
Switched to blower #2 and the Flare was restarted and operating at temperature at 3:54 PM.

Describe the reasons the Startup, Shutdown, Malfunction Plan was not adequate:

Describe proposed revisions to the Startup, Shutdown, Malfunction Plan:

Were any excess emissions and/ or parameter monitoring exceedances believed to have occurred during the event:

☐ Yes ☑ No

Startup, Shutdown, and Malfunction Plan Deviation Report

Facility: Toland Road Landfill Date Form Completed: 12-01-2017

Unit ID: Flare, Microturbines (Compressor)

Event: ☑ *appropriate box.*

☐ Startup ☐ Shutdown ☑ Malfunction

Date: 11-24-2017 Time: 16:12 AM/PM – 19:38 AM/PM

Duration: 3 Hours 26 Minutes

Provide detailed explanation of the circumstance of the startup, shutdown, malfunction:
The Toland Flare shutdown at 16:12 due to an SCE electrical gear failure resulting in a local area power outage.

Provide description of corrective action:
The APCD Breakdown Line was notified on 11/24/17 at 18:15 with a follow-up e-mail on 11/28/17 at 16:26 by Mark Potter. The Flare was restarted and operating at temperature on 11-24-17 at 19:38.

Describe the reasons the Startup, Shutdown, Malfunction Plan was not adequate:

Describe proposed revisions to the Startup, Shutdown, Malfunction Plan:

Were any excess emissions and/ or parameter monitoring exceedances believed to have occurred during the event:

☐ Yes ☑ No

Startup, Shutdown, and Malfunction Plan Deviation Report

Facility: Toland Road Landfill Date Form Completed: 12-05-2017

Unit ID: Flare, Microturbines (Compressor)

Event: ☑ *appropriate box.*

☐ Startup ☑ Shutdown ☐ Malfunction

Date: 12-05-2017 Time: 9:57 AM thru 2:09 PM

Duration: 4 Hours 12 Minutes

Provide detailed explanation of the circumstance of the startup, shutdown, malfunction:
The Toland Flare was shut off at 09:57 AM for scheduled flare maintenance.

Provide description of corrective action:
The Flare was restarted and operating at temperature at 2:09 PM.

Describe the reasons the Startup, Shutdown, Malfunction Plan was not adequate:

Describe proposed revisions to the Startup, Shutdown, Malfunction Plan:

Were any excess emissions and/ or parameter monitoring exceedances believed to have occurred during the event:

☐ Yes ☑ No

Startup, Shutdown, and Malfunction Plan Deviation Report

Facility: Toland Road Landfill Date Form Completed: 12-11-2017

Unit ID: Flare, Microturbines (Compressor)

Event: ☑ *appropriate box.*

☐ Startup ☑ Shutdown ☐ Malfunction

Date: 12-05-2017 Time: 12-05-17 3:09 PM thru 12-06-17 7:31 AM

Duration: 16 Hours 22 Minutes

Provide detailed explanation of the circumstance of the startup, shutdown, malfunction:
The Toland Flare was shut off on 12-05-17 at 3:09 PM due to the approaching Thomas Fire.

Provide description of corrective action:
The Flare was restarted and operating at temperature on 12-06-17 at 7:31 AM.

Describe the reasons the Startup, Shutdown, Malfunction Plan was not adequate:

Describe proposed revisions to the Startup, Shutdown, Malfunction Plan:

Were any excess emissions and/ or parameter monitoring exceedances believed to have occurred during the event:

☐ Yes ☑ No

Startup, Shutdown, and Malfunction Plan Deviation Report

Facility: Toland Road Landfill Date Form Completed: 12-19-2017

Unit ID: Flare, Microturbines (Compressor)

Event: ☑ *appropriate box.*

☐ Startup ☑ Shutdown ☐ Malfunction

Date: 12-06-2017 Time: 12-06-17 8:43 AM thru 12-16-17 2:35 PM

Duration: 245 Hours 52 Minutes

Provide detailed explanation of the circumstance of the startup, shutdown, malfunction:
VRSD staff was ordered to evacuate the site by Fire Officials because of the possibility of the Thomas Fire overtaking the site. The Toland Flare was shut off on Thursday 12-06-17 at 09:30 AM.

Provide description of corrective action:
Header pipes lost from the Thomas Fire were replaced and the flare was restarted and operating at temperature on 12-16-17 at 2:35 PM.

Describe the reasons the Startup, Shutdown, Malfunction Plan was not adequate:

Describe proposed revisions to the Startup, Shutdown, Malfunction Plan:

Were any excess emissions and/ or parameter monitoring exceedances believed to have occurred during the event:

☐ Yes ☑ No

Startup, Shutdown, and Malfunction Plan Deviation Report

Facility: Toland Road Landfill Date Form Completed: 01-08-2018

Unit ID: Flare, Microturbines (Compressor)

Event: ☑ *appropriate box*

☐ Startup ☑ Shutdown ☐ Malfunction

Date: 12-23-2017 Time: 10:56 PM – 12/24/17 7:46 AM

Duration: 8 Hours 50 Minutes

Provide detailed explanation of the circumstance of the startup, shutdown, malfunction:
The Toland Flare shutdown at 10:56 PM due to an SCE Utility Trip.

Provide description of corrective action:
The Flare was restarted and operating at temperature on 12/24/17 by 7:46 AM.

Describe the reasons the Startup, Shutdown, Malfunction Plan was not adequate:

Describe proposed revisions to the Startup, Shutdown, Malfunction Plan:

Were any excess emissions and/ or parameter monitoring exceedances believed to have occurred during the event:

☐ Yes ☑ No

ATTACHMENT 3

ANNUAL TITLE V COMPLIANCE CERTIFICATION

Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION
SIGNATURE COVER FORM

A copy of each Annual Compliance Certification shall be submitted to EPA, Region 9, at the following address:

Mr. Gerardo Rios, Chief
Permits Office (AIR-3)
Office of Air Division
EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Confidentiality

All information in a Part 70 permit compliance certification is public information. The Part 70 permit is also public information.

Certification by Responsible Official

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this compliance certification are true, accurate, and complete.

Signature and Title of Responsible Official:	Date: 2/14/18
Title: DIRECTOR OF OPERATIONS	

Time Period Covered by Compliance Certification

01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION DEVIATION SUMMARY FORM

Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time
40 CFR 60.755(a)(3) and (5)	LFG Collection Wells	Begin: 01/01/17 End: 02/28/17 When Discovered: Date & Time 03/01/17
D. Parameters monitored:	E. Limit:	F. Actual:
Monthly monitoring of LFG collection wells require initiation of corrective action within 5 days and re-monitoring within 15 days for wells with exceedances	< 5% oxygen <131 degrees Fahrenheit Negative pressure on wellhead required	Initiation of corrective action within 5 days and re-monitoring within 15 days was not conducted for exceedances in all cases
G. Probable Cause of Deviation:	H. Corrective actions taken:	
VRSD did not recognize that exceedances of the pressure, oxygen, and temperature limits required 5-day and 15-day corrective action.	VRSD personnel have been instructed on the proper monitoring, reporting, and recordkeeping requirements under this provision.	

Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time
40 CFR 60.755(a)(5)	LFG Collection Wells 57D, 67D, 46S, 78D, 18S, 19S, 22S, 40D, 40S, 48D, 36S, and 43D	Begin: 07/1/17 End: 12/31/17 When Discovered: Date & Time 02/01/18
D. Parameters monitored:	E. Limit:	F. Actual:
Monthly monitoring of LFG collection wells require re-monitoring within 15 days for wells with exceedances	< 5% oxygen	Re-monitoring within 15 days was not conducted for exceedances for the twelve (12) well events.
G. Probable Cause of Deviation:	H. Corrective actions taken:	
VRSD did not recognize that 15-day re-monitoring was no performed for the twelve (12) wells.	VRSD personnel have been instructed on the proper monitoring, reporting, and recordkeeping requirements under this provision. Nine (9) wells were subsequently corrected with the 120-day timeframe. Two (2) wells were abandoned within the 120-day timeframe, and one (1) well is pending corrective action within 120 days.	

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Control District

ANNUAL COMPLIANCE CERTIFICATION DEVIATION SUMMARY FORM

Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time
40 CFR 60.755(a)(5)	LFG Collection Wells 308L and 28S	Begin: 07/01/17 End: 12/31/17 When Discovered: Date & Time 02/01/18
D. Parameters monitored: Monthly monitoring of LFG collection wells require compliance within 120 days for wells with temperature exceedances that could not be corrected within 15 days.	E. Limit: Corrective action and compliance within 120 days of initial exceedance.	F. Actual: Compliance of two (2) wells with exceedances that could not be corrected for temperature within 15 days was not met within 120 days.
G. Probable Cause of Deviation: VRSD did not recognize that the 120-day period had ended for the two wells.	H. Corrective actions taken: VRSD personnel have been instructed on the proper monitoring, reporting, and recordkeeping requirements under this provision. Well 308L was corrected within 162 days and well 28S was corrected within 134 days of the initial exceedance.	

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time
17 CCR 95464(b)(1)(A)	Open Ended Line on Micro-Probe at Well 47S (Positive Pressure Monitoring)	Begin: 03/30/17 End: 04/13/17 When Discovered: Date & Time 03/30/17 during APCD inspection
D. Parameters monitored: Positive Pressure Leak Testing	E. Limit: <500 ppmv as methane	F. Actual: 800 ppmv as methane
G. Probable Cause of Deviation: During inspection on 3/30/17, the inspector found an exceedance of 800 ppmv as methane from an open-ended line at Well 47S. NOV No. 23681 was issued.	H. Corrective actions taken: The leak was repaired on 3/30/17 (repaired micro-probe) and re-monitoring was performed by the inspector on 4/13/17, which resulted in emissions below 500 ppmv, as methane.	

12/7/2018 ppmv added

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ANNUAL COMPLIANCE CERTIFICATION DEVIATION SUMMARY FORM

Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time
40 CFR 60.755(a)(5)	LFG Collection Wells 308L and 28S	Begin: 07/01/17 End: 12/31/17 When Discovered: Date & Time 02/01/18
D. Parameters monitored: Monthly monitoring of LFG collection wells require compliance within 120 days for wells with temperature exceedances that could not be corrected within 15 days.	E. Limit: Corrective action and compliance within 120 days of initial exceedance.	F. Actual: Compliance of two (2) wells with exceedances that could not be corrected for temperature within 15 days was not met within 120 days.
G. Probable Cause of Deviation: VRSD did not recognize that the 120-day period had ended for the two wells.	H. Corrective actions taken: VRSD personnel have been instructed on the proper monitoring, reporting, and recordkeeping requirements under this provision. Well 308L was corrected within 162 days and well 28S was corrected within 134 days of the initial exceedance.	

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time Begin: End: When Discovered: Date & Time
D. Parameters monitored:	E. Limit:	F. Actual:
G. Probable Cause of Deviation:	H. Corrective actions taken:	

Ventura County
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ANNUAL COMPLIANCE CERTIFICATION DEVIATION SUMMARY FORM

Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time
17 CCR 95464(b)(1)(B)	Well Boot of Well 67D and Cap of Gas Header (Positive Pressure Monitoring)	Begin: 03/30/17 End: 04/13/17 When Discovered: Date & Time 03/30/17 during APCD inspection
D. Parameters monitored: Positive Pressure Leak Testing	E. Limit: <500 ppmv as methane	F. Actual: 1,200 ppmv as methane and 3,000 ppmv, as methane
G. Probable Cause of Deviation: During inspection on 3/30/17, the inspector found an exceedance of 1,200 ppmv as methane at a well boot at Well 67D as well as an exceedance of 3,000 ppmv as methane at a cap on the gas header. NOV No. 23682 was issued.	H. Corrective actions taken: The leaks were repaired on 4/7/17 (secured well boot and repaired cap) and re-monitoring was performed by the inspector on 4/13/17, which resulted in emissions below 500 ppmv, as methane for both locations.	

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time
17 CCR 95464(a)(1) and 40 CFR 60.753(d) and 60.755(c)(4)(iv)	Surface near Well 27S	Begin: 03/30/17 End: 04/13/17 When Discovered: Date & Time 03/30/17 during APCD inspection
D. Parameters monitored: Instantaneous Surface Emissions Monitoring	E. Limit: <500 ppmv as methane	F. Actual: 1,200 ppmv as methane
G. Probable Cause of Deviation: During inspection on 3/30/17, the inspector found an exceedance of 1,200 ppmv as methane at the surface near Well 27S. NOV No. 23683 was issued. Given the circumstances, VRSD did not fully realize the re-monitoring requirements under NSPS (40 CFR §60.755(c)(4)).	H. Corrective actions taken: The surface was repaired on 4/7/17 (added cover material and compacted) and re-monitoring was performed by the inspector on 4/13/17, which resulted in emissions below 500 ppmv, as methane.	

