August 8, 2022

Ventura County Air Pollution Control District
4567 Telephone Road, 2nd Floor
Ventura, California 93003
805-303-4005

Mr. Matt Salazar
Air Enforcement Office
US EPA, Region IX
75 Hawthorne Street
San Francisco, CA 94105

RE: 40 CFR 63, Subpart AAAA Semi-Annual Report
Simi Valley Landfill and Recycling Center, Simi Valley, California

January – June 2022

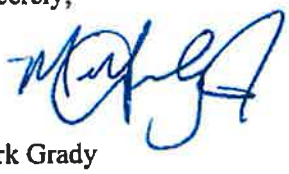
Dear Mr. Keith Macias,

Pursuant to Title 40 Code of Federal Regulations 63.1981(h), Waste Management of California, Inc. is submitting the Initial Semi-Annual Report for the Simi Valley Landfill and Recycling Center (SVLRC). This report covers the period from January 1, 2022 to June 30, 2022.

If you have any questions or comments regarding this document, please call Collin Pavelchik at (510) 714-6098 (cpavelch@wm.com).

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Ventura County Air Pollution Control District as public record.

Sincerely,



Mark Grady
District Manager

cc Mr. Christian Colline, Waste Management
Ms. Jayna Morgan, Waste Management
Mr. Dustin Colyar, Waste Management
Mr. Matthew Darr, Waste Management

AUGUST 2022

INITIAL 40 CFR 63, SUBPART AAAA SEMI-ANNUAL REPORT JANUARY – JUNE 2022

WASTE MANAGEMENT

SIMI VALLEY LANDFILL AND RECYCLING CENTER
Ventura, California

2801 Madera Road, Simi Valley, CA 93065
Facility No. 01395

EXECUTIVE SUMMARY

The Simi Valley Landfill and Recycling Center (SVLRC) is a municipal solid waste (MSW) landfill located in Ventura, California in Ventura County and is owned/operated by Waste Management of California, Inc. The facility is subject to the requirements of the United States Environmental Protection Agency's (USEPA) *Standards of Performance for Municipal Solid Waste Landfills*; 40 Code of Federal Regulations (CFR) Part 63, Subpart AAAA and as such is submitting this NESHAP AAAA Report.

On June 21, 2021, new requirements from 40 CFR 62.1115(b)(2) incorporated monitoring, recordkeeping, and reporting requirements for landfill gas temperatures at wellheads from sections of 40 CFR 62, Subpart OOO that were incorporated into the California State Plan 40 CFR 62 Subpart F. As of September 27, 2021, SVLRC began complying with 40 CFR 63, Subpart AAAA in lieu of the 40 CFR 62 Subpart OOO sections that were incorporated into the 40 CFR 62 Subpart F California State Plan.

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1.0 40 CFR 63.1981(h) SEMI-ANNUAL REPORT

SVLRC is submitting this Report because the existing MSW landfill owns and/or operates an active landfill gas collection and control system. The following summarizes the report requirements pursuant to §63.1981(h). This report covers from January 1, 2022 through June 30, 2022.

1.1 Exceedance of Applicable Parameters §63.1981(h)(1)

§63.1981(h)(1) Number of times that applicable parameters monitored under §63.1958(b), (c), and (d) were exceeded and when the gas collection and control system was not operating under §63.1958(e), including periods of SSM. For each instance, report the date, time, and duration of each exceedance.

(i) Where an owner or operator subject to the provisions of this subpart seeks to demonstrate compliance with the temperature and nitrogen or oxygen operational standards in introductory paragraph §63.1958(c), provide a statement of the wellhead operational standard for temperature and oxygen you are complying with for the period covered by the report. Indicate the number of times each of those parameters monitored under §63.1961(a)(3) were exceeded. For each instance, report the date, time, and duration of each exceedance.

(ii) Where an owner or operator subject to the provisions of this subpart seeks to demonstrate compliance with the operational standard for temperature in §63.1958(c)(1), provide a statement of the wellhead operational standard for temperature and oxygen you are complying with for the period covered by the report. Indicate the number of times each of those parameters monitored under §63.1961(a)(4) were exceeded. For each instance, report the date, time, and duration of each exceedance.

(iii) Beginning no later than September 27, 2021, number of times the parameters for the site-specific treatment system in §63.1961(g) were exceeded.

1.1.1 Wells Operating Under Positive Pressure §63.1958(b)

§63.1958(b) Operate the collection system with negative pressure at each wellhead except under the following conditions:

(1) A fire or increased well temperature. The owner or operator must record instances when positive pressure occurs in efforts to avoid a fire. These records must be submitted with the semi-annual reports as provided in §63.1981(h);

(2) Use of a geomembrane or synthetic cover. The owner or operator must develop acceptable pressure limits in the design plan;

(3) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes must be approved by the Administrator as specified in §63.1981(d)(2);

SVLRC operated in compliance with all wellhead monitoring standards listed in §63.1958(b) during the reporting period. All instances of positive pressure were corrected within applicable Subpart AAAA timelines.

On a monthly basis operations and maintenance personnel measure the gauge pressure, temperature, and oxygen concentration at each well head. The gauge pressure taken at the wellhead is used in determining the presence of vacuum at the collector. Measurements are taken with a portable meter which is calibrated per the manufacturer's specifications.

Wells that were found to be operating at positive pressures are summarized in the following table.

Wells Operating Under Positive Pressure

Name	Initial Reading		Corrective Action Date	5-Day Corrective Action	Final Reading		Duration (days)
	Date	Value ("H_2O)			Date	Value ("H_2O)	
2105	4/25/22	0.04	4/25/22	Inc. Flow/Vac.	4/25/22	-0.08	<1
2106	4/25/22	0.34	4/25/22	Inc. Flow/Vac	4/25/22	-0.21	<1
2108	4/25/22	0.17	4/25/22	Inc. Flow/Vac	4/25/22	-0.22	<1
2111	4/25/22	0.67	4/25/22	Inc. Flow/Vac	4/25/22	-0.45	<1
1235A	3/8/22	0.0	3/8/22	Inc. Flow/Vac	3/8/22	-0.6	<1
1401B	1/26/22	3.54	1/26/22	Inc. Flow/Vac	1/26/22	-3.45	<1
2001B	5/4/22	0.0	5/4/22	Inc. Flow/Vac	5/4/22	-0.3	<1
2115F	4/25/22	0.22	4/25/22	Inc. Flow/Vac	4/25/22	-0.15	<1
1570D	2/22/22	43.01	2/22/22	Inc. Flow/Vac	2/22/22	-16.13	3
1570D	5/4/22	0.8	5/4/22	Inc. Flow/Vac	5/4/22	-31.3	<1

Wells Operating Under Positive Pressure

Name	Initial Reading		Corrective Action Date	5-Day Corrective Action	Final Reading		Duration (days)
	Date	Value ("H_2O)			Date	Value ("H_2O)	
1570S	5/4/22	0.0	5/4/22	Inc. Flow/Vac	5/4/22	-3.5	<1
1924S	1/21/22	0.46	1/21/22	Inc. Flow/Vac	1/21/22	-0.22	<1
1924S	5/3/22	0.0	5/3/22	Inc. Flow/Vac	5/3/22	-0.5	<1
1933S	2/3/22	0.0	2/3/22	Inc. Flow/Vac	2/3/22	-0.12	15
1933S	5/4/22	0.0	5/4/22	Inc. Flow/Vac	5/4/22	-0.2	<1
0031	4/26/22	10.53	4/26/22	Inc. Flow/Vac	4/26/22	-1.01	<1
1798	6/2/22	1.72	6/2/22	Inc. Flow/Vac	6/2/22	-14.97	<1
2001	2/3/22	2.22	2/3/22	Inc. Flow/Vac	2/3/22	-0.32	<1
2062	2/11/22	0.63	2/11/22	Inc. Flow/Vac	2/11/22	-1.49	<1
2079	1/25/22	0.07	1/25/22	Inc. Flow/Vac	2/8/22	-1.68	14
2090	2/11/22	0.0	2/11/22	Inc. Flow/Vac	2/11/22	-0.17	<1
2090	3/8/22	0.0	3/8/22	Inc. Flow/Vac	3/23/22	-0.04	15
2090	6/1/22	0.0	6/1/22	Inc. Flow/Vac	6/15/22	-0.06	14
2099	1/26/22	2.63	1/26/22	Inc. Flow/Vac	1/26/22	-1.51	<1

1.1.2 Wells with Temperatures >145°F or HOV §63.1958(c)

§63.1958(c) Operate each interior wellhead in the collection system as specified in 40 CFR 60.753(c), until the landfill owner or operator elects to meet the operational standard for temperature in paragraph (c)(1) of this section.

> *(1) Beginning no later than September 27, 2021, operate each interior wellhead in the collection system with a landfill gas temperature less than 62.8 degrees Celsius (145 degrees Fahrenheit).*

(2) The owner or operator may establish a higher operating temperature value at a particular well. A higher operating value demonstration must be submitted to the Administrator for approval and must include supporting data demonstrating that the elevated parameter neither causes fires nor significantly inhibits anaerobic decomposition by killing methanogens. The demonstration must satisfy both criteria in order to be approved (i.e., neither causing fires nor killing methanogens is acceptable).

The applicable standard for temperature and oxygen during this reporting period was §63.1958(c)(1), [62.8°C (145°F) or higher operating value (HOV), no oxygen limits]. SVLRC operated in compliance with all wellhead monitoring standards listed in §63.1958(c) during the reporting period. There were no instances of temperatures greater than 145°F (or HOV).

Each landfill gas collector is equipped with an access port allowing for measuring temperature at each wellhead. On a monthly basis operations and maintenance personnel measure the gauge pressure, temperature, and oxygen concentration at each well head. Measurements are taken with a portable meter which is calibrated per the manufacturer's specifications.

Wells with Landfill Gas Temperature Greater than 145°F or HOV

Name	Initial Reading		5-Day Corrective Action	Final Reading		Duration (days)
	Date	Temp (°F)		Date	Temp (°F)	
N/A						

A list of all current HOVs (greater than 145°F) is presented in the following table:

Wells with Temperature HOVs

Device	Date	HOV
SIM1778D	6/18/2021	150
SIMW1779	6/18/2021	150

Device	Date	HOV
SIMW1232	6/18/2021	150
SIMW1233	6/18/2021	150

*SVLRC also has seventy-two (72) existing HOVs for temperatures equal or greater than 131°F and equal or less than 145°F.

1.1.3 Surface Emissions Monitoring §63.1958(d)

§63.1958(d)(1) Operate the collection system so that the methane concentration is less than 500 parts per million (ppm) above background at the surface of the landfill. To determine if this level is exceeded, the owner or operator must conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill at no more than 30-meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. The owner or operator may establish an alternative traversing pattern that ensures equivalent coverage. A surface monitoring design plan must be developed that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the 30-meter intervals. Areas with steep slopes or other dangerous areas may be excluded from the surface testing.

(2) Beginning no later than September 27, 2021, the owner or operator must:

(i) Conduct surface testing using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in §63.1960(d).

(ii) Conduct surface testing at all cover penetrations. Thus, the owner or operator must monitor any cover penetrations that are within an area of the landfill where waste has been placed and a gas collection system is required.

(iii) Determine the latitude and longitude coordinates of each exceedance using an instrument with an accuracy of at least 4 meters. The coordinates must be in decimal degrees with at least five decimal places.

Surface emissions monitoring is discussed in Section 1.5.