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ANNUAL COMPLIANCE CERTIFICATION
PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

A. Attachment # or Permit Condition #: 70N3	D. Frequency of monitoring: Annually
B. Description: Rule 70	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: Maintain records of maintenance and vapor recovery system tests (Static and Dynamic).	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: 74.17.1N5-07340	D. Frequency of monitoring: Continuous, quarterly and bi-annually
B. Description: 40 CFR Part 60 Subpart WWW	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable See Attached Source Test Summary.
C. Method of monitoring: • Monitor flare gas flow rate and temperature. • Monitor wells (temperature, pressure, nitrogen, oxygen) • Monitor methane concentration at surface of landfill • Source test flare every 2 years (NMOC, NOx and CO)	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): I H. *Excursions, exceedances, or other non-compliance? (Y or N): Y *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: 40CFR63AAAA	D. Frequency of monitoring: Recordkeeping as needed.
B. Description: 40CFR Part 63, Subpart AAAA	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: Develop and implement a Startup, Shutdown, Malfunction Plan (SSMP).	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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ANNUAL COMPLIANCE CERTIFICATION
PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

A. Attachment # or Permit Condition #: P07340PC1	D. Frequency of monitoring: Monthly
B. Description: Condition No. 1 – Rule 26 General Recordkeeping	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: Monthly records of throughput and consumption.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: P07340PC1	D. Frequency of monitoring: Annually
B. Description: Condition No. 2 - Rule 29 Solvent Use	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: Maintain solvent use exemption records.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: P07340PC2	D. Frequency of monitoring: Continuous
B. Description: Condition No. 1 – Rule 26 Annual Flare Combustion Limit The annual amount of landfill gas combusted in the destruction devices shall not exceed 450,000 MMBtU per year.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: Landfill gas flow is recorded by a totalizer.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

A. Attachment # or Permit Condition #: P07340PC2	D. Frequency of monitoring:
B. Description: Condition No. 2 – Rule 26 Flare BACT Limits	Continuous, bi-annually and quadrennially
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable: See Attached Source Test Summary
C. Method of monitoring: The flare is equipped with a continuous temperature recording device and landfill gas flow totalizer. Source testing every 2 years (ROC, NOx) using EPA test method 25 or 18, 7 and every 4 years (SOx) using modified SCAQMD method 307-94.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: P07340PC2	D. Frequency of monitoring:
B. Description: Condition No. 3 – Rule 54 Sulfur Compounds	Quadrennially
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: Source test flare every 4 years for sulfur compounds using EPA test method 6, 6A, 6C, 8, 15, 16A, 16B, or SCAQMD method 307-94, as appropriate.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: P07340PC2	D. Frequency of monitoring:
B. Description: Condition No. 4 – Rule 57.1 Particulate Matter Emissions from Fuel Burning Equipment	Not applicable.
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: Not required based on District EPA emission factor analysis.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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A. Attachment # or Permit Condition #: P07340PC2	D. Frequency of monitoring: Monthly
B. Description: Condition No. 5 – Rule 26 Flare Equipment Requirements	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: Monthly function checks of the flare equipment.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: P07340PC2	D. Frequency of monitoring: Not applicable.
B. Description: Condition No. 6 – Rule 26 Flare Condensate Knockout / Filter Vessel Requirements	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: The flare is operated with a condensate knockout / filter vessel.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: P07340PC2	D. Frequency of monitoring: Monthly
B. Description: Condition No. 7 – Rule 26 Condensate and Leachate Collection Vessel Emission Requirements	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: Monthly inspections of collection vessel.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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A. Attachment # or Permit Condition #: P07340PC2	D. Frequency of monitoring:
B. Description: Condition No. 8 – Rule 51 Flare Dimensions and Exhaust Velocity	Bi-annually
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: Source Testing of the flare stack exit velocity using APCD approved testing protocol.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: P07340PC2	D. Frequency of monitoring:
B. Description: Condition No. 9 & 10 – Rule 51 Toxics Testing and HRA Requirements	Every 1000 hours, but not less than 10 years and not more than every 4 years.
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: Source Testing of the flare for Toxics using APCD approved testing protocol.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: P07340PC4	D. Frequency of monitoring:
B. Description: Condition Nos. 1 - CARB Executive Order DG-027	Not applicable.
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: The 250kW micro-turbines comply with ARB Executive Order DG-027 and are CARB certified.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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A. Attachment # or Permit Condition #: P07340PC4	D. Frequency of monitoring:
B. Description: Condition Nos. 2, 3 and 5 – Rule 51 Nuisance, Rule 54 Sulfur Compounds & Rule 64 Sulfur Content of Fuels, 250kW Micro-Turbines	Daily, Monthly and Annually. E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable See Attached Source Test Summary
C. Method of monitoring: The treated landfill gas is monitored prior to combustion in the 250kW Micro-turbines. Daily hydrogen sulfide is measured using colorimetric method. Monthly and Annually total sulfur content is measured using SCAQMD Method 307. Maintain these records.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: P07340PC4	D. Frequency of monitoring:
B. Description: Condition No. 4 – Rule 40 CFR Part 60, Subpart WWW, 250kW Micro-Turbines	Not applicable. E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: Maintain documentation of EPA compliance determination that 250kW Micro-turbines are subject to Section 60.752(b)(2)(iii)(C).	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: P07340PC4	D. Frequency of monitoring:
B. Description: Condition No. 6 – Rule 74.17.1 Micro-Turbine Metering Requirement	Daily, Monthly, Semi-Annually E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: Electrical power generated, landfill gas flow rate, and heating value	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

A. Attachment # or Permit Condition #: 50	D. Frequency of monitoring:
B. Description: Rule 50 - Opacity	Annual formal survey
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable See Attachment D
C. Method of monitoring: Routine surveillance and visual inspections of the control devices emission. Annual formal survey of the control devices emissions.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: 54.B.1	D. Frequency of monitoring:
B. Description: Rule 54.B.1 Sulfur Compounds APCD memos Rule 54, Sulfur Compounds 12/9/97 and SOx Rule Comparison for Combustion of Gaseous Fuel 12/2/97.	Not applicable.
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: Compliance with Rule 64 ensures compliance with this rule based on District analysis.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: 54.B.2	D. Frequency of monitoring:
B. Description: Rule 54.B.2 Sulfur Dioxide According to APCD memo from Terri Thomas, 5/23/96, subject Rule 54.B.2 compliance is an emission rate of 0.46 lb/hr would produce a 1 hour maximum concentration of 0.11 ppmv and a 24 hour maximum concentration of 0.04 ppmv, 100 meters from stack.	Bi-annually
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: Exhaust analysis and compliance demonstration. Source test exhaust value of Sulfur Dioxide of ~~0.45~~ lb/hr. on 10/26/18 E 0.13 lb/hr oxides of Sulfur as SO_2	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

A. Attachment # or Permit Condition #: 57.1	D. Frequency of monitoring:
B. Description: Rule 57.1 Particulate Matter Emissions from Fuel Burning Equipment	Not applicable.
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: Compliance based on District analysis of EPA emission factor dated 12/3/1997.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: 64.B.1	D. Frequency of monitoring:
B. Description: Rule 64.B.1	Annually
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: Annual fuel gas analysis of hydrogen sulfide.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: 64.B.2	D. Frequency of monitoring:
B. Description: Rule 64.B.2 Fuel Supplier's Certification	Annually
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: Fuel supplier's certification is supplied by the fuel manufacturer.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

A. Attachment # or Permit Condition #: 74.6	D. Frequency of monitoring:
B. Description: Rule 74.6 Surface Cleaning and Degreasing	Annually
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: Maintain records of current solvent information.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: 74.11.1	D. Frequency of monitoring:
B. Description: Rule 74.11.1 Large Water Heaters and Small Boilers	Not applicable.
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: There are no large water heaters or small boilers at this location that fall under this rule.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: 74.22	D. Frequency of monitoring:
B. Description: Rule 74.22 Natural Gas-Fired Fan-Type Furnaces	Not applicable
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: There are no natural gas-fired fan-type furnaces at this location that fall under this rule.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

A. Attachment # or Permit Condition #: 74.1	D. Frequency of monitoring:
B. Description: Rule 74.1 Abrasive Blasting	As needed.
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: No abrasive blasting was conducted in 2017.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: 74.2	D. Frequency of monitoring:
B. Description: Rule 74.2 Architectural Coatings	Annually
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: Maintain VOC records of coatings used. Only coatings that are in compliance with Rule 74.2 are used.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: 74.4.D	D. Frequency of monitoring:
B. Description: Rule 74.4.D Cut Back Asphalt	As needed.
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: No road oils were applied in 2017.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

A. Attachment # or Permit Condition #: 74.28	D. Frequency of monitoring: As needed.
B. Description: Rule 74.28 Asphalt Roofing Operations	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: No asphalt roofing operations were conducted in 2017.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: 74.29	D. Frequency of monitoring:
B. Description: Rule 74.29 Soil Decontamination Operations	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: No soil decontamination operations were conducted in 2017.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: 40CFR.61.M	D. Frequency of monitoring: As needed.
B. Description: 40 CFR, Part 61, Subpart M – National Emission Standard for Asbestos	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring: No asbestos demolition or renovation activities were conducted in 2017.	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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A. Attachment # or Permit Condition #: 17CCR	D. Frequency of monitoring: Varies
B. Description: 17 CCR Landfill Methane Rule (Sections 95460-95476)	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable Annual (or every 3 yrs) for CH_4 DE
C. Method of monitoring: • Monitoring of wells (pressure) • Instantaneous Surface Emissions and Integrated Surface Sampling • Positive Pressure Monitoring • Source Testing for Methane Destruction • Control Device temperature and flow rate	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): I H. *Excursions, exceedances, or other non-compliance? (Y or N): Y *If yes, attach Deviation Summary Form

New, added 12/5/18

NOV 23681, 2, 3

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SOURCE TEST SUMMARY FORM

Period Covered by Compliance Certification: 01 / 01 / 17 (MM/DD/YY) to 12 / 31 / 17 (MM/DD/YY)

A. Emission Unit Description: 85.8 MMBtu/Hr LFG Specialties, Inc. Model EF945112 Landfill Gas Flare			B. Pollutant: NMOC
C. Measured Emission Rate: 1.11 ppm - as C_6 @3%O_2 0.126 lb/hr as CH_4	D. Limited Emission Rate: 20 ppm 1.00 lb/hr	E. Specific Source Test or Monitoring Record Citation: Modified EPA Method 25	F. Test Date: October 26, 2017

A. Emission Unit Description: 85.8 MMBtu/Hr LFG Specialties, Inc. Model EF945112 Landfill Gas Flare			B. Pollutant: NO_x
C. Measured Emission Rate: 2.06 lb/hr 0.0497 lb/MMBtu	D. Limited Emission Rate: 5.15 lb/hr 0.06 lb/MMBtu	E. Specific Source Test or Monitoring Record Citation: EPA Method 7E	F. Test Date: October 26, 2017

A. Emission Unit Description: 85.8 MMBtu/Hr LFG Specialties, Inc. Model EF945112 Landfill Gas Flare			B. Pollutant: CO
C. Measured Emission Rate: 0.360 lbs/hr 0.00869 lb/MMBtu	D. Limited Emission Rate: 17.16 lbs/hr 0.2 lb/MMBtu	E. Specific Source Test or Monitoring Record Citation: EPA Method 10	F. Test Date: October 26, 2017

A. Emission Unit Description: 85.8 MMBtu/Hr LFG Specialties, Inc. Model EF945112 Landfill Gas Flare			B. Pollutant: SO_x
C. Measured Emission Rate: 0.13 lb/hr (as SO_2) 0.0030 lb/MMBtu (as SO_2)	D. Limited Emission Rate: 1.72 lb/hr (as SO_2) 0.02 lb/MMBtu (as SO_4)	E. Specific Source Test or Monitoring Record Citation: Modified SCAQMD 307-91	F. Test Date: October 26, 2017

A. Emission Unit Description: 85.8 MMBtu/Hr LFG Specialties, Inc. Model EF945112 Landfill Gas Flare			B. Pollutant: Destruction Eff.%
C. Measured Emission Rate: NMOC 97.5%, or 1.11 ppm * MDE: 99.91 %	D. Limited Emission Rate: NMOC 98%, or 20 ppm * MDE: 99 %	E. Specific Source Test or Monitoring Record Citation: Modified EPA Method 25	F. Test Date: October 26, 2017

* as C_6 @ 3% O_2

Table 2-1
Summary of Results
Ventura Regional Sanitation District
Toland Landfill Flare
October 26, 2017