1.1.4 Treatment System Monitoring §63.1981(h)(1)(iii)

§63.1981(h)(1) (iii) Beginning no later than September 27, 2021, number of times the parameters for the site-specific treatment system in §63.1961(g) were exceeded.

§63.1961(g) Each owner or operator seeking to demonstrate compliance with §63.1959(b)(2)(iii)(C) using a landfill gas treatment system must calibrate, maintain, and operate according to the manufacturer's specifications a device that records flow to the treatment system and bypass of the treatment system (if applicable). Beginning no later than September 27, 2021, each owner or operator must maintain and operate all monitoring systems associated with the treatment system in accordance with the site-specific treatment system monitoring plan required in §63.1983(b)(5)(ii). The owner or operator must:

(1) Install, calibrate, and maintain a gas flow rate measuring device that records the flow to the treatment system at least every 15 minutes; and

(2) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism must be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.

SVLRC does not operate a treatment system and therefore, is not subject to the requirements of §63.1981(h)(1)(iii).

1.2 Gas Stream Diversion §63.1981(h)(2)

§63.1981(h)(2) Description and duration of all periods when the gas stream was diverted from the control device or treatment system through a bypass line or the indication of bypass flow as specified under §63.1961.

The gas collection system is not designed nor equipped to bypass the control device(s); therefore §63.1981(h)(2) is not applicable.

1.3 Control or Treatment System Downtime Events §63.1981(h)(3)

§63.1981(h)(3) Description and duration of all periods when the control device or treatment system was not operating and length of time the control device or treatment system was not operating.

Control device and treatment system downtime events were recorded in compliance with §63.1981(h)(1) and (3) during the reporting period. The following tables summarize all the periods when the control devices and/or treatment system were not operating.

Enclosed Flare No. 3 Downtime Events

Shutdown	Startup	Duration (hours)	Reason
2/3/2022 3:55	2/3/2022 9:05	5.17	High H2S warning shutdown
2/4/2022 7:35	2/4/2022 9:50	2.25	High H2S warning shutdown
2/5/2022 11:00	2/5/2022 14:25	3.42	Low Gas Flow
2/5/2022 17:35	2/5/2022 18:55	1.33	Blower 104/105 Failure
2/21/2022 15:15	2/21/2022 19:55	4.67	Manual Shut Down / Surging
2/23/2022 8:35	2/23/2022 20:15	11.67	Manual Shut Down / Surging

Enclosed Flare No. 3 Downtime Events

Shutdown	Startup	Duration (hours)	Reason
2/24/2022 16:45	2/24/2022 21:35	4.83	Manual Shut Down / Surging
2/26/2022 19:30	2/27/2022 18:35	23.08	Manual Shut Down / Surging
2/28/2022 8:20	2/28/2022 13:50	5.50	Manual Shut Down / Surging
3/1/2022 8:35	3/1/2022 12:40	4.08	Manual Shut Down / Surging
3/10/2022 9:50	3/10/2022 10:45	0.92	H2S Vessel
3/11/2022 18:35	3/12/2022 10:05	15.50	H2S Vessel
3/14/2022 12:25	3/14/2022 19:35	7.17	H2S Vessel
3/15/2022 8:05	3/15/2022 16:10	8.08	H2S Vessel
3/17/2022 5:30	3/17/2022 15:35	10.08	H2S Vessel
3/20/2022 0:35	3/21/2022 14:10	37.58	Power Outage
3/21/2022 15:50	3/21/2022 16:15	0.42	Compressor Maintenance
3/29/2022 10:20	3/29/2022 10:55	0.58	Blower Maintenance
3/31/2022 9:55	3/31/2022 10:25	0.50	Electrical Maintenance
3/31/2022 14:20	3/31/2022 15:05	0.75	Electrical Maintenance
4/4/2022 8:45	4/4/2022 13:40	4.92	Replacing Valves at Vessels
4/5/2022 7:35	4/5/2022 11:40	4.08	Replacing Valves at Vessels
4/5/2022 21:00	4/6/2022 11:25	14.42	H2S Vessel Coupling Failed
4/20/2022 13:15	4/20/2022 14:55	1.67	Continuum Field Work
4/22/2022 9:05	4/22/2022 10:15	1.17	Continuum Field Work
5/16/2022 13:05	5/16/2022 16:30	3.42	Manual Shut Down / Vessel Repair
5/18/2022 7:30	5/18/2022 12:05	4.58	Manual Shut Down / Vessel Repair
6/22/2022 8:45	6/22/2022 15:15	6.50	Manual Shut Down for Maintenance
6/27/2022 6:45	6/27/2022 8:40	1.92	H2S Coupling Failed / Air Intrusion

Enclosed Flare No. 4 Downtime Events

Shutdown	Startup	Duration (hours)	Reason
12/30/2021 8:35	1/4/2022 13:10	124.58	Standing Water in Combust. Air Cabinet
1/24/2022 7:00	1/24/2022 12:15	5.25	Shut Down for Maintenance
2/3/2022 3:55	2/3/2022 13:45	9.83	High H2S warning shutdown
2/4/2022 7:35	2/4/2022 12:45	5.17	High H2S warning shutdown
2/5/2022 11:15	2/5/2022 15:15	**4.00**	Low Gas Flow
2/5/2022 17:45	2/5/2022 18:55	1.17	Blower 104/105 Failure
2/15/2022 0:30	2/18/2022 12:30	84.00	High Burner Temp
2/21/2022 15:15	2/21/2022 19:50	4.58	Manual Shut Down / Surging
2/23/2022 8:35	2/23/2022 20:15	11.67	Manual Shut Down / Surging
2/24/2022 16:45	2/24/2022 21:25	4.67	Manual Shut Down / Surging
2/26/2022 19:30	2/27/2022 18:15	22.75	Manual Shut Down / Surging
2/28/2022 8:20	2/28/2022 13:45	5.42	Manual Shut Down / Surging
3/1/2022 8:35	3/1/2022 12:55	4.33	Manual Shut Down / Surging
3/2/2022 11:25	3/2/2022 15:30	4.08	Manual Shut Down / Surging
3/10/2022 9:50	3/10/2022 10:30	0.67	H2S Vessel
3/11/2022 18:35	3/12/2022 9:40	15.08	H2S Vessel
3/14/2022 12:25	3/14/2022 19:40	7.25	H2S Vessel
3/15/2022 8:05	3/15/2022 16:05	8.00	H2S Vessel
3/20/2022 0:20	3/21/2022 14:20	38.00	Power Outage
3/21/2022 15:50	3/21/2022 16:15	0.42	Compressor Maintenance
3/29/2022 10:20	3/29/2022 10:50	0.50	Blower Maintenance
3/31/2022 9:55	3/31/2022 10:30	0.58	Electrical Maintenance

3/31/2022 14:20	3/31/2022 15:10	0.83	Electrical Maintenance
4/4/2022 8:45	4/4/2022 14:25	5.67	Replacing Valves at Vessels
4/5/2022 7:35	4/5/2022 11:30	3.92	Replacing Valves at Vessels
4/5/2022 21:00	4/6/2022 12:00	15.00	H2S Vessel Coupling Failed
4/20/2022 13:15	4/20/2022 14:25	1.17	Continuum Field Work
4/22/2022 9:05	4/22/2022 10:15	1.17	Continuum Field Work
5/16/2022 13:05	5/16/2022 16:45	3.67	Manual Shut Down / Vessel Repair
5/18/2022 7:30	5/18/2022 12:05	4.58	Manual Shut Down / Vessel Repair
5/19/2022 5:30	5/19/2022 13:50	8.33	Air Leak in Field
6/7/2022 19:35	6/7/2022 19:55	0.33	Power Outage
6/11/2022 3:45	6/11/2022 10:30	6.75	Combustion Air Blower Filters
6/22/2022 8:45	6/22/2022 15:05	6.33	Manual Shut Down for Maintenance
6/27/2022 6:45	6/27/2022 9:25	2.67	H2S Coupling Failed / Air Intrusion
6/28/2022 9:50	6/28/2022 10:05	0.25	Shut Down to Swap Air Filters

1.4 Collection System Downtime Events §63.1981(h) (4)

§63.1981(h)(4) All periods when the collection system was not operating.

§63.1958(e) Operate the system as specified in § 60.753(e) of this chapter, except:

(1) Beginning no later than September 27, 2021, operate the system in accordance to §63.1955(c) such that all collected gases are vented to a control system designed and operated in compliance with §63.1959(b)(2)(iii). In the event the collection or control system is not operating:

(i) The gas mover system must be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere must be closed within 1 hour of the collection or control system not operating; and

(ii) Efforts to repair the collection or control system must be initiated and completed in a manner such that downtime is kept to a minimum, and the collection and control system must be returned to operation.

The gas collection system was operated in accordance with §63.1955(c) during the reporting period to in a manner consistent with safety and good air pollution control practices to minimize emissions and downtime. All collected gases were vented to a control system design and operated in compliance with §63.1959(b)(2)(iii). In the event of collection or control system downtime the gas mover system is shut down and all valves in the collection and control system contributing to the venting of gas to the atmosphere are closed within 1 hour of the collection or control system not operating. Efforts to repair the collection or control system are initiated and completed pursuant to the work practice standards of Section 112(h) of the Clean Air Act such that downtime is kept to a minimum, and the collection and control system is returned to operation.

Collection System Downtime Events

Shutdown	Startup	Duration (hours)	Reason
2/3/2022 3:55	2/3/2022 9:05	5.17	High H2S warning shutdown
2/4/2022 7:35	2/4/2022 9:50	2.25	High H2S warning shutdown
2/5/2022 11:00	2/5/2022 14:25	3.42	Low Gas Flow
2/5/2022 17:45	2/5/2022 18:55	1.17	Blower 104/105 Failure
2/21/2022 15:15	2/21/2022 19:50	4.58	Manual Shut Down / Surging
2/23/2022 8:35	2/23/2022 20:15	11.67	Manual Shut Down / Surging
2/24/2022 16:45	2/24/2022 21:25	4.67	Manual Shut Down / Surging
2/26/2022 19:30	2/27/2022 18:15	22.75	Manual Shut Down / Surging
2/28/2022 8:20	2/28/2022 13:45	5.42	Manual Shut Down / Surging
3/1/2022 8:35	3/1/2022 12:40	4.08	Manual Shut Down / Surging
3/10/2022 9:50	3/10/2022 10:30	0.67	H2S Vessel

Collection System Downtime Events

Shutdown	Startup	Duration (hours)	Reason
3/11/2022 18:35	3/12/2022 9:40	15.08	H2S Vessel
3/14/2022 12:25	3/14/2022 19:40	7.25	H2S Vessel
3/15/2022 8:05	3/15/2022 16:05	8.00	H2S Vessel
3/20/2022 0:35	3/21/2022 14:10	37.58	Power Outage
3/21/2022 15:50	3/21/2022 16:15	0.42	Compressor Maintenance
3/29/2022 10:20	3/29/2022 10:50	0.50	Blower Maintenance
3/31/2022 9:55	3/31/2022 10:25	0.50	Electrical Maintenance
3/31/2022 14:20	3/31/2022 15:05	0.75	Electrical Maintenance
4/4/2022 8:45	4/4/2022 13:40	4.92	Replacing Valves at Vessels
4/5/2022 7:35	4/5/2022 11:30	3.92	Replacing Valves at Vessels
4/5/2022 21:00	4/6/2022 11:25	14.42	H2S Vessel Coupling Failed
4/20/2022 13:15	4/20/2022 14:25	1.17	Continuum Field Work
4/22/2022 9:05	4/22/2022 10:15	1.17	Continuum Field Work
5/16/2022 13:05	5/16/2022 16:30	3.42	Manual Shut Down / Vessel Repair
5/18/2022 7:30	5/18/2022 12:05	4.58	Manual Shut Down / Vessel Repair
6/22/2022 8:45	6/22/2022 15:05	6.33	Manual Shut Down for Maintenance
6/27/2022 6:45	6/27/2022 8:40	1.92	H2S Coupling Failed / Air Intrusion

1.5 Surface Emissions Monitoring §63.1981(h)(5)

§63.1981(h)(5) The location of each exceedance of the 500-ppm methane concentration as provided in §63.1958(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month. Beginning no later than September 27, 2021, for location, you record the latitude and longitude coordinates of each exceedance using an instrument with an accuracy of at least 4 meters. The coordinates must be in decimal degrees with at least five decimal places.