Run		1		2		3		Average	Permit Limit
Oxygen, %		12.22		12.93		12.88		12.68	
Carbon Dioxide, %		7.13		6.94		7.13		7.07	
Flow Rate, dscfm		16,154		16,783		16,603		16,513	
Fuel Flow Rate, scfm		1,043		1,048		1,059		1,050	
Oxides of Nitrogen,									
ppm		18.4		16.8		17.2		17.4	
ppm @ 3% O_2		37.9		37.7		38.3		38.0	
lb/hr		2.13		2.02		2.04		2.06	5.15
lb/MMBtu		0.0497		0.0493		0.0502		0.0497	0.06
lb/day		51.1		48.5		49.0		49.5	
Carbon Monoxide,									
ppm	<	5.00	<	5.00	<	5.00	<	5.00	
ppm @ 3% O_2	<	10.32	<	11.22	<	11.16	<	10.90	
lb/hr	<	0.352	<	0.366	<	0.362	<	0.360	17.16
lb/MMBtu	<	0.00822	<	0.00894	<	0.00890	<	0.00869	0.20
lb/day	<	8.46	<	8.79	<	8.69	<	8.65	
Total Non-Methane/Non-Ethane Hydrocarbons,									
ppm		4.51		3.32		1.41		3.08	
ppm @ 3% O_2		9.31		7.45		3.15		6.64	
lb/hr		0.182		0.139		0.0584		0.126	1.00
lb/MMBtu		0.00424		0.00339		0.00143		0.00302	
lb/day		4.36		3.33		1.40		3.03	
ppm, as hexane, @ 3 % O_2		1.55		1.24		0.525		1.11	<20
Total Non-Methane/Non-Ethane Hydrocarbons (Inlet),									
ppm		1,780		1,820		2,840		2147	
lb/hr		4.63		4.75		7.50		5.63	
lb/day		111		114		180		135	
Total Non-Methane/Non-Ethane Hydrocarbon Destruction Efficiency,									
%		96.08		97.08		99.22		97.46	>98
Methane (Outlet)									
ppm, as Methane		86.4		2.29		1.90		30.2	
lb/hr, as Methane		3.48		0.0957		0.0786		1.22	
Methane (Inlet)									
ppm, as Methane		495000		499000		497000		497000	
lb/hr, as Methane		1287		1302		1312		1300	
Methane Destruction Efficiency,									
%		99.73		99.99		99.99		99.91	99
Total Reduced Sulfur Compounds,									
Hydrogen Sulfide, ppm		1.56		1.39		1.26		1.40	
Total Sulfur , ppm as H_2S		12.5		11.9		11.6		12.0	
Oxides of Sulfur,									
lbs/hr		0.13		0.12		0.12		0.13	1.72
lbs/MMBtu		0.0030		0.0030		0.0030		0.0030	0.02
Operating Parameters,									
Fuel Flow, scfh		62,598		62,862		63,558		63,006	
Heat Rate, MMbtu/hr		33.41		33.55		33.92		33.62	
Flare Temperature, F		1683		1676		1680		1680	

reviewed 06/20/18 F
10/29/18
EJ

Table 2-2
Summary of Results
Ventura Regional Sanitation District
Toland Landfill Flare
October 26, 2017
Run 1

Species	Outlet Concentration (ppb)	Emission Rate (lb/hr)
Acetone	120	1.78E-02
2-Propanol (IPA)	11.2	1.72E-03
Vinyl Acetate	3.39	7.45E-04
2-Butanone (MEK)	6.19	1.14E-03
Ethyl Acetate	1.67	3.76E-04
Benezene	2.36	4.71E-04
Toluene	1.69	3.98E-04
Ethylbenzene	3.25	8.81E-04
Styrene	1.56	4.15E-04

Table 2-3
Summary of Results
Ventura Regional Sanitation District
Toland Landfill Flare
October 26, 2017
Run 2

Species	Outlet Concentration (ppb)	Emission Rate (lb/hr)
Acetone	48.4	7.45E-03
2-Propanol (IPA)	5.56	8.87E-04
2-Butanone (MEK)	4.90	9.36E-04
Benezene	4.25	8.81E-04
Toluene	5.50	1.34E-03
Ethylbenzene	7.36	2.07E-03

Table 2-4
Summary of Results
Ventura Regional Sanitation District
Toland Landfill Flare
October 26, 2017
Run 3

Species	Outlet Concentration (ppb)	Emission Rate (lb/hr)
Acetone	203	3.09E-02
2-Propanol (IPA)	14.5	2.29E-03
2-Butanone (MEK)	3.40	6.43E-04

Letter of Conformance

March 21, 2018

This is to certify that the CARB Ultra Low sulfur dyed Diesel Fuel sold and delivered to Ventura Regional Sanitation District

Was in compliance with South Coast Air Quality Management District requirements for Ventura and Santa Barbara Counties. 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

3815 E. VINEYARD AVE, OXNARD, CA 93030 * MAILING ADDRESS: P.O. BOX 50540, OXNARD, CA 93031-0540

* Added 12/7/2018

Atmospheric Analysis & Consulting, Inc.

CLIENT	: Ventura Regional Sanitation District
PROJECT NAME	: Toland Road Landfill - Gas
PROJECT NO.	: 400300
AAC PROJECT NO.	: 170732
REPORT DATE	: 6/7/2017

On June 6, 2017, Atmospheric Analysis & Consulting, Inc. received one (1) Tedlar Bag for TRS analysis by SCAQMD 307.91. Upon receipt, the sample was assigned a unique Laboratory ID number as follows:

Client ID	Lab No.
24" Header LFG	170732-99235

All of the analyses mentioned above were performed in accordance with AAC's ISO/IEC 17025:2005 and NELAP approved Quality Assurance Plan. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. No problems were encountered during receiving, preparation, and/or analysis of this sample. The Laboratory Director or his/her designee, as verified by the following signature, has authorized release of the data contained in this hardcopy report.

If you have any questions or require further explanation of data results, please contact the undersigned.

Marcus Hueppe
Laboratory Director

This report consists of 4 pages.

added 1/08/19

1534 Eastman Ave., Ste. A • Ventura, • CA 93003 www.aaclab.com • (805) 650-1642 • FAX (805) 650-1644

Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT	**Ventura Regional Sanitation District**	**SAMPLING DATE**	**6/6/2017**
PROJECT NO.	**170732**	**ANALYSIS DATE**	**6/6/2017**
MATRIX	**AIR**		
UNITS	**ppmV**		

Total Reduced Sulfur Compounds Analysis by SCAQMD 307.91

Client ID	24" Header LFG
AAC ID	170732-99235
Analyte	Result
Hydrogen Sulfide	**0.523**
Carbonyl Sulfide	**0.238**
Sulfur Dioxide	< 0.050
Methyl Mercaptan	**0.297**
Ethyl Mercaptan	< 0.050
Dimethyl Sulfide	**16.9**
Carbon Disulfide	**0.092**
Isopropyl Mercaptan	**0.113**
tert-Butyl Mercaptan	< 0.050
n-Propyl Mercaptan	< 0.050
Methylethylsulfide	**0.098**
sec-Butyl Mercaptan	< 0.050
Thiophene	**0.389**
iso-Butyl Mercaptan	**0.245**
Diethyl Sulfide	< 0.050
n-Butyl Mercaptan	**0.054**
Dimethyl Disulfide	**1.14**
2-Methylthiophene	**0.317**
3-Methylthiophene	**0.147**
Tetrahydrothiophene	**0.076**
Bromothiophene	**0.157**
Thiophenol	**0.213**
Diethyl Disulfide	< 0.050
Total Unidentified Sulfur	**5.17**
Total Reduced Sulfurs	**25.9**

All unidentified compound's concentrations expressed in terms of H_2S (TRS does not include COS and SO_2)
Sample Reporting Limit (SRL) is equal to Reporting Limit x Canister Dil. Fac. x Analysis Dil. Fac.

Marcus Hueppe
Laboratory Director

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Quality Control/Quality Assurance Report
SCAQMD 307.91

Date Analyzed: 6/6/2017
Analyst: ZB
Units: ppbV

Instrument ID: SCD#10
Calb. Date: 5/5/2017

Opening Calibration Verification Standard

508.25 ppbV H2S (SS1019)

H_2S	Resp. (area)	Result	% Rec *	% RPD ****
Initial	14991	509	100.1	0.1
Duplicate	14857	504	99.2	0.8
Triplicate	15081	512	100.7	0.7

549 ppbV MeSH (SS0988)

MeSH	Resp. (area)	Result	% Rec *	% RPD ****
Initial	14989	558	101.6	0.3
Duplicate	15162	564	102.8	0.9
Triplicate	14947	556	101.3	0.6

488.8 ppbV CS2 (SS0972)

CS_2	Resp. (area)	Result	% Rec *	% RPD ****
Initial	32683	483	98.8	0.2
Duplicate	32858	485	99.3	0.4
Triplicate	32663	482	98.7	0.2

Method Blank

Analyte	Result
H_2S	<PQL
MeSH	<PQL
CS_2	<PQL

Duplicate Analysis Sample ID 170724-99213

Analyte	Sample Result	Duplicate Result	Mean	% RPD ***
H_2S	19108.8	20040.8	19574.8	4.8
MeSH	289.5	293.2	291.4	1.2
CS_2	<PQL	<PQL	0.0	0.0

Matrix Spike & Duplicate Sample ID 170724-99213 x20

Analyte	Sample Conc.	Spike Added	MS Result	MSD Result	MS % Rec **	MSD % Rec **	% RPD ***
H_2S	978.7	254.1	1189.8	1196.0	96.5	97.0	0.5
MeSH	14.6	274.5	292.5	297.6	101.2	103.0	1.8
CS_2	<PQL	244.4	238.0	243.2	97.4	99.5	2.2

Closing Calibration Verification Standard

Analyte	Std. Conc.	Result	% Rec **
H_2S	508.3	522.7	102.8
MeSH	549.0	563.8	102.7
CS_2	488.8	496.4	101.6

** Must be 95-105%, ** Must be 90-110%, *** Must be < 10%, **** Must be < 5% RPD from Mean result.*

H2S: PQL = 10.0 ppbV, MDL = 1.51 ppbV
MeSH: PQL = 10.0 ppbV, MDL = 1.48 ppbV
CS2: PQL = 10.0 ppbV, MDL = 1.44 ppbV

Marcus Hueppe
Laboratory Director

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Chain of Custody / Analysis Request Form

Atmospheric Analysis & Consulting, Inc.
1534 Eastman Avenue, Suite A
Ventura, CA 93003
Phone (805) 650-1642 Fax (805) 650-1644
E-Mail: info@aaclab.com

AAC Project No. 170732 Page ____ of ____

Client Name	Project Name	Analysis	Sent Results to:
Ventura Regional Sanitation District	Toland Road Landfill - Gas		David Thomas
Project Mgr	**Project Number**		3500 Toland Road
Edward Pettit (805) 658-4678	400300		Santa Paula, CA 93060
Samplers Name (Print) DAVID THOMAS	**Samplers Signature** David F Thomas		(805) 658-4672

Sample Number	Date	Time	Type	Client Sample ID/Description	Type/No. Containers	SCAQMD 307-91						Comments:
1	6-6.17	09:30	Gas	24" Header LFG 99235	T / 1	X						H_2S = 1.0

Flare: 1,310 Vilter: -0- (-0- MTs Runnng) Blower Skid Flow: 1,310 scfm

Relinquished By (Signature)	(Print Name)	Date	Time
David F Thomas	DAVID THOMAS	6-6-17	10:13
Received By (Signature)	**(Print Name)**	**Date**	**Time**
	WILL SCHNEIDER	6/6/17	1013

ATTACHMENT 4

SUPPLEMENTAL INFORMATION HISTORICALLY SUBMITTED WITH TITLE V REPORTS

Yellow Flag (over 500 ppm) Landfill Surface Emissions Monitoring
10 Day Exceedances and Monitoring Log

Site: TOLAND

Quarter / Year:	3RD / 2017	3RD / 2017	
Technician:	SHEA SILVA	ED STEVENS	
Instrument:	TVA 1000	TVA 1000	
Calibration Standard:	500 PPM	500 PPM	

Initial Monitoring Event					First Re-Monitoring Event – 10 Days				Second Re-Monitoring Event – 10 Days			
Grid Number	Flag Number	Location	Field Reading (ppm)	Date Monitored	Remedial Work	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	Remedial Work	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm
15	Y21	SURFACE	2806	9-5-17	WATER / DIRT	9-14-17	130					
17	Y23	SURFACE	923				160					
17	Y24	SURFACE	710				107					
17	Y25	SURFACE	1312				393					
20	Y26	SURFACE	1923				190					
20	Y28	WELL	9999				443					
20	Y27	SURFACE	703				280					
21	Y29	SURFACE	9999				41					
21	Y30	SURFACE	698				150					
21	Y31	SURFACE	1791				162					
23	Y32	WELL 73	767				141					
23	Y34	SURFACE	1461				473					
23	Y35	SURFACE	1558				447					
29	Y37	SURFACE	509				212					
29	Y38	WELL VGW 59	9999				165					
34	Y39	SURFACE	1231				357					
34	Y40	VGW 71	9999				480					
34	Y121	VGW 215	1432				209					
37	Y123	SURFACE	675				115					
37	Y124	VGW 105	9999				20.95					
36	Y125	WELL 313U	974				17.49					
30	Y81	WELL 20RS	9999		↓	↓	101					