Surface emissions monitoring was completed in compliance with §63.1960(c) during the reporting period. Monitoring included the perimeter of the landfill, the serpentine path with

a 30-meter spacing, penetration and openings monitoring and per Method 21 requirements areas where visual observations indicate possible elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover are monitored.

Monitoring for the First Quarter 2022 was completed during the reporting period. There were fifteen (15) locations with recorded methane concentrations greater than 500 ppm as methane. All locations were remediated within §63.1960(c)(4) timelines. The location information plus initial and final remediated methane concentrations are presented in the following tables. Applicable monitoring data is presented in Appendix A.

Monitoring for the Second Quarter 2022 was also completed during the reporting period. There were five (5) locations with recorded methane concentrations greater than 500 ppm as methane. All locations were remediated within §63.1960(c)(4) timelines. The location information plus initial and final remediated methane concentrations are presented in the following tables. Applicable monitoring data is presented in Appendix A.

Surface Emissions Monitoring 1st Qtr 2022 - Areas over 500 ppmv

Initial Monitoring Event					10-Day Remonitoring		1-Month Remonitoring	
Flag Number	Date	Location		CH_4 (ppm_v)	Date	CH_4 (ppm_v)	Date	CH_4 (ppm_v)
		Longitude	Latitude					
41	3/2/22	-118.794695	34.29738102	2700	3/10/22	116	3/31/22	182
1	3/2/22	-118.794776	34.29862297	1000	3/10/22	80	3/31/22	68
2	3/2/22	-118.79543	34.29844603	700	3/10/22	221	3/31/22	356
81	3/3/22	-118.793394	34.29783097	580	3/10/22	44	3/31/22	23
87	3/3/22	-118.79623	34.29903997	3000	3/10/22	300	3/31/22	108
61	3/3/22	-118.796943	34.2986497	2500	3/10/22	191	3/31/22	222
91	3/3/22	-118.792307	34.30078902	500	3/10/22	66	3/31/22	9.
92	3/3/22	-118.793443	34.30015401	600	3/10/22	39	3/31/22	313
93	3/3/22	-118.793893	34.30047797	500	3/10/22	22	3/31/22	56
94	3/3/22	-118.794537	34.30036699	2000	3/10/22	374	3/31/22	484
95	3/3/22	-118.794706	34.30060403	600	3/10/22	294	3/31/22	16
96	3/3/22	-118.794771	34.30072398	1500	3/10/22	164	3/31/22	29
71	3/3/22	-118.797754	34.30047202	2800	3/10/22	394	3/31/22	126
72	3/3/22	-118.796052	34.29686797	516	3/10/22	114	3/31/22	47
73	3/3/22	-118.796924	34.29560398	1280	3/10/22	232	3/31/22	200

Surface Emissions Monitoring 2nd Qtr 2022 - Areas over 500 ppmv

Initial Monitoring Event					10-day Re-monitoring		2nd 10-Day Remonitoring		1-Month Remonitoring	
Flag Number	Date	Location		CH_4 (ppm_v)	Date	CH_4 (ppm_v)	Date	CH_4 (ppm_v)	Date	CH_4 (ppm_v)
		Longitude	Latitude							
61	4/28/22	-118.794695	34.29738102	600	5/6/22	126	N/A	N/A	5/26/22	141
62	4/28/22	-118.794776	34.29862297	520	5/6/22	238	N/A	N/A	5/26/22	366
1	4/28/22	-118.79543	34.29844603	1941	5/6/22	1641	5/13/22	190	5/26/22	481
2	4/28/22	-118.793394	34.29783097	15,850	5/6/22	12233	5/13/22	460	5/26/22	68
3	4/28/22	-118.79623	34.29903997	767	5/6/22	95	N/A	N/A	5/26/22	98

1.6 System Expansion §63.1981(h)(6)

§63.1981(h)(6) The date of installation and the location of each well or collection system expansion added pursuant to §63.1960(a)(3) and (4), (b), and (c)(4).

SVLRC complied with the requirements of §63.1960(a)(3) and (4), (b), and (c)(4).

SVLRC continually looks for ways to optimize the collection system and additional wells or collectors are installed on an as needed basis maintain collection efficiency. The following table summarizes the locations of the wells added to the collection system during the reporting period. Locations of the wells are shown on the GCCS Map included in Appendix B.

Wellfield Expansions to Comply with §63.1960(a)(3) (Pressure Exceedances)

Well ID	Startup Date
N/A, no expansions were required to correct pressure exceedances	

Wellfield Expansions to Comply with §63.1960(a)(4) (Temperature Exceedances)

Well ID	Startup Date
N/A, no expansions were required to correct temperature exceedances	

Wellfield Expansions to Comply with §63.1960(b) (Collection System Coverage)

Well ID	Startup Date
N/A, no expansions were required to increase collection system coverage	

Wellfield Expansions to Comply with §63.1960(c)(4) (Surface Emissions)

Well ID	Startup Date
N/A, no expansions were required to correct surface emissions exceedances	

1.7 Root Cause / Corrective Action Analyses §40 CFR 63.1981(h)(7)

§63.1981(h)(7) For any corrective action analysis for which corrective actions are required in §63.1960(a)(3)(i) or (a)(5) and that take more than 60 days to correct the exceedance, the root cause analysis conducted, including a description of the recommended corrective action(s), the date for corrective action(s) already completed following the positive pressure or high temperature reading, and, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates.

SVLRC complied with the requirements of §63.1960(a)(3)(i) and (a)(5). No root cause or corrective action analyses were required during the reporting period. During the reporting period all wells with positive pressures or temperatures greater than 145°F (or applicable HOV) were corrected within 0 to 60 days.

1.8 Enhanced Monitoring §40 CFR 63.1981(h)(8)

§63.1981(h)(8) Each owner or operator required to conduct enhanced monitoring in §63.1961(a)(5) and (6) must include the results of all monitoring activities conducted during the period.

(i) For each monitoring point, report the date, time, and well identifier along with the value and units of measure for oxygen, temperature (wellhead and downwell), methane, and carbon monoxide.

(ii) Include a summary trend analysis for each well subject to the enhanced monitoring requirements to chart the weekly readings over time for oxygen, wellhead temperature, methane, and weekly or monthly readings over time, as applicable for carbon monoxide.

(iii) Include the date, time, staff person name, and description of findings for each visual observation for subsurface oxidation event.

1.8.1 Enhanced Monitoring for Wellhead Temperature Exceedances §63.1961(a)(5)

The enhanced monitoring requirements of §63.1961(a)(5) for temperature exceedances were not applicable during the reporting period.

1.8.2 Summary Trend Analyses for Wells Subject to Enhanced Monitoring Requirements

No wells were subject to the enhanced monitoring requirements of §63.1961(a)(5) during the reporting period.

1.8.3 Visual Observations for Wells to Enhanced Monitoring Requirements

No wells were subject to the enhanced monitoring requirements of §63.1961(a)(5) during the reporting period.

1.9 Enclosed Combustor Monitoring §63.1983(c)

§63.1983(c) Except as provided in §63.1981(d)(2), each owner or operator of a controlled landfill subject to the provisions of this subpart must keep for 5 years up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in §63.1961 as well as up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded.

(1) The following constitute exceedances that must be recorded and reported under §63.1981(h):

(i) For enclosed combustors except for boilers and process heaters with design heat input capacity of 44 megawatts (150 million Btu per hour) or greater, all 3-hour periods of operation during which the average temperature was more than 28 degrees Celsius (82 degrees Fahrenheit) below the average combustion temperature during the most recent performance test at which compliance with §63.1959(b)(2)(iii) was determined.

(ii) For boilers or process heaters, whenever there is a change in the location at which the vent stream is introduced into the flame zone as required under paragraph (b)(3) of this section.

The SVLRC operated in compliance with all enclosed combustor monitoring standards listed in §63.1983(c) during the reporting period. There were no reportable exceedances under §63.1983(c)(1)(i).

SVLRC operates two enclosed combustors in accordance with the Part 70 Title V Permit No. 01395 and the Temporary Permit to Operate (TPTO) No. 1395-351, issued by the Ventura County Air Pollution Control District (VCAPCD). As required, the enclosed combustors are equipped with thermocouple(s) that serve as the temperature monitoring device(s). The thermocouples send temperature monitoring data to the digital data recorder. Temperature data is continuously monitored and recorded at least once every 15 minutes.

The enclosed combustors are equipped with flow meters which monitor flow to the enclosed combustors. The flow meters send the data to the digital data recorder, which must record flow rate at least once every 15 minutes.

The enclosed flares are subject to a minimum operating temperature of 28°C (50°F) below the average combustion temperature during the most recent source test (3-hr block averages). The following thresholds apply to the enclosed flares during the reporting period:

Applicable 3-hr Block Average Temperature Limits

Flare No. 3

Parameter	June 29, 2021 Source Test Report
Avg. Test Temperature	1,554 °F
3-hr Min Combustion Temperature	1,504°F

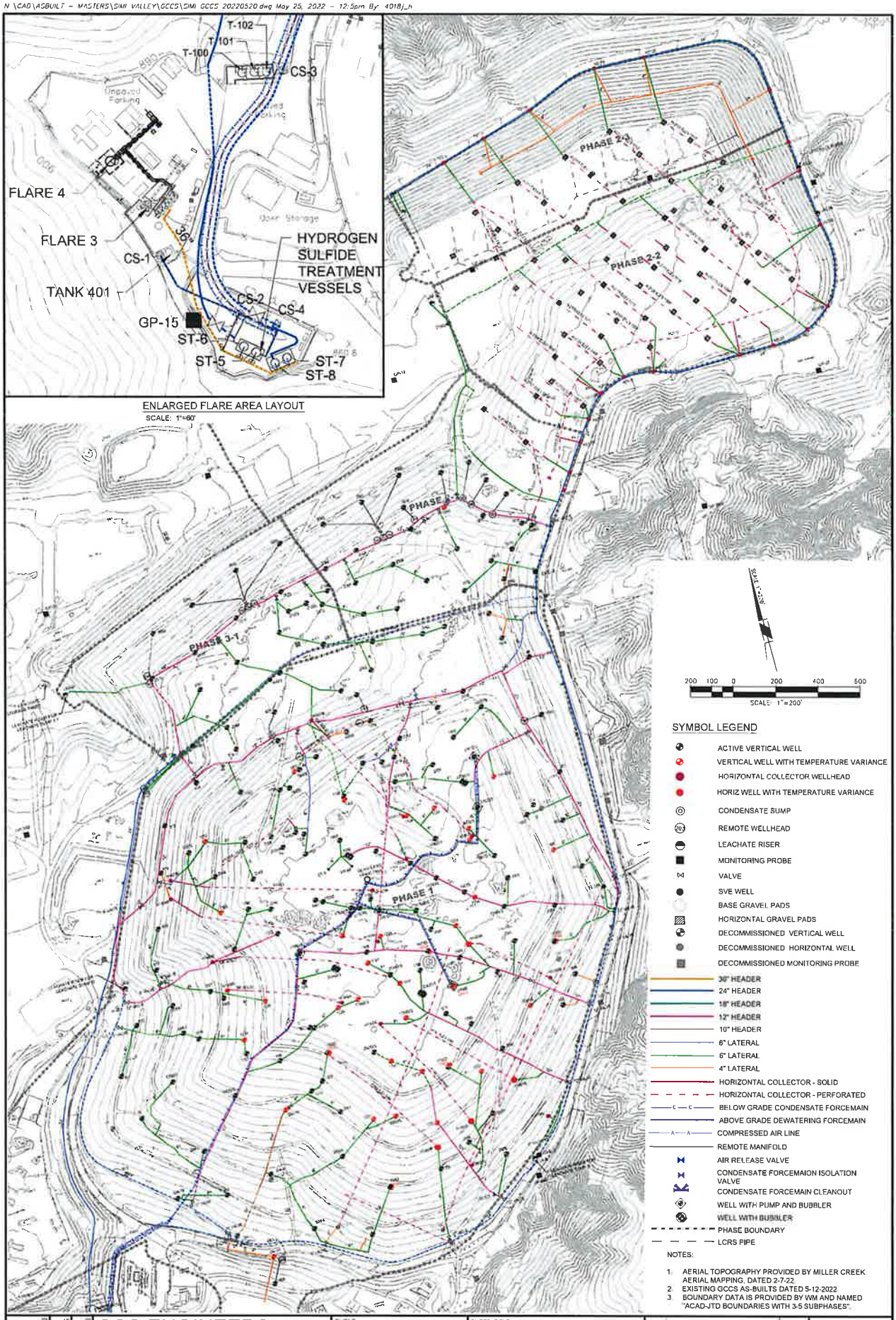
Flare No. 4

Parameter	June 30, 2022 Source Test Report
Avg. Test Temperature	1,514 °F
3-hr Min Combustion Temperature	1,464°F

Appendix A

GCCS MAP

N:\CAD\ASBUILT - MASTERS\SIMI VALLEY\GCCS\SIMI GCCS 20220520.dwg May 25, 2022 - 12:5pm By 4018j_h



SYMBOL LEGEND

- ACTIVE VERTICAL WELL
- VERTICAL WELL WITH TEMPERATURE VARIANCE
- HORIZONTAL COLLECTOR WELLHEAD
- HORIZ WELL WITH TEMPERATURE VARIANCE
- CONDENSATE SUMP
- REMOTE WELLHEAD
- LEACHATE RISER
- MONITORING PROBE
- VALVE
- SVE WELL
- BASE GRAVEL PADS
- HORIZONTAL GRAVEL PADS
- DECOMMISSIONED VERTICAL WELL
- DECOMMISSIONED HORIZONTAL WELL
- DECOMMISSIONED MONITORING PROBE
- 30" HEADER
- 24" HEADER
- 18" HEADER
- 12" HEADER
- 10" HEADER
- 8" LATERAL
- 6" LATERAL
- 4" LATERAL
- HORIZONTAL COLLECTOR - SOLID
- HORIZONTAL COLLECTOR - PERFORATED
- BELOW GRADE CONDENSATE FORCEMAIN
- ABOVE GRADE DEWATERING FORCEMAIN
- COMPRESSED AIR LINE
- REMOTE MANIFOLD
- AIR RELEASE VALVE
- CONDENSATE FORCEMAION ISOLATION VALVE
- CONDENSATE FORCEMAIN CLEANOUT
- WELL WITH PUMP AND BUBBLER
- WELL WITH BUBBLER
- PHASE BOUNDARY
- LCRS PIPE

NOTES:

1. AERIAL TOPOGRAPHY PROVIDED BY MILLER CREEK AERIAL MAPPING, DATED 2-7-22.
2. EXISTING GCCS AS-BUILTS DATED 5-12-2022.
3. BOUNDARY DATA IS PROVIDED BY WM AND NAMED "ACAD-JTD BOUNDARIES WITH 3-5 SUBPHASES".

DRAWING NO. 2 of 3

SCALE: AS SHOWN

DATE: 05-25-2022

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CA 90806
PH (562) 426-9544 FAX (562) 427-0805

CLIENT: WM WASTE MANAGEMENT

SHEET TITLE: GCCS AND DEWATER LAYOUT

PROJECT TITLE: SIMI VALLEY LANDFILL AND RECYCLING CENTER
2801 MADERA ROAD
SIMI VALLEY, CALIFORNIA 93065

NO	REVISION	DATE

Appendix B

SEM DATA

WASTE MANAGEMENT

172 98th Avenue
Oakland, CA 94603
(510) 430-8509

April 29, 2022

Mr. Mark Grady
2801 Madera Road
Simi Valley, California 93065

First Quarter 2022 Surface Emissions and Component Leak Monitoring Report for the Simi Valley Landfill and Recycling Center

Dear Mr. Tignac:

This monitoring report for the **"Simi Valley Landfill and Recycling Center (SVLRC)"** contains the results of the First Quarter 2022 Integrated and Instantaneous Surface Emissions Monitoring (SEM) and Component Leak Monitoring. Initial surface emissions monitoring was performed by Roberts Environmental Services, LLC. (RES). Re-monitoring of site-wide surface emissions and component leak monitoring was also conducted by RES personnel.

APPLICABLE REQUIREMENTS

The monitoring discussed in this report was conducted in accordance with the following requirements:

Surface Emission Monitoring (SEM)

- California Code of Regulations (CCR) Title 17, Subchapter 10, Article 4, Subarticle 6, §95460 to §95476, known as the Assembly Bill 32 (AB32) landfill methane rule (LMR).
- New Source Performance Standard (NSPS), Title 40 of the Code of Federal Regulations (CFR) §60.755 (c) and (d), 40 CFR 60, Appendix A Method 21; and updated Title 40 CFR part 63, Subpart AAAA (63.1960), promulgated by the United States Environmental Protection Agency (USEPA).
- Ventura County Air Pollution Control District (VCAPCD) Rule 74.17.1 (Municipal Solid Waste Landfills)

Component Leak

- California Code of Regulations (CCR) Title 17, Subchapter 10, Article 4, Subarticle 6, §95460 to §95476, known as the Assembly Bill 32 (AB32) landfill methane rule (LMR).

SVLRC Plan and Alternative Compliance Measures

An Alternative Compliance Option (ACO) Request was submitted to the California Air Resources Board (CARB) on May 24, 2011. A response from the CARB was not received to the ACO Request within 120 days from the date of submittal, therefore SVLRC assumes that the alternative compliance measures, monitoring requirements, and test measures and procedures were deemed acceptable as of September 21, 2011, per CCR Title 17 §95468(c).

All monitoring and reporting was completed in accordance with the 2011 SVLRC AB-32 SEM Plan.

PROCEDURES

General

The surface of the SVLRC disposal area has been divided into one-hundred eighty-five (185), (approximately) 50,000 square foot monitoring grids. The entire landfill surface is monitored with the exception of active portions of the Landfill, slope areas, and as requested in the approved ACO, areas containing only asbestos-containing waste, inert waste and/or non-decomposable waste which are excluded for safety as allowed by CCR Title 17 §95466.

Field personnel walked the surface of the landfill following the walking pattern as depicted the 2011 SVLRC AB-32 SEM Plan, which traverses each monitoring grid. Additionally, in accordance with the provisions of 40 CFR 60.753(d) and 60.755(c)(1-3) and 63.1960, the entire perimeter of the landfill surface was monitored. During the event, special attention was given to monitoring unusual cover conditions (stressed vegetation, cracks, seeps, etc.) and any areas with unusual odors. In addition, penetrations were monitoring per Title 40 CFR part 63, Subpart AAAA (63.1960).

Instantaneous Surface Emissions Monitoring

The Instantaneous SEM was conducted using a Toxic Vapor Analyzer (TVA) 1000 flame ionization detector (FID), which was calibrated to 500 parts per million by volume (ppmv) methane, which meets or exceeds all guidelines set forth in the CCR Title 17 §95471(a). The FID was calibrated prior to use in accordance with the United States Environmental Protection Agency (USEPA) Method 21 requirements. The Instantaneous SEM procedures followed the requirements of 40 CFR 60.755 (c) and (d), CCR Title 17 §95471(c)(2), VCAPCD Rule 74.1.7, and 40 CFR part 63, Subpart AAAA 63.1960.

RES personnel walked the surface of the landfill on a grid-by-grid basis with the wand tip held at 3 inches from the landfill surface. While sampling the grid, the technicians also checked any surface impoundments (wells or otherwise) for leaks. Technicians also checked any surface cracks, seeps, or other areas that show evidence of surface emissions (odors or distressed vegetation). Active and sloped areas excluded for safety were documented on field data sheets and maps.

All instantaneous surface monitoring was performed in accordance with the applicable requirements referenced in this report. Any detections of methane above 200 ppmv (areas of concern) or 500 ppmv (exceedances) for instantaneous were recorded, flagged, and marked on an SEM Map, which, wherever required, is included in the Attachments of this report. Applicable corrective action and re-monitoring timelines are listed below:

- Re-monitoring shall be conducted within 10 days of the initial exceedance.
    - If the re-monitoring event shows the exceedance is corrected, the location shall be re-monitored within 1 month of the initial exceedance.
    - If the 1-month re-monitoring event shows the location is still corrected, all re-monitoring requirements have been completed.
- If either the first 10-day or 1-month re-monitoring events show a second exceedance, additional corrective actions shall be completed and a second re-monitoring event shall be conducted within 10 days of the second exceedance.
- If the second 10-day re-monitoring event shows the second exceedance is corrected, the location shall be re-monitored within 1 month of the initial exceedance. If the 1-month re-monitoring event shows the area is still corrected, monitoring requirements have been completed.
- If any location shows three exceedances, an additional well shall be installed within 120 days of the initial exceedance.

Integrated Surface Emissions Monitoring

The Integrated surface monitoring was conducted using a TVA 1000 calibrated to 25 ppmv for the integrated monitoring, which meets or exceeds all guidelines set forth in the CCR Title 17 §95471(a). The field technician traversed the grid walking path over a continuous 25-minute period using the TVA 1000 held at 3 inches above the landfill surface. The Integrated monitoring procedures followed the requirements of CCR Title 17 §95471(c)(2).

Grids with results greater than 25 ppmv were recorded, marked on the SEM map, and flagged for remediation. Any grids with integrated concentrations greater than 25 ppmv are subject to the following corrective action and re-monitoring timeline:

- Re-monitoring shall be conducted within 10 days of the initial exceedance.
- If the 10-day re-monitoring event shows the exceedance is corrected, all re-monitoring requirements have been completed.

- If either the first 10-day re-monitoring event shows a second grid exceedance, additional corrective actions shall be completed and a second re-monitoring event shall be conducted within 10 days of the second exceedance.