Yellow Flag (over 500 ppm) Landfill Surface Emissions Monitoring
10 Day Exceedances and Monitoring Log

Site: TOLAND

Quarter / Year:	3RD / 2017				3RD / 2017								
Technician:	SHEA SLIVA				ED STEVENS								
Instrument:	TVA 1000				TVA 1000								
Calibration Standard:	500ppm				500ppm								
Initial Monitoring Event					First Re-Monitoring Event – 10 Days				Second Re-Monitoring Event – 10 Days				
Grid Number	Flag Number	Location	Field Reading (ppm)	Date Monitored	Remedial Work	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	Remedial Work	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	
30	Y82	GW 20S	9999	9-5-17	WATER/DIRT	9-14-17	47.32						
38	Y83	VGW58RS	9999				4.13						
38	Y84	SURFACE	5200				78.17						
24	Y52	VGW 62S	564				209						
24	Y53	GW 62D	930				147						
43	Y87	VGW 5S	9999				172						
27	Y54	SURFACE	4115				147						
25	Y61	WELL 31	6689				27.44						
32	Y62	UNMARKED	481				36.35						
35	Y92	SURFACE	9999				33.53						
16	Y41	VGW 12D	9999				166						
16	Y42	VGW 12S	9999				106						
18	Y44	SURFACE	1200				210						
19	Y45	GW 75S	1719				165						
19	Y46	GW 75D	896				187						
19	Y47	SURFACE	1338				54						
11	Y48	SURFACE	635				177						
22	Y49	VGW 25S	645				140						
22	Y50	VGW 25D	580				188						
23	Y51	VGW41S41D	930				169						

Blue Flag (200-499 ppm) Landfill Surface Emissions Monitoring
10 Day Exceedances and Monitoring Log

Site: TOLAND

Quarter / Year:	3RD /2017	3RD/2017	Page 1 of 1 Pages
Technician:	SHEA SLIVA	ED STEVENS	
Instrument:	TVA 1000	TVA 1000	
Calibration Standard:	500ppm	500 PPM	

Initial Monitoring Event					Re-Monitoring Event – 10 Days				Comments
Grid Number	Flag Number	Location	Field Reading (ppm)	Date Monitored	Remedial Work	Date Monitored	Field Reading <200 ppm	Field Reading >200 ppm	
17	B22	SURFACE	219	9-5-17	WATER ID, RT	9-14-17	37, 46		
29	B36	SURFACE	311	↓	↓	↓	143		
37	B122	SURFACE	351				34		
9	B43	SVR	264	↓	↓	↓	119		

RES

ENVIRONMENTAL INC.

TVA CALIBRATION LOG

Landfill: TOLAND RD

OPERATOR INITIALS	DATE	SN #	CH4 CALIBRATION GAS UNCORRECTED READINGS						CH4 CALIBRATION GAS CORRECTED READINGS					
			LOW		MED		HIGH		LOW		MED		HIGH	
			PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT
TL	9-14-17	1030945294	—	—	—	—	500	500	—	—	—	—	500	500
ES	9-14-17	1035455575	—	—	—	—	500	500	—	—	—	—	500	500

Yellow Flag (over 500 ppm) Landfill Surface Emissions Monitoring
30 Day Exceedances and Monitoring Log

Site: TOLAND

Quarter / Year:	3RD/2017	3RD/2017
Technician:	SHEA SLICK	ED STEVENS
Instrument:	TVA 1000	TVA 1000
Calibration Standard:	500 ppm	500PPM

Initial Monitoring Event					30 Day Re-Monitoring Event				First Re-Monitoring Event – 10 Days			
Grid Number	Flag Number	Location	Field Reading (ppm)	Date Monitored	Remedial Work	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	Remedial Work	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm
15	Y21	SURFACE	2806	9-5-17	WATER/DIRT	10-5-17	21.15					
17	Y23	SURFACE	923				199					
17	Y24	SURFACE	710				259					
17	Y25	SURFACE	1312				228					
20	Y26	SURFACE	1923				178					
20	Y28	WELL	9999				294					
20	Y27	SURFACE	703				166					
21	Y29	SURFACE	9999				223					
21	Y30	SURFACE	698				43.73					
21	Y31	SURFACE	1791				53.48					
23	Y32	WELL 73	767				172					
23	Y34	SURFACE	1461				195					
23	Y35	SURFACE	1558				303					
29	Y37	SURFACE	509				148					
29	Y38	VGW 59	9999				116					
34	Y39	SURFACE	1231				79.10					
34	Y40	VGW 71	9999				109					
34	Y121	VGW 215	1432				421					
37	Y123	SURFACE	675				18.54					
37	Y124	VGW 105	9999				58.16					
36	Y125	WELL 313U	974				96.47					
30	Y81	WELL 20RS	9999				17.48					

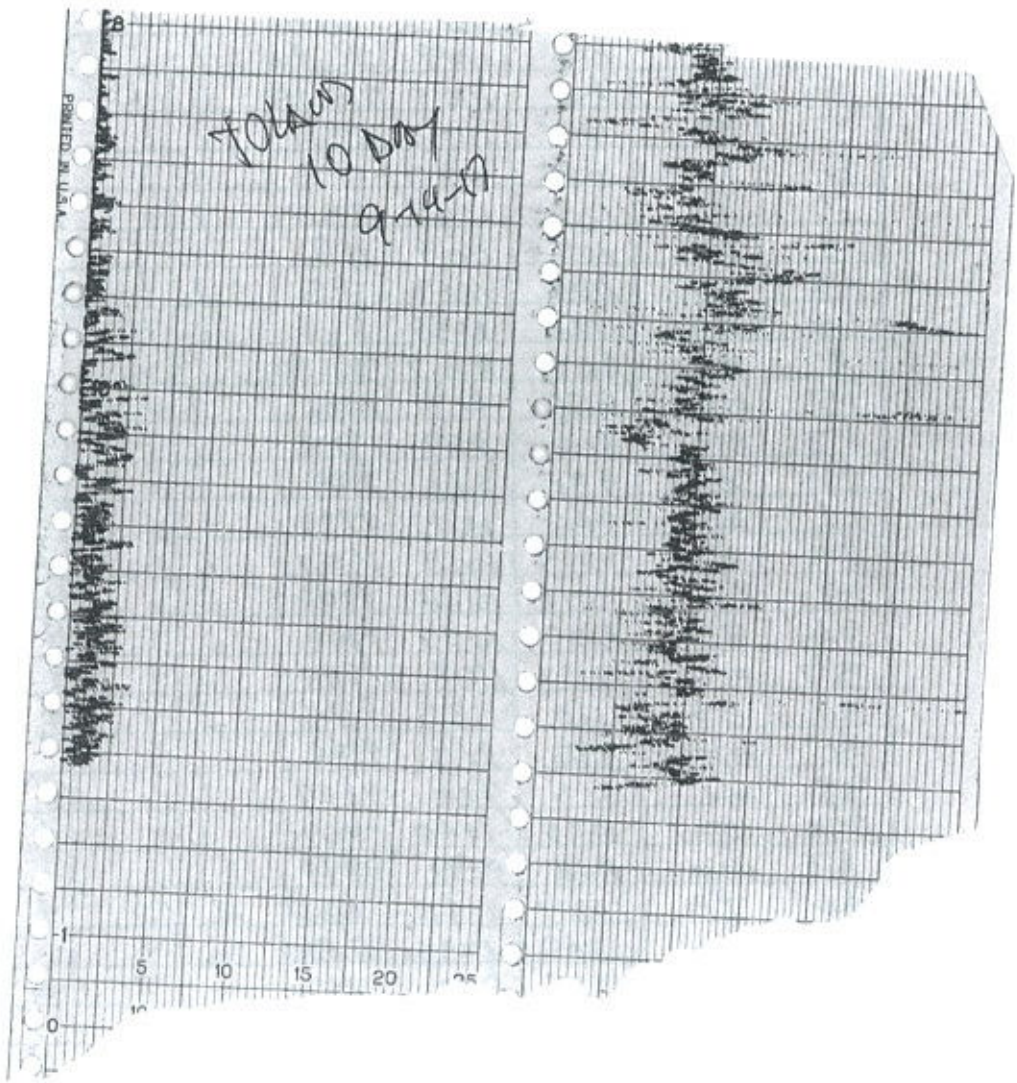
Yellow Flag (over 500 ppm) Landfill Surface Emissions Monitoring
30 Day Exceedances and Monitoring Log

Site: TOLAND

Quarter / Year:	3RD/2017	3RD/2017
Technician:	SHEA SILVA	ED STEVENS
Instrument:	TVA 1000	TVA 1000
Calibration Standard:	500 PPM	500 PPM

Initial Monitoring Event					30 Day Re-Monitoring Event				First Re-Monitoring Event – 10 Days			
Grid Number	Flag Number	Location	Field Reading (ppm)	Date Monitored	Remedial Work	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	Remedial Work	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm
30	Y82	GW 20S	9999	9-5-17	WATER/DIRT	10-5-17	16.82					
38	Y83	VGW 58RS	9999				53.66					
38	Y84	SURFACE	5200				39.16					
24	Y52	VGW 62S	564				134					
24	Y53	GW 62D	930				128					
43	Y87	VGW 5S	9999				330					
27	Y54	SURFACE	4115				276					
25	Y61	WELL 31	6689				382					
32	Y62	UNMARKED	481				86.02					
35	Y92	SURFACE	9999				154					
16	Y41	VGW 12D	9999				170					
16	Y42	VGW 12S	9999				82.40					
18	Y44	SURFACE	1200				279					
19	Y45	GW 75S	1719				153					
19	Y46	GW 75D	896				124					
19	Y47	SURFACE	1338				179					
11	Y48	SURFACE	635				41.38					
22	Y49	VGW 25S	645				37.80					
22	Y50	VGW 25D	580				19.90					
23	Y51	VGW A1S A1D	930		↓	↓	116					

WIND SPEED & DIRECTION CHART ROLL



TOLAND LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: S SLIVA 21, M BULLARD 14, E STEVENS 23, J MORRIS 28, M HEREDIA 24

Date: 9-5-17 Instrument Used: TVA 1000

Temperature: 84° Upwind BG: 2 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION	
1	SS	903	918	38.55	1	2	4	
2	SS	918	933	37.00	1	2	4	
3	SS	934	949	26.99	1	2	4	
4	SS	950	1005	24.15	1	2	4	
5	SS	1005	1020	62.11	2	3	4	
6	SS	1022	1037	130	2	3	4	
7	SS	1037	1052	138	2	4	4	
12	SS	1053	1108	119	2	4	4	
13	SS	1108	1123	115	2	4	4	
14	SS	1124	1139	131	2	4	4	
8	ES	842	857	36.50	1	2	5	
15	ES	858	913	2806	1	2	4	Y21
17	ES	914	929	1312	1	2	4	B22 Y23 Y24 Y25
20	ES	930	945	9999	1	2	4	Y26 Y27 Y28
21	ES	946	1001	9999	1	2	4	Y29 Y30 Y31
23	ES	1003	1018	1558	1	2	4	Y32 Y33 Y34 Y51
29	ES	1019	1034	9999	2	3	4	B36 Y37 Y38
34	ES	1037	1052	9999	2	4	4	Y39 Y40 Y121
37	ES	1053	1108	9999	2	4	4	B122 Y123 Y124
36	ES	1110	1125	974	2	4	4	Y125
30	MH	858	913	9999	1	2	4	Y81 Y82
38	MH	913	928	9999	1	2	4	Y83 Y84
48	JM	1025	1040	7.09	2	3	4	
43	MH	944	959	9999	1	2	4	Y87
44	JM	1007	1022	12.66	2	3	4	
55	JM	1040	1055	19.88	2	4	4	
33	JM	936	955	7.53	1	2	4	
62	JM	1119	1130	88.93	2	4	4	
35	MH	1054	1109	9999	2	4	4	Y92
16	MB	846	901	9999	1	2	4	Y41 Y42

Attach Calibration Sheet
Attach site map showing grid ID

TOLAND LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: S SILVA 21, M BULLARD 14, E STEVENS 23, J MORRIS 28, M HEREDIA 24

Date: 9-5-17 Instrument Used: TVA 1000

Temperature: 84° Upwind BG: 2 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION	
9	MB	902	917	264	1	2	4	B43
10	MB	918	933	68.18	1	2	4	
18	MB	934	949	1200	1	2	4	Y44
19	MB	950	1005	1719	1	2	4	Y45 Y46 Y47
11	MB	1006	1022	635	2	3	4	Y48
22	MB	1022	1037	645	2	3	4	Y49 Y50
24	MB	1043	1058	9.30	2	4	4	Y52 Y53
27	MB	1059	1114	4115	2	4	4	Y54
31	MB	1115	1130	18.65	2	4	4	
25	JM	847	902	6689	1	2	8	Y61
26	JM	904	919	37.40	1	2	4	
28	JM	920	935	7.61	1	2	4	
32	JM	952	1007	418	1	2	4	Y62

Attach Calibration Sheet
Attach site map showing grid ID

RES

ENVIRONMENTAL INC.

TVA CALIBRATION LOG

Landfill: TOLAND

OPERATOR INITIALS	DATE	SN #	CH4 CALIBRATION GAS UNCORRECTED READINGS						CH4 CALIBRATION GAS CORRECTED READINGS					
			LOW		MED		HIGH		LOW		MED		HIGH	
			PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT
SS	9-5-17	1034345580					500	500					500	500
ES	↓	7705062					500	500					500	500
MH		1027441841					500	500					500	500
MB		1029845167					500	500					500	500
JM		1031445323					500	500					500	500

9-5-17 TOLAND LANDFILL ISM

LOGGED DATA
VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
05 SEP 17	09:18:04	16	0.00 PPM OK	2004 PPM OK
05 SEP 17	09:34:17	9	0.00 PPM OK	296 PPM OK
05 SEP 17	09:50:14	10	0.00 PPM OK	68.18 PPM OK
05 SEP 17	10:06:18	18	0.00 PPM OK	1719 PPM OK
05 SEP 17	10:22:10	19	0.00 PPM OK	1338 PPM OK
05 SEP 17	10:38:15	11	0.00 PPM OK	635 PPM OK
05 SEP 17	11:14:43	24	0.00 PPM OK	930 PPM OK
05 SEP 17	11:30:46	27	0.00 PPM OK	4115 PPM OK
05 SEP 17	11:46:53	31	0.00 PPM OK	18.65 PPM OK

END
LOGGED DATA
VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
05 SEP 17	09:33:54	GRD1	0.00 PPM OK	38.55 PPM OK
05 SEP 17	09:49:49	GRD2	0.00 PPM OK	37.00 PPM OK
05 SEP 17	10:05:28	GRD3	0.00 PPM OK	26.99 PPM OK
05 SEP 17	10:20:58	GRD4	0.00 PPM OK	24.15 PPM OK
05 SEP 17	10:36:19	GRD5	0.00 PPM OK	62.11 PPM OK
05 SEP 17	10:51:58	GRD6	0.00 PPM OK	130 PPM OK
05 SEP 17	11:07:28	GRD7	0.00 PPM OK	138 PPM OK
05 SEP 17	11:23:15	GRD12	0.00 PPM OK	119 PPM OK
05 SEP 17	11:39:02	GRD13	0.00 PPM OK	115 PPM OK
05 SEP 17	11:55:31	GRD14	0.00 PPM OK	111 PPM OK

END
LOGGED DATA
VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
05 SEP 17	09:15:49	8	0.00 PPM OK	36.50 PPM OK
05 SEP 17	09:31:24	15	0.00 PPM OK	3042 PPM OK
05 SEP 17	09:47:03	17	0.00 PPM OK	1321 PPM OK
05 SEP 17	10:03:12	20	0.00 PPM OK	11380 PPM OK
05 SEP 17	10:36:05	23	0.00 PPM OK	1992 PPM OK

05 SEP 17	10:52:27 29	0.00 PPM OK	***** PPM OK
05 SEP 17	11:10:25 34	0.00 PPM OK	33740 PPM OK
05 SEP 17	11:26:55 37	0.00 PPM OK	14708 PPM OK
05 SEP 17	11:43:36 36	0.00 PPM OK	2288 PPM OK

END
LOGGED DATA
VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
05 SEP 17	09:22:19	30	0.00 PPM OK	11793 PPM OK
05 SEP 17	09:38:05	38	0.00 PPM OK	22000 PPM OK
05 SEP 17	09:53:28	42	0.00 PPM OK	***** PPM OK
05 SEP 17	10:08:57	43	0.00 PPM OK	***** PPM OVERFLOW
05 SEP 17	10:33:09	41	0.00 PPM OK	***** PPM OVERFLOW
05 SEP 17	10:48:43	40	0.00 PPM OK	1937 PPM OK
05 SEP 17	11:04:14	39	0.00 PPM OK	189 PPM OK
05 SEP 17	11:19:52	35	0.00 PPM OK	20686 PPM OK

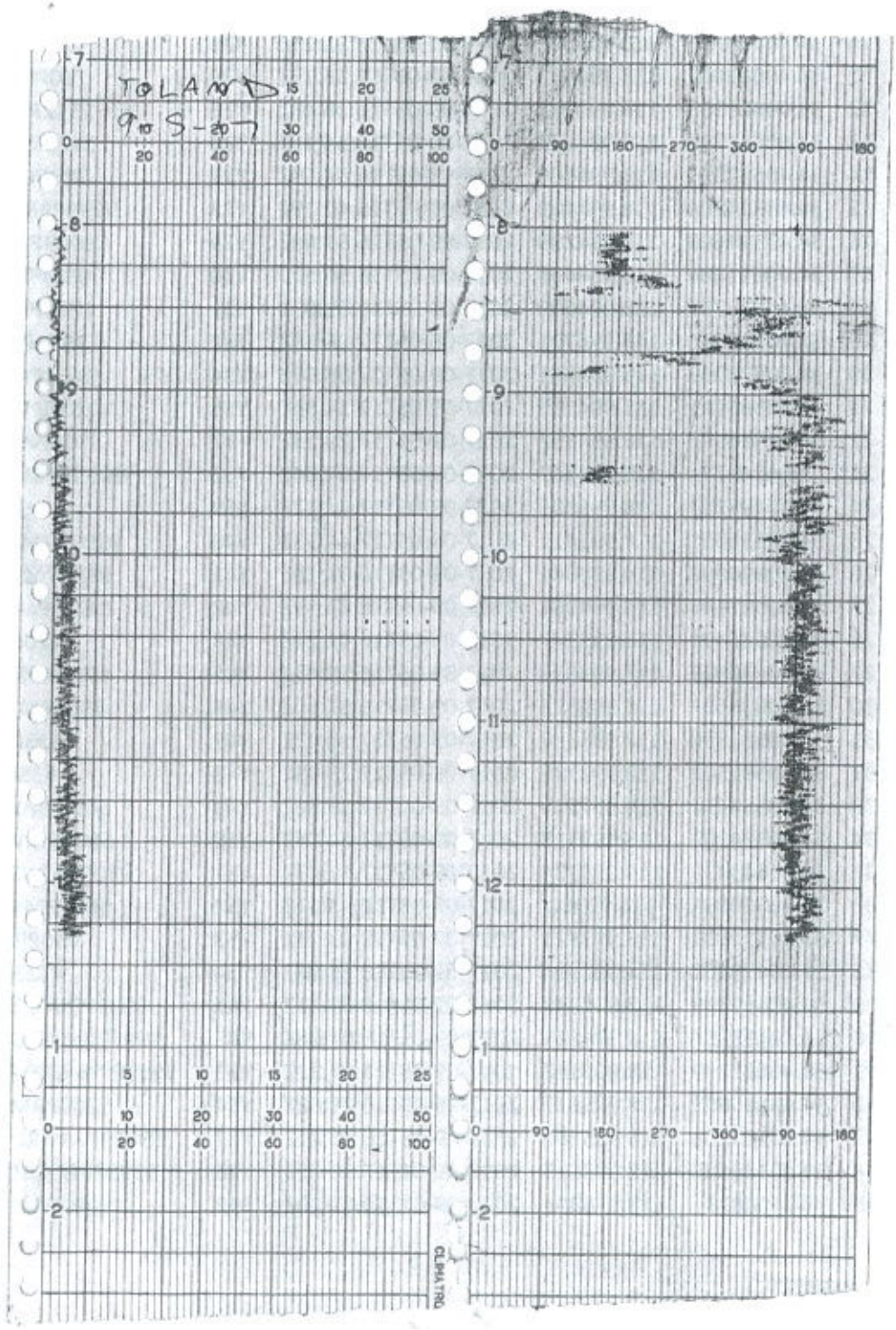
END
LOGGED DATA
VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
05 SEP 17	09:20:54	GRD25	0.93 PPM OK	6179 PPM OK
05 SEP 17	09:37:22	GRD26	0.93 PPM OK	37.40 PPM OK
05 SEP 17	09:53:15	GRD28	0.93 PPM OK	7.61 PPM OK
05 SEP 17	10:09:11	GRD33	0.93 PPM OK	7.53 PPM OK
05 SEP 17	10:25:03	GRD32	0.93 PPM OK	418 PPM OK
05 SEP 17	10:41:50	GRD44	0.93 PPM OK	12.66 PPM OK
05 SEP 17	10:58:09	GRD48	0.93 PPM OK	7.09 PPM OK
05 SEP 17	11:13:42	GRD55	0.93 PPM OK	19.88 PPM OK
05 SEP 17	11:29:55	GRD54	0.93 PPM OK	49.13 PPM OK

END

WIND SPEED & DIRECTION CHART ROLL



9-5-17 TOLAND LANDFILL ISM

ID	lat	lon	time	name	cmt
1	34.40510902	-118.995913	2017-09-05T18:01:30Z	B122	351PPM--SURFACE
2	34.40721598	-118.99464	2017-09-05T16:17:37Z	B22	219PPM--SURFACE
3	34.40535796	-118.994837	2017-09-05T17:24:19Z	B36	311PPM--SURFACE
4	34.40682798	-118.993321	2017-09-05T16:21:29Z	B43	264PPMSUR
5	34.40513701	-118.995133	2017-09-05T17:51:42Z	Y121	1432PPM--WELL-VGW21S
6	34.40501698	-118.995958	2017-09-05T18:03:56Z	Y123	675PPM--SURFACE
7	34.404934	-118.996364	2017-09-05T18:08:08Z	Y124	9999PPM--WELL-VGW10S
8	34.40532804	-118.997076	2017-09-05T18:18:27Z	Y125	974PPM--WELL-313U
9	34.40736501	-118.994508	2017-09-05T16:11:50Z	Y21	2806PPM--SURFACE
10	34.40698799	-118.994683	2017-09-05T16:21:15Z	Y23	923PPM--SURFACE
11	34.40683602	-118.994661	2017-09-05T16:26:15Z	Y24	710PPM--SURFACE
12	34.40669303	-118.994771	2017-09-05T16:28:49Z	Y25	1312PPM--SURFACE
13	34.40651399	-118.994873	2017-09-05T16:34:15Z	Y26	1923PPM--SURFACE
14	34.40632297	-118.994609	2017-09-05T16:37:50Z	Y27	703PPM--SURFACE
15	34.40624904	-118.994409	2017-09-05T16:40:19Z	Y28	9999PPM--WELL-W2323
16	34.40594603	-118.994209	2017-09-05T16:51:09Z	Y29	9999PPM--SURFACE
17	34.40613404	-118.994468	2017-09-05T16:56:57Z	Y30	698PPM--SURFACE
18	34.40620797	-118.994609	2017-09-05T17:01:02Z	Y31	1791PPM--SURFACE
19	34.40593396	-118.994701	2017-09-05T17:06:13Z	Y32	767PPM--WELL-73
20	34.40578996	-118.994741	2017-09-05T17:08:53Z	Y34	1461PPM--SURFACE
21	34.40566901	-118.994705	2017-09-05T17:14:50Z	Y35	1558PPM--SURFACE
22	34.40516903	-118.994692	2017-09-05T17:29:18Z	Y37	509PPM--SURFACE
23	34.404977	-118.994747	2017-09-05T17:32:04Z	Y38	9999PPM--WELL -VGW59
24	34.40495202	-118.995005	2017-09-05T17:42:12Z	Y39	GRID-34
25	34.40516601	-118.995412	2017-09-05T17:44:53Z	Y40	9999PPM--WELL-VGW71
26	34.40690098	-118.994061	2017-09-05T16:01:15Z	Y41	999PPMWELLVGW12D
27	34.40692697	-118.994064	2017-09-05T16:03:39Z	Y42	2004PPMWELLVGW12S
28	34.40636496	-118.993247	2017-09-05T16:41:21Z	Y44	1200PPMSUR
29	34.40636999	-118.993823	2017-09-05T16:55:45Z	Y45	1719PPMWELLGW75S
30	34.40636597	-118.993825	2017-09-05T16:57:10Z	Y46	896PPMWELLGW75D
31	34.40581896	-118.993324	2017-09-05T17:10:47Z	Y47	1338PPMSUR
32	34.40581502	-118.992728	2017-09-05T17:25:45Z	Y48	635PPMSUR
33	34.40554404	-118.993219	2017-09-05T17:39:50Z	Y49	645PPMWELLVGW25S
34	34.40554102	-118.993218	2017-09-05T17:41:04Z	Y50	580PPMWELLVGW25D
35	34.40543499	-118.993734	2017-09-05T17:51:09Z	Y51	930PPMWELLVGW41S41D
36	34.40510801	-118.99382	2017-09-05T18:03:17Z	Y52	564PPMWELLVGW62S
37	34.40510902	-118.993821	2017-09-05T18:03:23Z	Y53	930PPM GW62D
38	34.40479402	-118.993994	2017-09-05T18:18:04Z	Y54	4115PPMSUR
39	34.40449999	-118.994832	2017-09-05T16:03:42Z	Y81	9999PPM GRD 30 WELL 20RS
40	34.40453997	-118.994867	2017-09-05T16:07:06Z	Y82	9999PPM GRD 30 WELL GW 20S
41	34.40467299	-118.995247	2017-09-05T16:17:27Z	Y83	9999PPM GRD 38 WELL VGW 58RS
42	34.40496803	-118.995617	2017-09-05T16:21:58Z	Y84	5200PPM GRD 38 SUR
43	34.40361201	-118.995265	2017-09-05T16:54:11Z	Y87	9999PPM GRD 43 WELL VGW 5S
44	34.40368602	-118.996015	2017-09-05T17:06:38Z	Y88	9999PPM GRD 47 WELL VGW 4
45	34.404833	-118.998394	2017-09-05T18:01:20Z	Y92	9999PPM GRD 35 SUR