- If the second 10-day re-monitoring event shows the second exceedance is corrected, all re-monitoring requirements have been completed.

- If the second 10-day re-monitoring event shows a third grid exceedance, an additional well shall be installed within 120 days of the initial exceedance.

Component Leak Monitoring Procedures

RES personnel monitored the exposed LFG components under positive pressure (pipes, wellheads, valves, blowers, and other mechanical appurtenances) using a TVA 1000 calibrated to 500 ppmv. All leaks measured one half inch or less from the component exceeding the compliance limit of 500 ppmv per requirements outlined in pursuant to CARB Title 17 of California Code of Regulations Subchapter 10, Article 4, Subarticle 6, Section 95464(b)(1)(B) were recorded. Applicable corrective action and re-monitoring timelines are listed below:

- Leaks at or above 500 ppmv must be corrected and re-monitored within 10 days of the initial exceedance.

FIRST QUARTER SEM AND COMPONENT LEAK RESULTS

The following is a summary of the SEM and Component leak monitoring results completed during the First Quarter 2022.

Instantaneous Surface Emission Monitoring Results

The Instantaneous surface monitoring was performed on March 2 & 3, 2022, in accordance with the NSPS NESHAP, Rule 74.1.17, CCR Title 17 §95469 and ACO. Results and data from the monitoring are presented in Attachment A.

Initial Monitoring Event Exceedances of 500 ppmv

There were fifteen (15) exceedances of 500 ppmv as methane detected during the initial monitoring events conducted on March 2 & 3, 2022. RES personnel remediated the locations, and the following re-monitoring was conducted as described below.

First Ten-Day Re-Monitoring Results

RES personnel performed the first ten-day re-monitoring events on March 10, 2022. No exceedances were observed during the first ten-day re-monitoring event.

Thirty-Day Re-Monitoring Results

RES personnel performed the thirty-day monitoring event on March 31, 2022. No exceedances were observed during the thirty-day re-monitoring event.

Readings between 200 ppmv and 499 ppmv (Initial and Re-monitored)

There were zero (0) readings between 200 ppmv and 499 ppmv, measured as methane detected during the initial monitoring event on March 2 & 3, 2022. Pursuant to CCR Title 17 §95471(c), instantaneous surface emissions exceeding 200 ppmv but below 500 ppmv are required to be recorded.

Integrated Surface Emissions Monitoring Results

The Integrated surface sampling (ISS) was performed on March 3, 9, 10 & 25, 2022, in accordance with the ACO, requirements outlined in CCR Title 17 §95469, and VCAPCD Rule 74.1.17. See Attachment B for details.

Initial Monitoring Event Exceedances of 25 ppmv

There were seven (7) grids with an exceedance above 25 ppmv as methane detected during the initial monitoring events conducted on March 10, 2022. RES personnel remediated the locations, and the following re-monitoring was conducted as described below.

Ten-Day Re-Monitoring Results

RES personnel performed the ten-day re-monitoring event on March 18, 2022. No exceedances were observed during the ten-day re-monitoring event.

The average methane concentration of each grid was recorded during the monitoring event per applicable requirements. See Attachment B for details.

Component Leak Monitoring Results

Component leak monitoring was conducted per the applicable requirements on March 2, 2022. There were zero (0) locations with a component leak detection of greater than 500 ppmv. See Attachment C for details.

WEATHER CONDITIONS

Wind Speed Conductions during the Surface Emission Monitoring Events

Wind speeds during initial monitoring were monitored using a portable weather station. The station has a strip chart that records the wind speed and direction. After completion of monitoring, the strip chart is reviewed by RES office staff to determine the average and maximum wind speeds during the monitoring and the average wind direction during each grid and ensure that the wind speed requirements are met (no gusts greater than 20 mph, average wind speed cannot exceed 10 mph). These values are documented in the field data sheets. The chart data is scanned and included in Attachment D.

Precipitation Requirements

Per the SVLRC's ACO, the initial monitoring event was carefully scheduled so that it could be conducted in compliance with the precipitation requirements (no measurable precipitation within 24 hours). Re-monitoring events are required to adhere to strict timelines. Any conflicts with precipitation requirements are discussed in the results section of this document.

EQUIPMENT CALIBRATION

The portable analyzers were calibrated to meet the instrument specifications requirements of U.S. EPA Method 21. The calibration gas used was methane, diluted to a nominal concentration of 25 ppmv in air for integrated sample analyses and 500 ppmv in air for instantaneous monitoring to comply with the requirements.

All analyzers were calibrated prior to use with required response time and precision related instrument checks. Calibration records include the following: One time response time test record; One time response factor determination for methane; Calibration Precision test records (test to be performed every 3 months); and Daily Instrument Calibration and Background test records for

each gas meter that was used during the quarterly monitoring event. The calibration log records are included in Attachment E.

All monitoring was completed in accordance with the applicable regulatory requirements or approved alternatives. If you have any questions regarding this report, please do not hesitate to contact the undersigned at (510) 714-6098.

Thank you,
Waste Management

Collin Pavelchik

Collin Pavelchik
Environmental Protection Air Quality Specialist

Attachment A – Instantaneous Surface Emission Monitoring Event Records

- Monitoring Logs and Exceedances
- Surface Monitoring Weather Data
- SEM Map

Attachment B – Integrated Surface Emission Monitoring Event Records

- Monitoring Logs and Exceedances
- Surface Monitoring Weather Data
- SEM Map

Attachment C – Component Leak Monitoring Event Records

- Component Leak Exceedances and Monitoring Logs

Attachment D – Weather Station Data

- Strip Chart Data and Legend

Attachment E – Calibration Records

- Instrument and Gas Calibration Records

Attachment A

Instantaneous Surface Emission Monitoring Event Records

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: S. Hershey, O. Peralta, G. Robles, S. Pope, J. Lowyon, E. Ramirez

Cal. Gas Exp. Date: 4-19-23

Date: 3.2.22 Instrument Used: TVA 1000 Grid Spacing: 25'

Temperature: 70° Precip: 0 Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
1	SH	0815	0830	5	3	5	14	
2	OP	0815	0830	3	3	5	14	
3	GR	0815	0830	8	3	5	14	
4	SP	0815	0830	9	3	5	14	
5	JL	0815	0830	6	3	5	14	
6	ER	0815	0830	6	3	5	14	
7	SH	0830	0845	4	2	3	14	
8	OP	0830	0845	2	2	3	14	
9	GR	0830	0845	7	2	3	14	
10	SP	0830	0845	5	2	3	14	
11	JL	0830	0845	6	2	3	14	
12	ER	0830	0845	4	2	3	14	
13	SH	0845	0900	3	3	5	14	
14	OP	0845	0900	2	3	5	14	
15	GR	0845	0900	5	3	5	14	
16	SP	0845	0900	3	3	5	14	
17	JL	0845	0900	4	3	5	14	
18	ER	0845	0900	2	3	5	14	
19	SH	0900	0915	7	3	5	13	
20	OP	0900	0915	6	3	5	13	
21	GR	0900	0915	6	3	5	13	
22	SP	0900	0915	7	3	5	13	
23	JL	0900	0915	8	3	5	13	
24	ER	0900	0915	7	3	5	13	
25	SH	0915	0930	10	2	4	3	
26	OP	0915	0930	8	2	4	3	
27	GR	0915	0930	4	2	4	3	
28	SP	0915	0930	3	2	4	3	
29	JL	0915	0930	5	2	4	3	
30	ER	0915	0930	9	2	4	3	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: S. Hershey, S. Pope, O. Peralta, J. Loyola, G. Robles, E. Ramirez

Cal. Gas Exp. Date: 1-19-23

Date: 5-2-22 Instrument Used: TVA 1000 Grid Spacing: 25

Temperature: 75° Precip: 0 Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
31	SH	0930	0945	10	1	2	6	
32	OP	0930	0945	8	1	2	6	
33	GR	0930	0945	9	1	2	6	
34	SP	0930	0945	4	1	2	6	
35	JL	0930	0945	5	1	2	6	
36	ER	0930	0945	4	1	2	6	
37	SH	0945	1000	8	2	4	6	
38	OP	0945	1000	7	2	4	6	
39	GR	0945	1000	10	2	4	6	
40	SP	0945	1000	11	2	4	6	
41	JL	0945	1000	6	2	4	6	
42	ER	0945	1000	14	2	4	6	
43	SH	1000	1015	5	2	3	5	
44	OP	1000	1015	5	2	3	5	
45	GR	1000	1015	12	2	3	5	
46	SP	1000	1015	8	2	3	5	
47	JL	1000	1015	7	2	3	5	
48	ER	1000	1015	5	2	3	5	
49	SH	1015	1030	6	0	1	12	
50	OP	1015	1030	10	0	1	12	
51	GR	1015	1030	5	0	1	12	
52	SP	1015	1030	8	0	1	12	
53	JL	1015	1030	4	0	1	12	
54	ER	1015	1030	12	0	1	12	
55	SH	1030	1045	15	4	7	7	
56	OP	1030	1045	8	4	7	7	
57	GR	1030	1045	9	4	7	7	
58	SP	1030	1045	8	4	7	7	
59	JL	1030	1045	5	4	7	7	
60	ER	1030	1045	5	4	7	7	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: S. Hershey, O. Peralta, G. Robles, S. Pope, J. Loyoza, E. Ramirez

Cal. Gas Exp. Date: 1-19-23

Date: 3-2-22 Instrument Used: TVA 1000 Grid Spacing: 25'

Temperature: 75° Precip: 0 Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
61	SH	1045	1100	8	4	7	7	
62	OP	1045	1100	7	4	7	7	
63	GR	1045	1100	5	4	7	7	
64	SP	1045	1100	6	4	7	7	
65	JL	1045	1100	4	4	7	7	
66	ER	1045	1100	2	4	7	7	
67	SH	1200	1215	2	5	6	6	
68	OP	1200	1215	5	5	6	6	
69	GR	1200	1215	8	5	6	6	
70	SP	1200	1215	9	5	6	6	
71	JL	1200	1215	4	5	6	6	
72	ER	1200	1215	2	5	6	6	
73	SH	1215	1230	5	5	7	6	
74	OP	1215	1230	3	5	7	6	
75	GR	1215	1230	8	5	7	6	
76	SP	1215	1230	7	5	7	6	
77	JL	1215	1230	8	5	7	6	
78	ER	1215	1230	12	5	7	6	
79	SH	1230	1245	6	5	7	6	
80	OP	1230	1245	4	5	7	6	
81	GR	1230	1245	4	5	7	6	
82	SP	1230	1245	1000	5	7	6	GW 20615
83	JL	1230	1245	10	5	7	6	
84	ER	1230	1245	15	5	7	6	
85	SH	1245	1300	21	6	6	6	
86	OP	1245	1300	18	6	6	6	
87	GR	1245	1300	15	6	6	6	
88	SP	1245	1300	2700	6	6	6	well 1403
89	JL	1245	1300	11	6	6	6	
90	ER	1245	1300	13	6	6	6	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: S. Hershey, S. Pope, O. Peralta, I. Loyola, G. Robles, E. Ramirez

Cal. Gas Exp. Date: 1-18-23

Date: 3-2-22 Instrument Used: TVA-1000 Grid Spacing: 25'