46	34.40481498	-118.993106	2017-09-05T16:39:07Z	Y61	6689PPM WELL31
47	34.40347203	-118.994861	2017-09-05T17:17:11Z	Y62	418PPM

9-5-17 TOLAND LANDFILL ISM

LOGGED DATA
VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
05 SEP 17	09:18:04	16	0.00 PPM OK	2004 PPM OK
05 SEP 17	09:34:17	9	0.00 PPM OK	296 PPM OK
05 SEP 17	09:50:14	10	0.00 PPM OK	68.18 PPM OK
05 SEP 17	10:06:18	18	0.00 PPM OK	1719 PPM OK
05 SEP 17	10:22:10	19	0.00 PPM OK	1338 PPM OK
05 SEP 17	10:38:15	11	0.00 PPM OK	635 PPM OK
05 SEP 17	11:14:43	24	0.00 PPM OK	930 PPM OK
05 SEP 17	11:30:46	27	0.00 PPM OK	4115 PPM OK
05 SEP 17	11:46:53	31	0.00 PPM OK	18.65 PPM OK

END
LOGGED DATA
VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
05 SEP 17	09:33:54	GRD1	0.00 PPM OK	38.55 PPM OK
05 SEP 17	09:49:49	GRD2	0.00 PPM OK	37.00 PPM OK
05 SEP 17	10:05:28	GRD3	0.00 PPM OK	26.99 PPM OK
05 SEP 17	10:20:58	GRD4	0.00 PPM OK	24.15 PPM OK
05 SEP 17	10:36:19	GRD5	0.00 PPM OK	62.11 PPM OK
05 SEP 17	10:51:58	GRD6	0.00 PPM OK	130 PPM OK
05 SEP 17	11:07:28	GRD7	0.00 PPM OK	138 PPM OK
05 SEP 17	11:23:15	GRD12	0.00 PPM OK	119 PPM OK
05 SEP 17	11:39:02	GRD13	0.00 PPM OK	115 PPM OK
05 SEP 17	11:55:31	GRD14	0.00 PPM OK	111 PPM OK

END
LOGGED DATA
VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
05 SEP 17	09:15:49	8	0.00 PPM OK	36.50 PPM OK
05 SEP 17	09:31:24	15	0.00 PPM OK	3042 PPM OK
05 SEP 17	09:47:03	17	0.00 PPM OK	1321 PPM OK
05 SEP 17	10:03:12	20	0.00 PPM OK	11380 PPM OK
05 SEP 17	10:36:05	23	0.00 PPM OK	1992 PPM OK

05 SEP 17 10:52:27 29	0.00 PPM OK	***** PPM OK
05 SEP 17 11:10:25 34	0.00 PPM OK	33740 PPM OK
05 SEP 17 11:26:55 37	0.00 PPM OK	14708 PPM OK
05 SEP 17 11:43:36 36	0.00 PPM OK	2288 PPM OK

END
LOGGED DATA
VER= 1.00

VOC DATA

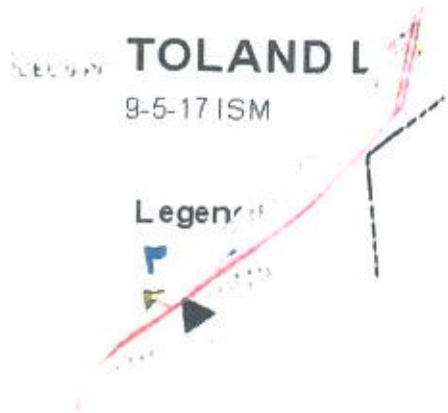
DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
05 SEP 17	09:22:19	30	0.00 PPM OK	11793 PPM OK
05 SEP 17	09:38:05	38	0.00 PPM OK	22000 PPM OK
05 SEP 17	10:08:57	43	0.00 PPM OK	***** PPM OVERFLOW
05 SEP 17	11:19:52	35	0.00 PPM OK	20686 PPM OK

END
LOGGED DATA
VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
05 SEP 17	09:20:54	GRD25	0.93 PPM OK	6179 PPM OK
05 SEP 17	09:37:22	GRD26	0.93 PPM OK	37.40 PPM OK
05 SEP 17	09:53:15	GRD28	0.93 PPM OK	7.61 PPM OK
05 SEP 17	10:09:11	GRD33	0.93 PPM OK	7.53 PPM OK
05 SEP 17	10:25:03	GRD32	0.93 PPM OK	418 PPM OK
05 SEP 17	10:41:50	GRD44	0.93 PPM OK	12.66 PPM OK
05 SEP 17	10:58:09	GRD48	0.93 PPM OK	7.09 PPM OK
05 SEP 17	11:13:42	GRD55	0.93 PPM OK	19.88 PPM OK
05 SEP 17	11:29:55	GRD54	0.93 PPM OK	49.13 PPM OK

END


TOLAND L
9-5-17 ISM
Legend


Y92


TOLAND LANDFILL
9-5-17 ISM
Legend
>199-499PPM
>500PPM
ACTIVE
Y92

Yellow Flag (over 500 ppm) Landfill Surface Emissions Monitoring
10 Day Exceedances and Monitoring Log

Site: TOLAND

Quarter / Year:	4TH / 2017	4th / 2017	
Technician:	SHEA SLIVA	DAN JOHNS	
Instrument:	TVA 1000	TVA 1000	
Calibration Standard:	500 PPM	500 PPM	

Initial Monitoring Event					First Re-Monitoring Event – 10 Days				Second Re-Monitoring Event – 10 Days			
Grid Number	Flag Number	Location	Field Reading (ppm)	Date Monitored	Remedial Work	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	Remedial Work	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm
15	Y61	SURFACE	822	12-28-17	WATER	1/4/18	230 PPM					
45	Y62	SURFACE	1130				217 PPM					
56	Y63	SURFACE	1874				165 PPM					
21	Y81	SURFACE	11934				408 PPM					
31	Y82	WELL VW605	7935				456 PPM					
53	Y83	SURFACE	1722				321 PPM					
11	Y21	SURFACE	984				245 PPM					
34	Y22	SURFACE	900				140 PPM					
34	Y23	WELL VCW71	1406				515 PPM					
38	Y24	VGW 58RS	1585				91 PPM					
36	Y25	VGW 8	800				65 PPM					
36	Y26	SURFACE	876				47 PPM					
35	Y27	1703A	1380				357 PPM					
21	Y41	SURFACE	2,200				291 PPM					
22	Y42	SURFACE	1000				364 PPM					
23	Y43	GW 405	1500				262 PPM					
24	Y44	SURFACE	860				325 PPM					

Blue Flag (200-499 ppm) Landfill Surface Emissions Monitoring
10 Day Exceedances and Monitoring Log

Site: TOLAND

Quarter / Year:	4TH / 2017
Technician:	SHEA SILVA
Instrument:	TVA 1000
Calibration Standard:	500 ppm

Initial Monitoring Event					Re-Monitoring Event – 10 Days				Comments
Grid Number	Flag Number	Location	Field Reading (ppm)	Date Monitored	Remedial Work	Date Monitored	Field Reading <200 ppm	Field Reading >200 ppm	
17	B41	SURFACE	455	12-28-17	WATER	1/4/18	120 PPM		
51	B61	SURFACE	260	↓	↓		117 PPM		

Yellow Flag (over 500 ppm) Landfill Surface Emissions Monitoring
30 Day Exceedances and Monitoring Log

Site: TOLAND

Quarter / Year:	4TH /2017	1ST /2018	Page 1 of 1 Pages
Technician:	SHEA SILVA	Michael Cahill	
Instrument:	TVA 1000	TVA 1000	
Calibration Standard:	500 ppm	500 PPM	

Initial Monitoring Event					30 Day Re-Monitoring Event				First Re-Monitoring Event – 10 Days			
Grid Number	Flag Number	Location	Field Reading (ppm)	Date Monitored	Remedial Work	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	Remedial Work	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm
15	Y61	SURFACE	822	12-28-17	Moisture Conditioned Soil	1-25-18	483					
45	Y62	SURFACE	1130				606					
56	Y63	SURFACE	1874				169					
21	Y81	SURFACE	11934				243					
31	Y82	VW 605	7935				193					
53	Y83	SURFACE	1722				46					
11	Y21	SURFACE	984				93					
34	Y22	SURFACE	900				315					
34	Y23	VCW 71	1406				402					
38	Y24	VCW 58RS	1585				38					
36	Y25	VCW B	800				88					
36	Y26	SURFACE	876				382					
35	Y27	1703A	1380				315					
21	Y41	SURFACE	2000				106					
22	Y42	SURFACE	1000				73					
23	Y43	GW 405	1500				68					
24	Y44	SURFACE	860				394					

RES

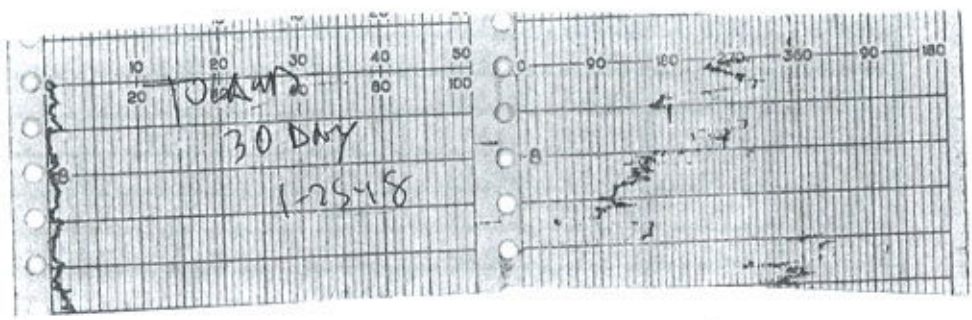
ENVIRONMENTAL INC.

TVA CALIBRATION LOG

Landfill: TOLAND

OPERATOR INITIALS	DATE	SN #	CH4 CALIBRATION GAS UNCORRECTED READINGS						CH4 CALIBRATION GAS CORRECTED READINGS					
			LOW		MED		HIGH		LOW		MED		HIGH	
			PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT
MO	1-25-18	05321/3800	—	—	—	—	500	500	—	—	—	—	500	500

WIND SPEED & DIRECTION CHART ROLL



TOLAND LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGH WADE 10 ARRICN JONES 11
PEDRO LORENZEN 26 JESSE MANNING 15
KEVIN RIVIKON 13

Date: 12-28-17 Instrument Used: TVA 1000

Temperature: 74 Upwind BG: 2 Downwind BG: 3

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION	
6	LW	0815	0830	17.72	2	3	12	
7	LW	0831	0846	16.41	1	2	15	
13	LW	0848	0903	77.67	1	2	15	
12	LW	0907	0922	88.77	1	2	8	
26	LW	0933	0948	23.00	1	2	13	
28	LW	0951	1006	20.57	1	2	13	
33	LW	1008	1023	39.07	2	3	14	
44	LW	1024	1039	21.36	2	3	14	
55	LW	1042	1055	140	2	3	14	
18	JM	0816	0831	12.74	2	3	12	
19	JM	0832	0847	11.82	1	2	15	
20	JM	0848	0903	153	1	2	15	
21	JM	0905	0920	11,934	1	2	8	SURFACE
31	JM	0926	0941	7935	1	2	13	WELL VW 605
43	JM	0949	1004	184	1	2	13	
52	JM	1006	1021	33.70	2	3	14	
53	JM	1024	1039	1722	2	3	14	SURFACE
57	JM	1041	1056	21.60	2	3	14	
58	JM	1058	1113	20.38	2	3	14	
1	PZ	0814	0829	19.87	2	3	12	
2	PZ	0830	0845	17.50	1	2	15	
8	PZ	0846	0901	19.77	1	2	15	
15	PZ	0912	0917	822	1	2	8	SURFACE
39	PZ	0944	0959	96.62	1	2	13	
40	PZ	1000	1015	145	1	2	13	
45	PZ	1016	1031	1,130	2	3	14	Surface
51	PZ	1032	1047	260	2	3	14	SURFACE
56	PZ	1048	1103	1,878	2	3	14	SURFACE
61	PZ	1104	1119	111	2	3	14	
62	PZ	1121	1136	131	2	3	14	

Attach Calibration Sheet
Attach site map showing grid ID

TOLAND LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGHWOOD, ARRIEN JONES, PEDRO ZARAGOZA, JESSE HOWKINS, KEVIN PINICHA

Date: 12-28-17 Instrument Used: TVA 1000

Temperature: 74 Upwind BG: 2 Downwind BG: 3

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION	
4	ICR	0813	0828	19.18	2	3	12	
10	ICR	0830	0845	17.46	1	2	15	
11	ICR	0847	0902	984	1	2	15	SURFACE
5	ICR	0905	0920	102	1	2	8	
34	ICR	0926	0941	1,406	1	2	13	WELL GW 71
38	ICR	0944	0959	1,585	1	2	13	WELL GW 58R
37	ICR	1000	1015	127	2	3	14	
36	ICR	1016	1031	878	2	3	14	SURFACE
35	ICR	1033	1048	1,380	2	3	14	WELL 1703 A
59	ICR	1056	1111	106	2	3	14	
60	ICR	1112	1127	51.64	2	3	14	
3	AT	0817	0832	14.40	2	3	12	
9	AT	0834	0849	15.99	1	2	15	
16	AT	0851	0906	91.26	1	2	15	
17	AT	0908	0923	458	1	2	8	SURFACE
54	AT	0928	0943	175	1	2	13	
22	AT	0951	1006	1,237	1	2	13	SURFACE
23	AT	1011	1026	1,553	2	3	14	WELL GW 40 S
24	AT	1032	1047	866	2	3	14	SURFACE
25	AT	1051	1106	5.21	2	3	14	
14	AT	1108	1123	57.32	2	3	14	

Attach Calibration Sheet
Attach site map showing grid ID

TOLAND LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEISHMAN

Date: 12-28-17 Instrument Used: _____

Temperature: _____ Upwind BG: _____ Downwind BG: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION	
29								Active
27								
30								
32								
48								
41								
42								
46								
47								
45								
50								

Attach Calibration Sheet
Attach site map showing grid ID

Page _____ of _____

RES

ENVIRONMENTAL INC.

TVA CALIBRATION LOG

Landfill: Ryland AO

OPERATOR INITIALS	DATE	SN #	CH4 CALIBRATION GAS UNCORRECTED READINGS						CH4 CALIBRATION GAS CORRECTED READINGS					
			LOW		MED		HIGH		LOW		MED		HIGH	
			PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT
AW	12-28-17	1036346173	—	—	—	—	500	500	—	—	—	—	500	500
DZ	↓	1030745322	—	—	—	—	500	500	—	—			500	500
ICR	↓	1102346225	—	—	—	—	500	501	—	—			500	502
AT	↓	1036346174	—	—	—	—	500	504	—	—	—	—	503	504
JM	↓	1036346223	—	—	—	—	500	502	—	—	—	—	500	502

12-28-17 TOLAND LANDFILL ISM

ID	lat	lon	time	name	cmt
1	34.40652	118.991816	20171228T17:20:44Z	102PPM	Grd5
2	34.40229	118.995765	20171228T19:11:31Z	106PPM	Grd59
3	34.40588	118.993228	20171228T16:49:22Z	11.82PPM	Grd19
4	34.40196	118.996481	20171228T19:20:46Z	111PPM	Grd61
5	34.40406	118.997787	20171228T18:31:17Z	1130PPM	Grd45
6	34.40647	118.993597	20171228T16:31:42Z	12.79PPM	Grd18
7	34.40508	118.996291	20171228T18:15:44Z	122PPM	Grd37
8	34.40154	118.996975	20171228T19:37:21Z	131PPM	Grd62
9	34.40476	118.998232	20171228T19:49:09Z	1380PPM	Grd35
10	34.40721	118.992368	20171228T16:34:35Z	14.40PPM	Grd3
11	34.40525	118.995482	20171228T17:42:07Z	1406PPM	Grd34
12	34.40274	118.994992	20171228T18:55:46Z	140PPM	Grd55
13	34.40448	118.997145	20171228T18:14:57Z	145PPM	Grd40
14	34.40709	118.993069	20171228T16:49:59Z	15.99PPM	Grd9
15	34.40599	118.993801	20171228T17:04:02Z	153PPM	Grd20
16	34.40552	118.994146	20171228T18:28:49Z	1553PPM	GRD23
17	34.40481	118.995534	20171228T19:53:58Z	1585PPM	Grd38
18	34.40565	118.991685	20171228T16:47:05Z	16.41PPM	Grd7
19	34.4064	118.992898	20171228T16:45:38Z	17.46PPM	Grd10
20	34.40785	118.99289	20171228T16:44:21Z	17.50PPM	Grd2
21	34.40611	118.991804	20171228T16:30:25Z	17.72PPM	Grd6
22	34.403	118.996081	20171228T18:39:20Z	1722PPM	GRD53
23	34.40556	118.993549	20171228T18:08:52Z	1737PPM	Grd22
24	34.40269	118.997682	20171228T19:04:45Z	1874PPM	Grd56
25	34.40673	118.992182	20171228T16:29:27Z	19.18PPM	Grd4
26	34.40754	118.993511	20171228T17:01:12Z	19.77PPM	Grd8
27	34.40728	118.991935	20171228T16:30:49Z	19.87PPM	Grd1
28	34.40394	118.993151	20171228T18:06:51Z	20.57PPM	Grd28
29	34.4033	118.994183	20171228T18:39:36Z	21.36PPM	Grd44
30	34.40584	118.994203	20171228T17:44:36Z	2157PPM	Grd21
31	34.4028	118.99698	20171228T18:57:04Z	216PPM	Grd57
32	34.40428	118.992923	20171228T17:50:02Z	23.00PPM	Grd26
33	34.40333	118.997746	20171228T18:50:36Z	260PPM	Grd51
34	34.40329	118.996871	20171228T18:22:04Z	337PPM	Grd52
35	34.4036	118.993491	20171228T18:23:24Z	39.07PPM	Grd33
36	34.40671	118.994586	20171228T17:25:29Z	458PPM	Grd17
37	34.40468	118.993168	20171228T19:07:57Z	5.21PPM	Grd25
38	34.40217	118.997391	20171228T19:28:21Z	51.64PPM	Grd60
39	34.40466	118.992397	20171228T19:31:27Z	57.37PPM	Grd14
40	34.40384	118.99493	20171228T18:04:40Z	184PPM	Grd43
41	34.40262	118.996323	20171228T19:14:06Z	70.38PPM	Grd58
42	34.40494	118.992064	20171228T17:04:57Z	77.67PPM	Grd13
43	34.40727	118.994219	20171228T17:18:29Z	822PPM	Grd15
44	34.40486	118.993606	20171228T18:49:57Z	860PPM	Grd24
45	34.4051	118.997082	20171228T19:48:28Z	878PPM	Grd36

46	34.40524	118.992572	20171228T17:21:54Z	88.73PPM	Grd12
47	34.40674	118.993627	20171228T17:07:08Z	91.26PPM	Grd16
48	34.4045	118.998	20171228T17:59:14Z	96.62PPM	Grd39
49	34.40581	118.992562	20171228T17:02:45Z	984PPM	Grd11
50	34.40662	118.994841	20171228T19:55:07Z	B41	458ppmGrd17Surface
51	34.40343	118.998049	20171228T18:48:54Z	B61	260Ppmsurface
52	34.40567	118.992817	20171228T16:59:04Z	Y21	984Ppmsurface
53	34.40532	118.994933	20171228T17:32:41Z	Y22	900Ppmsurface
54	34.40513	118.995392	20171228T17:35:20Z	Y23	1406Ppmwellvcw71
55	34.40477	118.995214	20171228T17:47:57Z	Y24	1585Ppmwellvgw58rs
56	34.40492	118.997481	20171228T18:29:45Z	Y25	800Ppmwellvgw8
57	34.40529	118.996975	20171228T18:27:28Z	Y26	878Ppmsurface
58	34.40444	118.998356	20171228T18:48:55Z	Y27	1380Ppmwell1703a
59	34.40618	118.994954	20171228T17:38:59Z	Y41	2157ppmGrd21Surface
60	34.40561	118.993812	20171228T18:05:21Z	Y42	1737ppmGrd22
61	34.40571	118.994188	20171228T18:20:45Z	Y43	1553ppmGrd23WellGW40S
62	34.40506	118.993532	20171228T18:47:43Z	Y44	860ppmGrd24Surface
63	34.40723	118.994557	20171228T17:17:18Z	Y61	822PpmSurface
64	34.404	118.998205	20171228T18:24:09Z	Y62	1130PpmSurface
65	34.40282	118.997757	20171228T19:03:12Z	Y63	1874PpmSurface
66	34.40577	118.994071	20171228T17:21:57Z	Y81	10,000ppmsurface
67	34.40419	118.994335	20171228T17:46:20Z	Y82	Wellvgw60s7935ppm

12-28-17 TOLAND LANDFILL ISM

LOGGED DATA
VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
28 DEC 17	09:35:05	GRD6	0.00 PPM OK	17.72 PPM OK
28 DEC 17	09:51:11	GRD7	0.00 PPM OK	16.41 PPM OK
28 DEC 17	10:08:02	GRD13	0.00 PPM OK	77.67 PPM OK
28 DEC 17	10:27:02	GRD12	0.00 PPM OK	88.73 PPM OK
28 DEC 17	10:54:21	GRD26	0.00 PPM OK	23.00 PPM OK
28 DEC 17	11:11:18	GRD28	0.00 PPM OK	20.57 PPM OK
28 DEC 17	11:28:16	GRD33	0.00 PPM OK	39.07 PPM OK
28 DEC 17	11:44:10	GRD44	0.00 PPM OK	21.36 PPM OK
28 DEC 17	12:00:40	GRD55	0.00 PPM OK	140 PPM OK

END
LOGGED DATA
VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
28 DEC 17	08:32:59	GRD 3	0.00 PPM OK	14.40 PPM OK
28 DEC 17	08:49:55	GRD 9	0.00 PPM OK	15.99 PPM OK
28 DEC 17	09:07:12	GRD 16	0.00 PPM OK	91.26 PPM OK
28 DEC 17	09:24:27	GRD 17	0.00 PPM OK	458 PPM OK
28 DEC 17	09:43:54	GRD 54	0.00 PPM OK	173 PPM OK
28 DEC 17	10:07:02	GRD 22	0.00 PPM OK	1737 PPM OK
28 DEC 17	10:27:14	GRD 23	0.00 PPM OK	1553 PPM OK
28 DEC 17	10:48:09	GRD 24	0.00 PPM OK	866 PPM OK
28 DEC 17	11:07:12	GRD 25	0.00 PPM OK	5.21 PPM OK
28 DEC 17	11:24:22	GRD 14	0.00 PPM OK	57.37 PPM OK

END
LOGGED DATA
VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
28 DEC 17	08:27:58	GRD4	0.00 PPM OK	19.18 PPM OK
28 DEC 17	08:44:26	GRD10	0.00 PPM OK	17.46 PPM OK
28 DEC 17	09:01:14	GRD11	0.00 PPM OK	984 PPM OK
28 DEC 17	09:19:19	GRD5	0.00 PPM OK	102 PPM OK
28 DEC 17	09:40:38	GRD34	0.00 PPM OK	1406 PPM OK

28 DEC 17	09:58:07	GRD38	0.00 PPM OK	1585 PPM OK
28 DEC 17	10:14:32	GRD37	0.00 PPM OK	122 PPM OK
28 DEC 17	10:30:41	GRD36	0.00 PPM OK	878 PPM OK
28 DEC 17	10:47:40	GRD35	0.00 PPM OK	1380 PPM OK
28 DEC 17	11:10:09	GRD59	0.00 PPM OK	106 PPM OK
28 DEC 17	11:26:47	GRD60	0.00 PPM OK	51.64 PPM OK