Temperature: 85° Precip: 0 Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
91	SH	1300	1315	6	6	10	S	
92	DP	1300	1315	6	6	10	S	
93	GR	1300	1315	4	6	10	S	
94	SP	1300	1315	2	6	10	S	
95	JL	1300	1315	7	6	10	S	
96	ER	1300	1315	4	6	10	S	
97	SH	1315	1330	6	6	10	S	
98	DP	1315	1330	3	6	10	S	
99	GR	1315	1330	8	6	10	S	
100	SP	1315	1330	12	6	10	S	
101	JL	1315	1330	9	6	10	S	
102	ER	1315	1330	11	6	10	S	
103	SH	1330	1345	13	5	7	7	
104	DP	1330	1345	7	5	7	7	
105	GR	1330	1345	700	5	7	7	GW1235A
106	SP	1330	1345	15	5	7	7	
107	JL	1330	1345	8	5	7	7	
108	ER	1330	1345	3	5	7	7	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: S. Hershey, S. Pope, O. Peralta, J. Lo Yacono, G. Robles, E. Ramirez

Cal. Gas Exp. Date: 1-18-23

Date: 3-3-22 Instrument Used: TVA1000 Grid Spacing: 25

Temperature: 60° Precip: 0 Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
109	SH	0800	0815	10	4	4	16	
110	OP	0800	0815	3000	4	4	16	18245
111	GR	0800	0815	8	4	4	16	
112	SP	0800	0815	7	4	4	16	
113	JL	0800	0815	9	4	4	16	
114	ER	0800	0815	6	4	4	16	
115	SH	0815	0830	6	4	5	1	
116	OP	0815	0830	5	4	5	1	
117	GR	0815	0830	3	4	5	1	
118	SP	0815	0830	9	4	5	1	
119	JL	0815	0830	2500	4	5	1	14013
120	ER	0815	0830	10	4	5	1	
121	SH	0830	0845	15	5	6	1	
122	OP	0830	0845	8	5	6	1	
123	GR	0830	0845	7	5	6	1	
124	SP	0830	0845	7	5	6	1	
125	JL	0830	0845	5	5	6	1	
126	ER	0830	0845	3	5	6	1	
127	SH	0845	0900	2800	4	5	16	Surface
128	OP	0845	0900	516	4	5	16	2096
129	GR	0845	0900	1780	4	5	16	2095
130	SP	0845	0900	10	4	5	16	
131	JL	0845	0900	280	4	5	16	Surface
132	ER	0845	0900	15	4	5	16	
133	SH	0900	0915	8	4	5	16	
134	OP	0900	0915	500	4	5	16	Surface
144	GR	0900	0915	19	4	5	16	
145	SP	0900	0915	6	4	5	16	
146	JL	0900	0915	8	4	5	16	
147	ER	0900	0915	7	4	5	16	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: S. Hershey, S. Popa, D. Peralta, J. Lujano, M. Robles, E. Ramirez

Cal. Gas Exp. Date: 1-19-23

Date: 3-3-22 Instrument Used: TVA 1000 Grid Spacing: 25'

Temperature: 65° Precip: 0 Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
148	SH	0915	0930	3	4	5	16	
149	OP	0915	0930	5	4	5	16	
150	GR	0915	0930	4	4	5	16	
151	SP	0915	0930	6	4	5	16	
152	JL	0915	0930	5	4	5	16	
153	ER	0915	0930	2	4	5	16	
154	SH	0930	0945	5	0	1	14	
155	OP	0930	0945	8	0	1	14	
156	GR	0930	0945	7	0	1	14	
157	SP	0930	0945	4	0	1	14	
158	JL	0930	0945	3	0	1	14	
159	ER	0930	0945	9	0	1	14	
160	SH	0945	1000	6	3	4	1	
161	OP	0945	1000	8	3	4	1	
136	GR	0945	1000	7800	3	4	1	surface, 2002, 2087
135	SP	0945	1000	600	3	4	1	surface

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: S. Hershey _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 3 3 22 Instrument Used: Active Trash / Dumping Grid Spacing: _____

Temperature: _____ Precip: _____ Upwind BG: _____ Downwind BG: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
								Active Trash /
137								Dumping
138								
139								
140								
141								
142								
143								
162								
163								
164								
165								
166								
167								
168								
169								
170								
171								
172								
173								
174								
175								
176								
177								
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179								
180								
181								
182								
183								

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: J. Hershey _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 3-3-22 Instrument Used: Active Trash / Dumping Grid Spacing: _____

Temperature: _____ Precip: _____ Upwind BG: _____ Downwind BG: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
184.								Active Trash /
185								Dumping

Attach Calibration Sheet
Attach site map showing grid ID

Page 2 of 2

Waste Management Instantaneous Landfill Surface Emissions Monitoring
Exceedance and Monitoring Logs

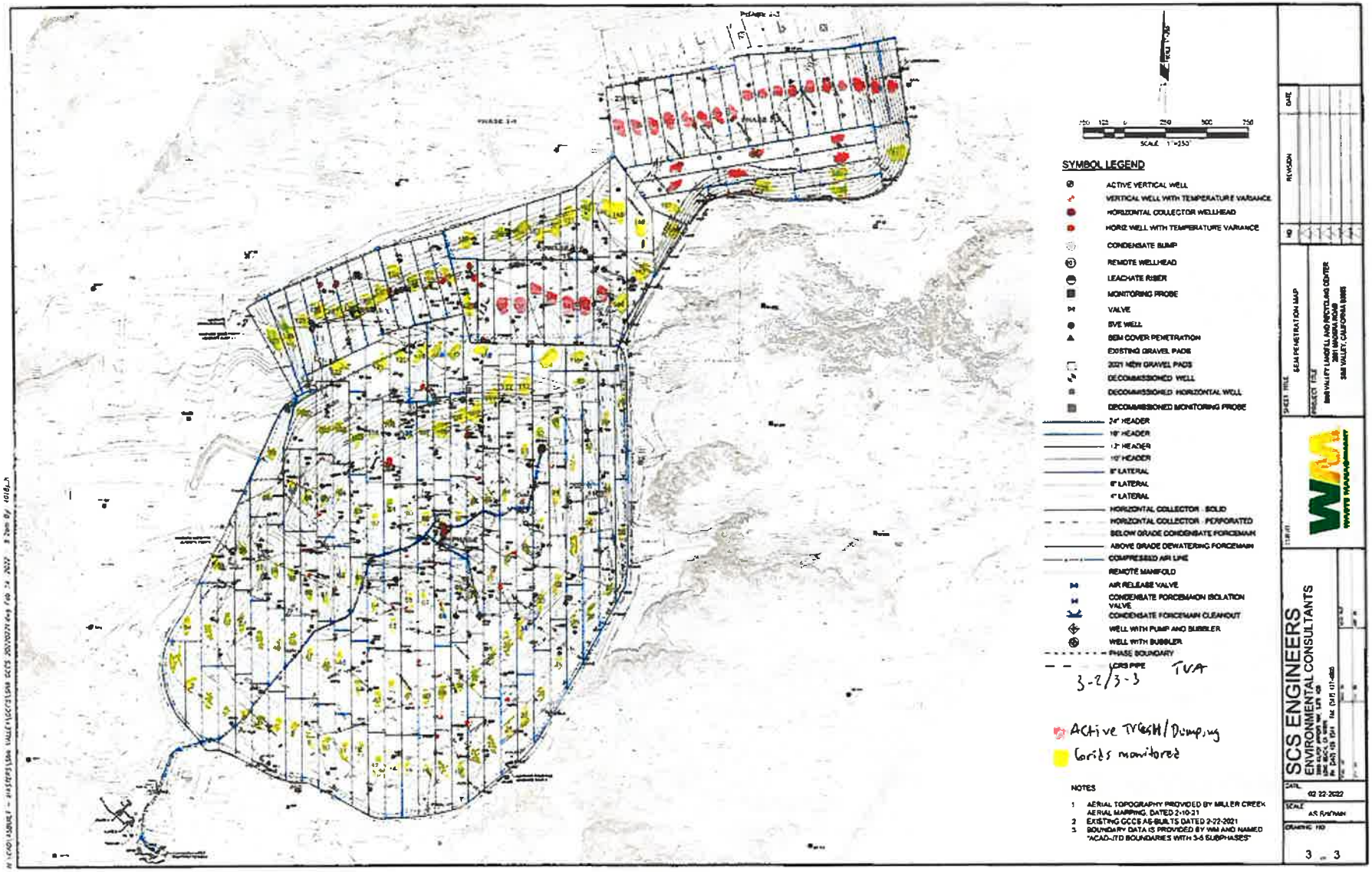
Quarter: 1st QTR 2022

Initial Monitoring Performed By: Shawn Hershey

Follow-up Monitoring Performed By: Jamaica Ando

Landfill Name: Simi Valley

Initial Monitoring Event				Corrective Action within 5 Days		1st 10-Day Follow-Up			1st 30-Day Follow-Up			Comments
Grid #	Flag #	Monitoring Date	Field Reading	Repair Date	Action taken to repair Exceedance	Monitoring Date	No Exceed. <500 ppm	Exceed. >500 ppm	Monitoring Date	No Exceed. <500 ppm	Exceed. >500 ppm	
88	Y41	3-2-22	2700			3-10-22	116		3-31-22	182		well 1403
82	Y1	↓	1000			↓	80.44		↓	68		GW 20615
105	Y2	↓	700				221			356		GW 1255A
131	Y81	3-3-22	280				44.81			73		Surface
110	Y81	↓	3000				300			108		19295
119	Y61		2500				191			222		14015
134	Y91		500				16.04			93		Surface
136	Y92		600				39.04			313		2002
135	Y93		500				22.09			56		Surface
136	Y94		7000				324			484		2087
135	Y95		600				294			16		Surface
136	Y96		1500				164			29		Surface
127	Y71		2900				394			126		2096
128	Y72		516				114			47		2095
129	Y73	↓	1780			↓	232		↓	200		Surface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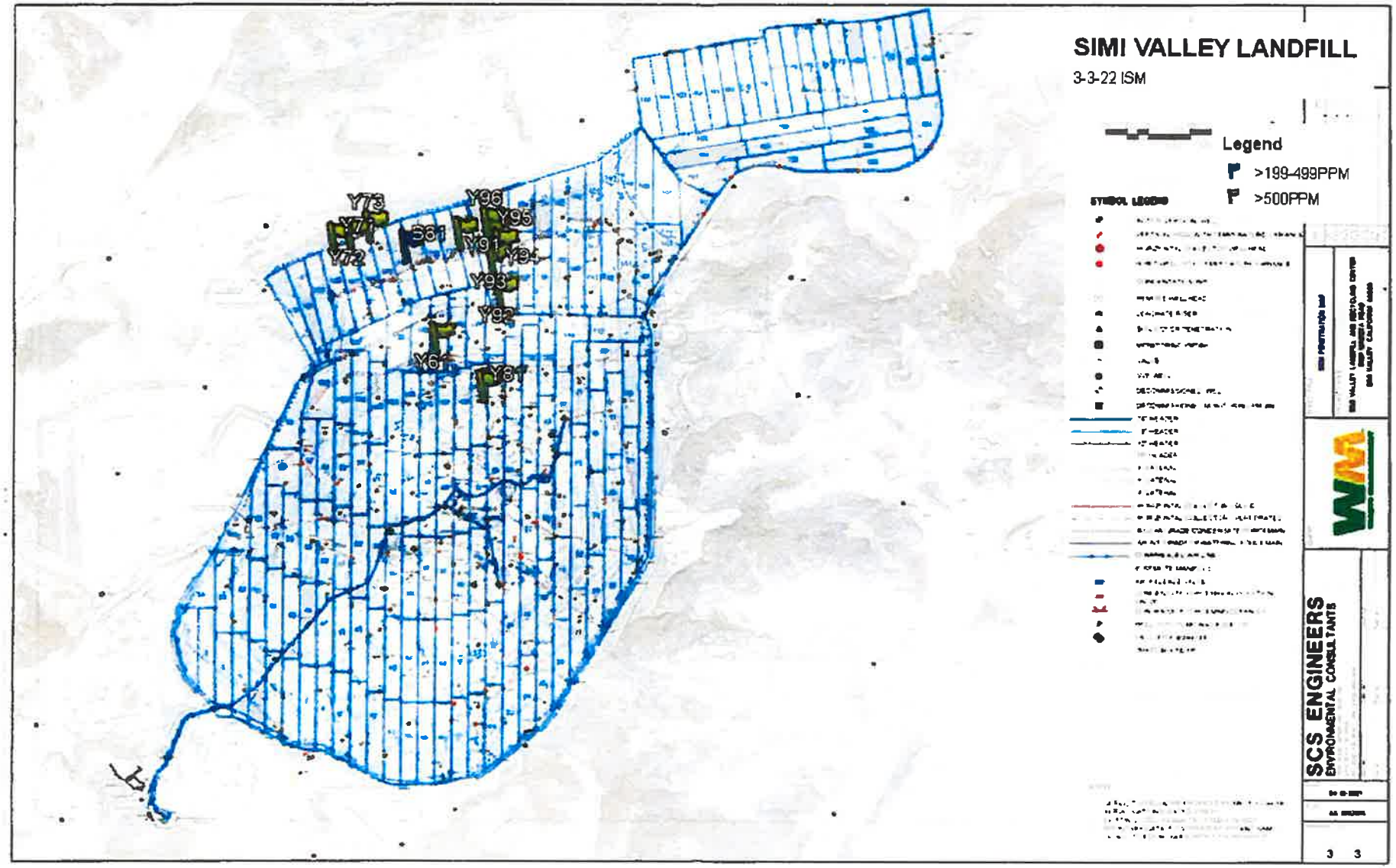
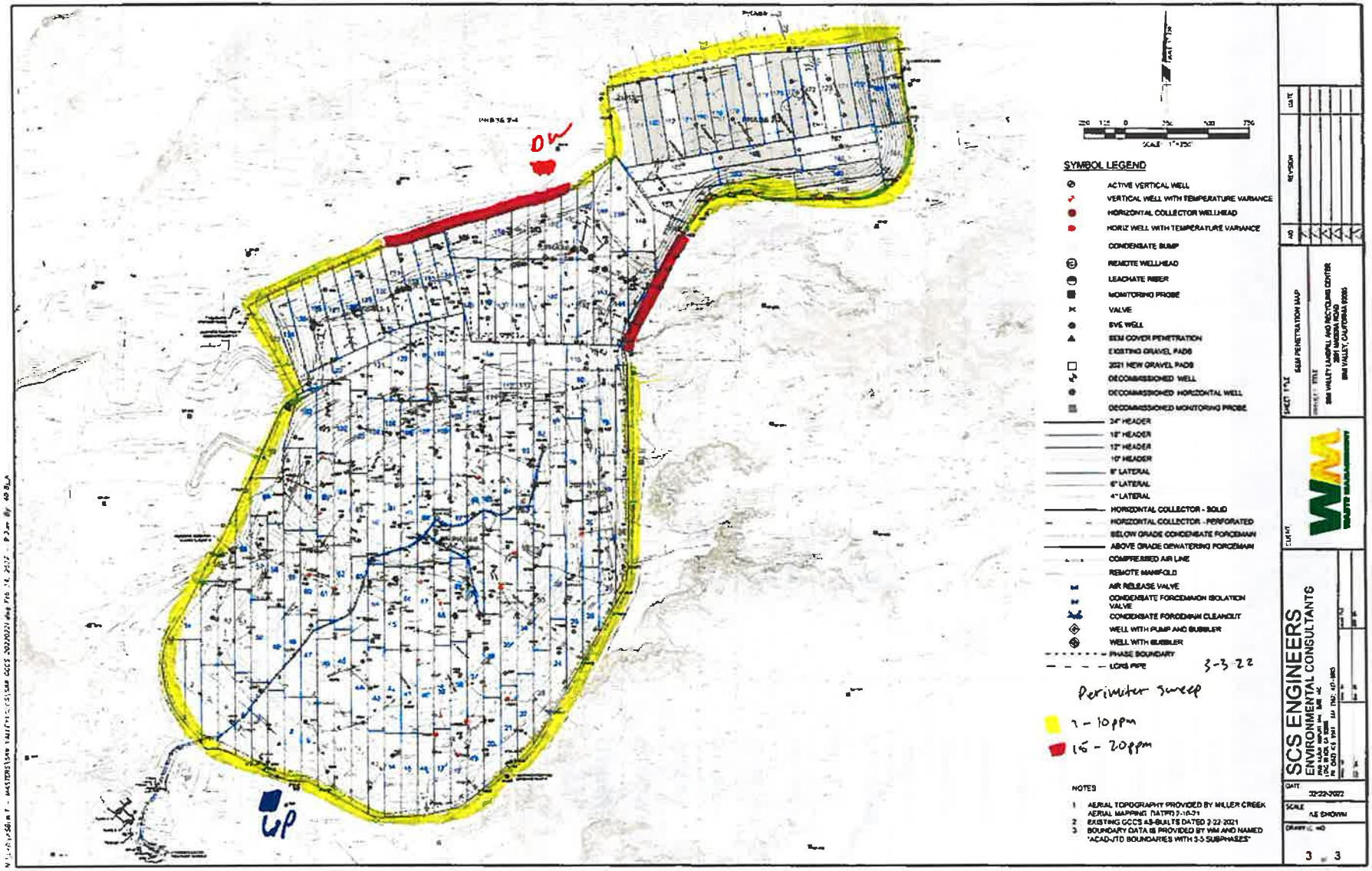
ACTIVE VERTICAL WELL
VERTICAL WELL WITH TEMPERATURE VARIANCE
HORIZONTAL COLLECTOR WELLHEAD
HORIZ WELL WITH TEMPERATURE VARIANCE
CONDENSATE BUMP
REMOTE WELLHEAD
LEACHATE RISER
MONITORING PROBE
VALVE
SVE WELL
SEM COVER PENETRATION
EXISTING GRAVEL PADS
2021 NEW GRAVEL PADS
DECOMMISSIONED WELL
DECOMMISSIONED HORIZONTAL WELL
DECOMMISSIONED MONITORING PROBE
24" HEADER
18" HEADER
12" HEADER
10" HEADER
8" LATERAL
6" LATERAL
4" LATERAL
HORIZONTAL COLLECTOR - SOLID
HORIZONTAL COLLECTOR - PERFORATED
BELOW GRADE CONDENSATE FORCEMAIN
ABOVE GRADE DEWATERING FORCEMAIN
COMPRESSED AIR LINE
REMOTE MANIFOLD
AIR RELEASE VALVE
CONDENSATE FORCEMAIN ISOLATION VALVE
CONDENSATE FORCEMAIN CLEANOUT
WELL WITH PUMP AND BUBBLER
WELL WITH BUBBLER
PHASE BOUNDARY
LCRS PIPE
TVA
3-2/3-3
Active Trash/Dumping
Grids monitored
NOTES
1 AERIAL TOPOGRAPHY PROVIDED BY MILLER CREEK AERIAL MAPPING, DATED 2-10-21
2 EXISTING GCCS AS-BUILTS DATED 2-22-2021
3 BOUNDARY DATA IS PROVIDED BY WM AND NAMED "ACAD-ITD BOUNDARIES WITH 3-5 SUBPHASES"
SCALE 1"=250'
SHEET TITLE
SEM PENETRATION MAP
PROJECT TITLE
SAN VALLEY LANDFILL AND RECYCLING CENTER
2001 MADERA ROAD
SAN MARTIN, CALIFORNIA 95046
REVISION
DATE
SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
DATE 02-22-2022
SCALE AS SHOWN
DRAWING NO
3 _ 3


SIMI VALLEY LANDFILL
3-3-22 ISM
Legend
>199-499PPM
>500PPM
SYMBOL LEGEND
Y73
Y96
Y95
Y71
Y72
S81
Y91
Y94
Y93
Y92
Y64
Y81
SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3 3


SYMBOL LEGEND
ACTIVE VERTICAL WELL
VERTICAL WELL WITH TEMPERATURE VARIANCE
HORIZONTAL COLLECTOR WELLHEAD
HORIZ WELL WITH TEMPERATURE VARIANCE
CONDENSATE SUMP
REMOTE WELLHEAD
LEACHATE RISER
MONITORING PROBE
VALVE
SVE WELL
SEM COVER PENETRATION
EXISTING GRAVEL PADS
2021 NEW GRAVEL PADS
DECOMMISSIONED WELL
DECOMMISSIONED HORIZONTAL WELL
DECOMMISSIONED MONITORING PROBE
24" HEADER
18" HEADER
12" HEADER
10" HEADER
8" LATERAL
6" LATERAL
4" LATERAL
HORIZONTAL COLLECTOR - SOLID
HORIZONTAL COLLECTOR - PERFORATED
BELOW GRADE CONDENSATE FORCEMAIN
ABOVE GRADE DEWATERING FORCEMAIN
COMPRESSED AIR LINE
REMOTE MANIFOLD
AIR RELEASE VALVE
CONDENSATE FORCEMAIN ISOLATION VALVE
CONDENSATE FORCEMAIN CLEANOUT
WELL WITH PUMP AND BUBBLER
WELL WITH BUBBLER
PHASE BOUNDARY
LCRS PIPE
3-3-22
Perimeter sweep
7 - 10 ppm
16 - 20 ppm
NOTES
1 AERIAL TOPOGRAPHY PROVIDED BY MILLER CREEK AERIAL MAPPING (MTP) 7-10-21
2 EXISTING GCCS AS-BUILTS DATED 2-22-2021
3 BOUNDARY DATA IS PROVIDED BY WM AND NAMED "ACAD-JTD BOUNDARIES WITH 3-5 SUBPHASES"
DW
UP
SHEET TITLE
GEM PENETRATION MAP
PROJECT TITLE
2880 WALNUT CANYON LANDFILL AND RECYCLING CENTER
2891 MESERA ROAD
SIMI VALLEY, CALIFORNIA 93065
SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
DATE
02-22-2022
SCALE
AS SHOWN
3 of 3

SIMI VALLEY SEM MONITORING **DATE:___3-2-22 / 3-3-22_____**

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIMW0019	4	3		
SIMW0001	6	3		
SIMW0002	6	4		
SIMW0808	7	2		
SIMW0020	8	5		
SIMW1808	8	1		
SIMW0004	9	1		
SIMW0006	10	2		
SIMH021S	11	1		
SIMW1015	13	3		
SIMW709D	14	2		
SIMW709S	14	3		
SIMH0017	16	3		
SIMH018S	16	4		
SIH1363B	17	2		
SIMW0708	17	2		
SIMW2006	18	1		
SIMH022S	19	2		
SIMW2007	20	1		
SIMW2008	20	1		
SIH1361B	21	1		
SIMSVE02	21	3		
SIMLR00B	21	2		
SIMH016N	22	2		
SIH1359B	24	4		
SIMI0905	24	3		
SIMI0904	25	5		
SIMH022N	27	2		
SIMI0903	27	4		
SIMI0901	29	3		