END
LOGGED DATA
VER= 1.00

VOC DATA

DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
28 DEC 17	08:32:35	GRD18	0.00 PPM OK	12.79 PPM OK
28 DEC 17	08:49:01	GRD19	0.00 PPM OK	11.82 PPM OK
28 DEC 17	09:04:37	GRD20	0.00 PPM OK	153 PPM OK
28 DEC 17	09:21:20	GRD21	0.00 PPM OK	11934 PPM OK
28 DEC 17	09:43:51	GRD31	0.00 PPM OK	7935 PPM OK
28 DEC 17	10:05:40	GRD43	0.00 PPM OK	184 PPM OK
28 DEC 17	10:22:46	GRD52	0.00 PPM OK	33.70 PPM OK
28 DEC 17	10:40:22	GRD53	0.00 PPM OK	1722 PPM OK
28 DEC 17	10:57:43	GRD57	0.00 PPM OK	21.60 PPM OK
28 DEC 17	11:14:25	GRD58	0.00 PPM OK	70.38 PPM OK

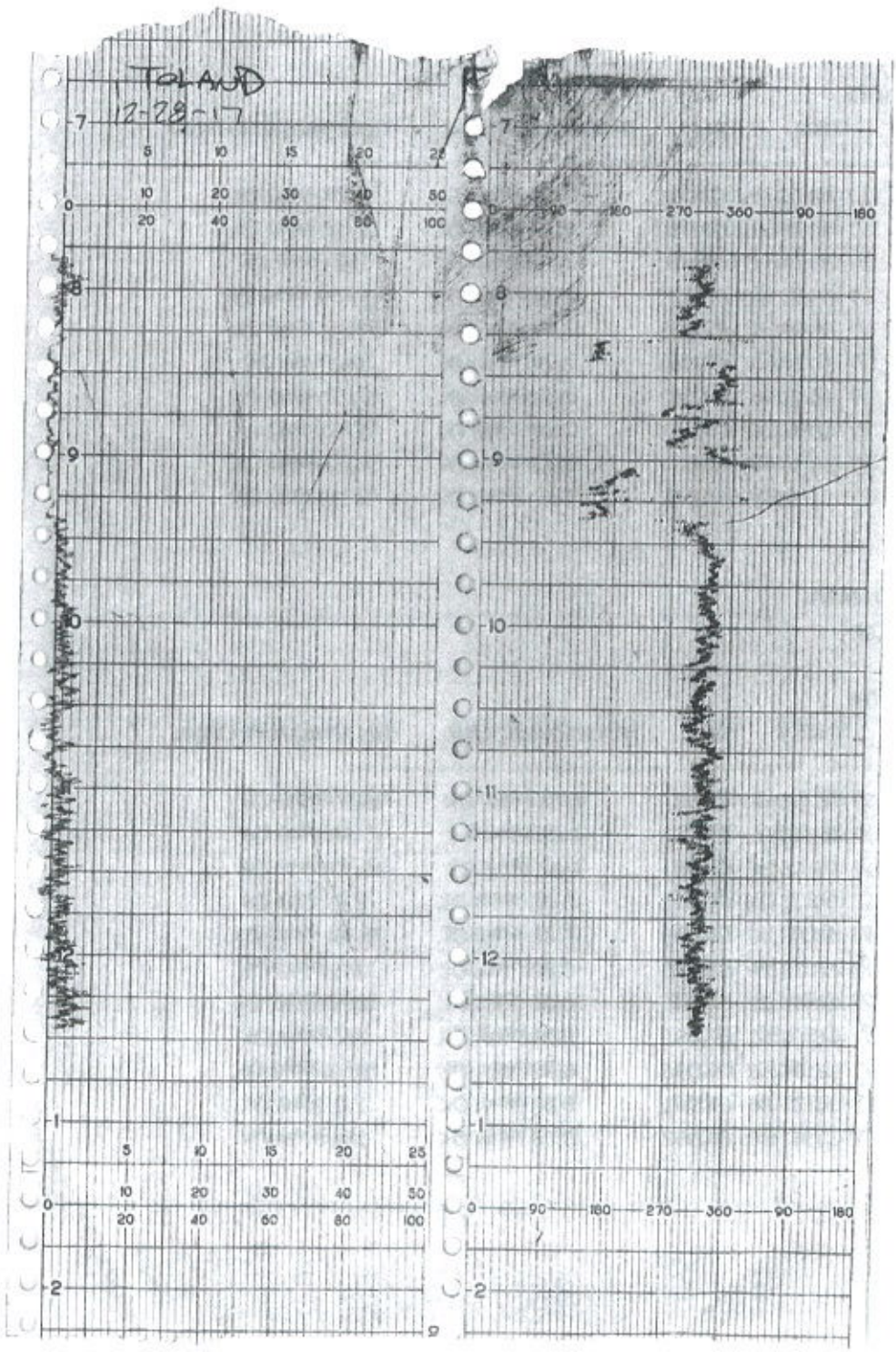
END
LOGGED DATA
VER= 1.00

VOC DATA

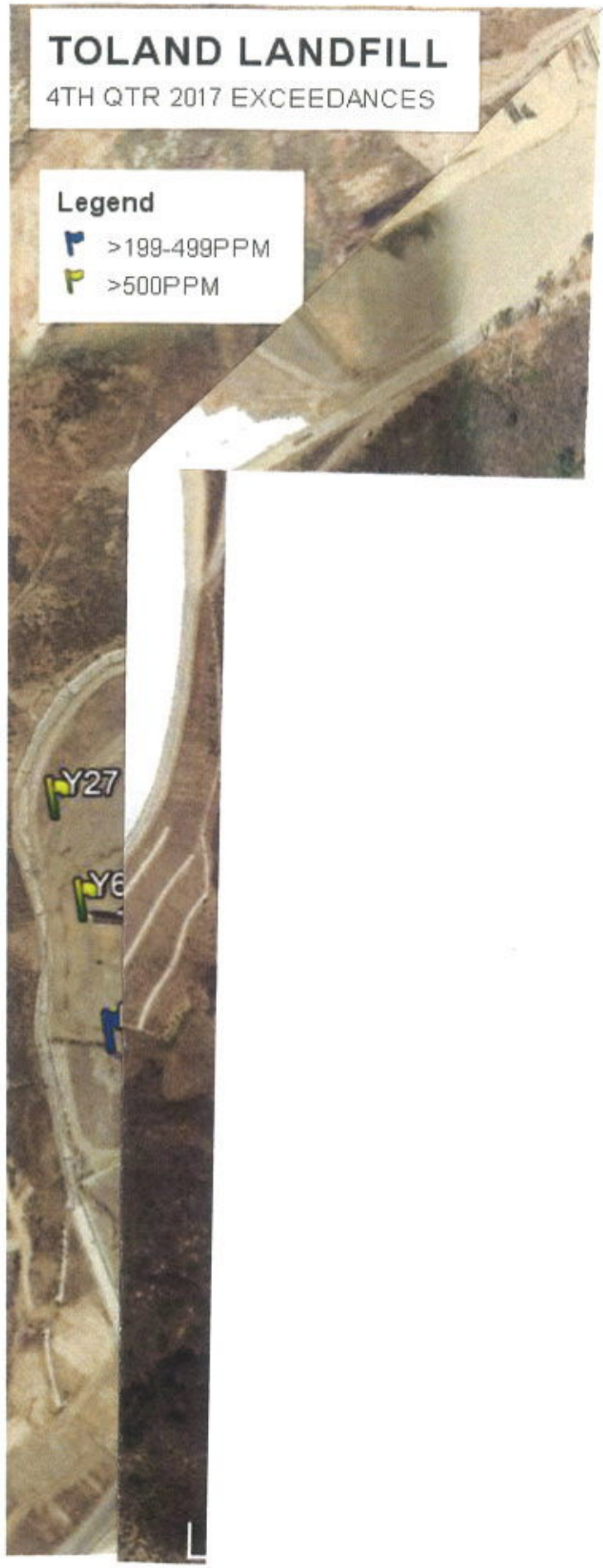
DATE	TIME	TAG	FID BACKGROUND	FID CONCENTRATION
28 DEC 17	08:33:40	GRD1	0.00 PPM OK	19.87 PPM OK
28 DEC 17	08:49:32	GRD2	0.00 PPM OK	17.50 PPM OK
28 DEC 17	09:05:16	GRD8	0.00 PPM OK	19.77 PPM OK
28 DEC 17	09:21:22	GRD15	0.00 PPM OK	822 PPM OK
28 DEC 17	10:03:41	GRD39	0.00 PPM OK	96.62 PPM OK
28 DEC 17	10:19:29	GRD40	0.00 PPM OK	145 PPM OK
28 DEC 17	10:35:28	GRD45	0.00 PPM OK	1130 PPM OK
28 DEC 17	10:51:55	GRD51	0.00 PPM OK	260 PPM OK
28 DEC 17	11:08:53	GRD56	0.00 PPM OK	1874 PPM OK
28 DEC 17	11:25:05	GRD61	0.00 PPM OK	111 PPM OK
28 DEC 17	11:41:38	GRD62	0.00 PPM OK	131 PPM OK

END

WIND SPEED & DIRECTION CHART ROLL



TOLAND LANDFILL


TOLAND LANDFILL
4TH QTR 2017 EXCEEDANCES
Legend
>199-499PPM
>500PPM
Y27
Y6
L

Tolano Road Landfill 2017 Monthly Throughputs

Date	Micro Flow (scf)	Total MMBtu	HHV
Jan	0	0	583
Feb	0	0	577
Mar	0	0	565.2
Apr	6,014,165	3,470	542
May	14,525,698	7,858	541
Jun	7,805,908	4,099	509
Totals	**28,345,771**	**15,428**	**553**

Date	Flare (scf)	Total MMBtu	HHV
Jan	39,592,737	23,083	583
Feb	32,886,446	18,975	577
Mar	47,262,688	26,711	565.2
Apr	48,232,430	26,154	542
May	44,397,032	24,022	541
Jun	50,960,986	25,919	509
Totals	**263,332,319**	**144,864**	**553**

2017 Total

Total Flow (scf)	Total MMBtu
291,678,090	**160,291**

added 1/03/2019

Toland ' ,ad Landfill 2017 Monthly Thr. .ghputs

Date	Micro Flow (scf)	Total MMBtu	HHV
Jul	3,774,388	1,865	493.5
Aug	2,307,849	1,154	516.8
Sep	15,331,358	7,666	515.8
Oct	8,976,650	4,606	513
Nov	4,224,219	2,188	518
Dec	0	0	477
Totals	**34,614,464**	**17,479**	**506**

Date	Flare (scf)	Total MMBtu	HHV
Jul	57,477,940	28,365	493.5
Aug	58,456,092	30,209	516.8
Sep	45,085,897	23,254	515.8
Oct	49,053,427	25,171	513
Nov	52,776,635	27,361	518
Dec	36,492,216	17,417	477
Totals	**299,342,207**	**151,777**	**506**

2017 Total

Total Flow (scf)	Total MMBtu
333,956,671	**169,256**

+ 160,291 (prev. page)

329,597 MMBtu (2017 total)

450,000 MMBtu (permit limit)

* In compliance

Toland Road Landfill
2017 SC Fuels Gasoline Volume

Purchase Date	Month	Inv #	Gas Type	# of Gallons
01/04/17	JAN	0779231-IN	UNL REG	932
03/08/17	MAR	0823448-IN	UNL REG	1,015
04/19/17	APR	0854651-IN	UNL REG	1,300
05/31/17	MAY	0890661-IN	UNL REG	800
07/05/17	JUL	0916229-IN	UNL REG	1,000
08/23/17	AUG	0954474-IN	UNL REG	963
10/05/17	OCT	992253A-IN	UNL REG	1,000
11/10/17	NOV	1020295	UNL REG	997
12/31/17	DEC	n/a	UNL REG	0
			2017 Total Volume	8,007

IN COMPLIANCE.
PERMIT LIMIT = 12,000 Gal/year

VCAPCD Rule 50, Opacity
Annual Compliance Survey

Survey Information:

By: David Thomas
Date: October 16, 2017
Time: 2:30 PM to 3:00 PM
Emissions Unit: Toland Road Landfill - Micro-Turbines (E3, E4, E5, E6)

Verification: On the above date I observed no visible emissions (smoke) for a period or periods aggregating more than three (3) minutes during the time observed (0.5 hour).

David F Thomas

DAVID F. THOMAS – ENGINEERING TECHNICIAN

VCAPCD Rule 50, Opacity
Annual Compliance Survey

Survey Information:

By: Ricardo Ontiveros
Date: October 17, 2017
Time: 10:00 AM to 10:30 AM
Emissions Unit: Toland Road Landfill - Flare

Verification: On the above date I observed no visible emissions (smoke) for a period or periods aggregating more than three (3) minutes during the time observed (0.5 hour).

RICARDO ONTIVEROS – ENGINEERING TECHNICIAN