SIMI VALLEY SEM MONITORING

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIMI0902	30	1		
SIMW115S	30	5		
SIMW116R	31	2		
SIMW1565	31	1		
SIMW2084	31	1		
SIM1570D	32	3		
SIM1570S	32	4		
SIMW2045	33	2		
SIMW703D	33	1		
SIMW703S	33	4		
SIMW1785	35	3		
SIMW2083	35	1		
SIMW1233	36	1		
SIMW1790	36	2		
SIMW1571	37	2		
SIH1362B	38	2		
SIM1792D	38	1		
SIM1792S	38	3		
SIMW1232	39	3		
SIMW707D	39	2		
SIMW1791	40	3		
SIM2042D	41	1		
SIM2042S	41	4		
SIMW805D	41	2		
SIMW805S	41	3		
SIMW1231	42	2		
SIMW2041	43	4		
SIMW09RD	44	3		
SIMW1012	44	3		
SIMW1228	44	5		

SIMI VALLEY SEM MONITORING

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIMWO9RS	44	2		
SIMW010R	45	1		
SIMW007R	46	4		
SIMW1227	47	4		
SIMW1234	47	1		
SIM1572D	48	3		
SIM1572S	48	2		
SIMW810D	51	4		
SIMW810S	51	2		
SIMW0018	52	2		
SIMW0812	52	1		
SIMW0811	53	1		
SIMLR00D	55	4		
SIMW0003	57	2		
SIMW0813	57	2		
SIMW2009	57	2		
SIMW1014	58	1		
SIMW1107	59	2		
SIH1405B	60	1		
SIH1406B	60	4		
SIMW1806	60	2		
SIMW1013	61	1		
SIMW1226	62	1		
SIMW1011	63	3		
SIM1673S	64	4		
SIM1793D	64	2		
SIM1793S	64	1		
SIMW012R	64	1		
SIH1406A	65	3		
SIM2044D	65	3		

SIMI VALLEY SEM MONITORING

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIM2044S	65	2		
SIMW1229	65	3		
SIM1788D	66	1		
SIM1788S	66	6		
SIH1362A	67	5		
SIH1404A	67	2		
SIMW1008	67	2		
SIMW1787	67	4		
SIM1789D	68	3		
SIM1789S	68	7		
SIM2054D	68	4		
SIM2054S	68	1		
SIMW1005	68	2		
SIMW1225	68	1		
SIM2043D	69	4		
SIM2043S	69	3		
SIMW1786	69	3		
SIM1573D	70	2		
SIM1573S	70	4		
SIM1783D	70	5		
SIM1783S	70	3		
SIM2064D	70	3		
SIM2064S	70	1		
SIMW2086	70	2		
SIM1805D	71	5		
SIM1805S	71	3		
SIMW1224	71	3		
SIMW1569	71	6		
SIH1359A	72	4		
SIM1927S	72	2		

SIMI VALLEY SEM MONITORING

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIMW1784	72	1		
SIMW1779	73	2		
SIM1568D	74	4		
SIM1568S	74	1		
SIM2052D	74	2		
SIM2052S	74	2		
SIMW2065	74	3		
SIM1564D	75	4		
SIM1564S	75	2		
SIMW0202	76	1		
SIMW0045	78	1		
SIMW1563	78	3		
SIM1562D	81	6		
SIM1562S	81	2		
SIMW0047	81	5		
SIM2061D	82	5		
SIM2061S	82	1000	80	68
SIM1778D	83	2		
SIM1778S	83	2		
SIMW1802	83	3		
SIMW822D	83	1		
SIMW822S	83	2		
SIMW1220	84	1		
SIMW2053	84	4		
SIM1780D	85	3		
SIM1780S	85	2		
SIMW1804	85	5		
SIH1401A	86	5		
SIMW1104	86	6		
SIMW2047	86	2		

SIMI VALLEY SEM MONITORING

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIH1403A	88	2700	116	182
SIM2081D	88	2		
SIM2081S	88	3		
SIMW1105	88	2		
SIMW1781	88	1		
SIMHL005	88	1		
SIM1782D	89	1		
SIM1782S	89	3		
SIM1928S	89	4		
SIMW2056	89	1		
SIMLR0AR	89	1		
SIMW1356	90	2		
SIMLR00A	90	2		
SIM1929S	91	1		
SIMW1797	91	3		
SIMW1801	91	1		
SIM1799D	92	2		
SIM1799S	92	1		
SIMW1222	93	1		
SIMW2046	93	2		
SIMW2049	93	2		
SIMW1798	94	3		
SIMW1010	95	1		
SIMW1355	95	4		
SIMW2048	95	2		
SIM1937S	96	1		
SIH1403B	97	4		
SIH1404B	97	3		
SIMW0814	98	3		
SIMLR602	99	4		

SIMI VALLEY SEM MONITORING

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIMLR603	99	2		
SIMW0816	99	3		
SIMW0817	100	3		
SIMW0818	101	3		
SIMW0819	103	2		
SIMW1102	103	5		
SIMW1796	103	2		
SIMW2055	104	2		
SIM1933S	105	1		
SIM1938S	105	3		
SIMW1354	105	3		
SIMW1794	105	4		
SIH1235A	105	700	221	356
SIH2001A	106	2		
SIM1932S	106	1		
SIMW1007	106	2		
SIM1931S	107	1		
SIMW1807	107	1		
SIMW1353	108	1		
SIMW1795	108	3		
SIH2001B	109	2		
SIM1930S	109	3		
SIMW1803	109	1		
SIM1777D	110	1		
SIM1777S	110	2		
SIM1924S	110	3000	300	108
SIMW1101	110	2		
SIMW1219	110	2		
SIMW1776	110	4		
SIMHL002	110	3		

SIMI VALLEY SEM MONITORING

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIMHL003	110	5		
SIMW2057	111	5		
SIMHL001	112	1		
SIMW0048	113	2		
SIMW1560	113	5		
SIMW2062	113	2		
SIMW1816	114	5		
SIMW2058	114	6		
SIMW1561	115	6		
SIMW2060	116	3		
SIMW0031	117	2		
SIMW2001	117	4		
SIMW2000	118	5		
SIH1401B	119	2500	191	222
SIMW2099	119	2		
SIMW0820	120	4		
SIMW2059	120	2		
SIMW2098	122	2		
SIMLR31A	123	6		
SIMW2076	126	3		
SIMW2096	127	2800	394	126
SIMW2097	127	6		
SIMW2077	128	4		
SIMW2095	129	1780	232	200
SIMW2074	130	2		
SIMW2078	131	3		
SIMW2073	132	2		
SIMW2094	132	5		
SIMW2079	133	2		
SIMW2072	134	2		

SIMI VALLEY SEM MONITORING

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIMW2093	**134**	4		
SIMW2080	**135**	3		
SIMW2002	**136**	600	39	313
SIMW2071	**136**	2		
SIMW2087	**136**	7000	374	484
SIMW2088	**137**	ACTIVE TRASH		
SIMW2003	**138**	ACTIVE TRASH		
SIMW2004	**138**	ACTIVE TRASH		
SIMW1809	**139**	ACTIVE TRASH		
SIMW1815	**139**	ACTIVE TRASH		
SIMW1814	**141**	ACTIVE TRASH		
SIMW2005	**141**	ACTIVE TRASH		
SIMW1817	**142**	ACTIVE TRASH		
SIMW1811	**143**	ACTIVE TRASH		
SIMW1813	**143**	ACTIVE TRASH		
SIMW2082	**143**	ACTIVE TRASH		
SIMW1812	**144**	8		
SIMW1821	**144**	6		
SIMW2070	**144**	5		
SIMSVE03	**144**	3		
SIH02004	**145**	2		
SIM1936S	**145**	4		
SIH2115F	**146**	2		
SIH02106	**146**	1		
SIMW1820	**149**	3		
SIMW2089	**149**	5		
SIMW1810	**151**	2		
SIMW1819	**151**	2		
SIMW1818	**153**	4		
SIMW2090	**153**	3		

SIMI VALLEY SEM MONITORING

PENETRATION ID	GRID NUMBER	INITIAL (PPM)	10 DAY (PPM)	30 DAY (PPM)
SIMW2091	**155**	6		
SIMW2092	**156**	4		
SIH2115E	**157**	2		
SIH02107	**157**	5		
SIH02108	**157**	7		
SIH2115D	**158**	3		
SIH02109	**158**	2		
SIH02110	**158**	2		
SIH2115C	**159**	1		
SIH02111	**159**	3		
SIH02112	**159**	3		
SIH2115B	**161**	5		
SIH2115A	**168**	ACTIVE TRASH		
SIH02113	**168**	ACTIVE TRASH		
SIH02114	**168**	ACTIVE TRASH		
SIMLR22A	**168**	ACTIVE TRASH		
SIMLR22B	**168**	ACTIVE TRASH		
SIMHL007	**179**	ACTIVE TRASH		
SIMHL006	**182**	ACTIVE TRASH		
SIM2101S	**184**	ACTIVE TRASH		
SIM2100S	**185**	ACTIVE TRASH		
SIMLR22C	**185**	ACTIVE TRASH		

Attachment B

Integrated Surface Emission Monitoring Event Records

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: S. Hershey, S. Pope, O. Peralta, J. Loyola, G. Robles, S. Ramirez

Cal. Gas Exp. Date: 1-19-23

Date: 3-3-22 Instrument Used: DSS 1-6 Grid Spacing: 25'

Temperature: 68° Precip: 0 Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
1	OP	1010	1035	5	333	2	2	16	
2	GR	1010	1035	2		2	2	16	
3	SP	1010	1035	2		2	2	16	
4	JL	1010	1035	1		2	2	16	
5	ER	1010	1035	3		2	2	16	
6	OP	1035	1100	1		3	3	14	
7	GR	1035	1100	1		3	3	14	
8	SP	1035	1100	2		3	3	14	
9	JL	1035	1100	4		3	3	14	
10	ER	1035	1100	1		3	3	14	
11	OP	1100	1125	3		3	4	16	
12	GR	1100	1125	2		3	4	16	
13	SP	1100	1125	4		3	4	16	
14	JL	1100	1125	3		3	4	16	
15	ER	1100	1125	5		3	4	16	
16	OP	1125	1150	5		1	2	2	
17	GR	1125	1150	2		1	2	2	
18	SP	1125	1150	1		1	2	2	
19	JL	1125	1150	4		1	2	2	
20	ER	1125	1150	3		1	2	2	
21	SH	1125	1150	3		1	2	2	
22	SH	1150	1215	2		2	3	14	
23	OP	1150	1215	4		2	3	14	
24	GR	1150	1215	5		2	3	14	
25	SP	1150	1215	3		2	3	14	
26	JL	1150	1215	2		2	3	14	
27	ER	1150	1215	2	✓	2	3	14	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: J. Anderson #28 R. Lemos #
R. Rodriguez # B. McCullough #
R. Ortega #
Cal. Gas Exp. Date: 7-10-21

Date: 3-9-22 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 68 Precip: 0 Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
28	JA	0710	0735	6	333	2	2	7	
29	RR	0710	0735	3		2	2	7	
30	BM	0710	0735	4		2	2	7	
31	RO	0710	0735	5		2	2	7	
32	RL	0710	0735	2		2	2	7	
33	JA	0735	0800	4		3	3	7	
34	RR	0735	0800	4		3	3	7	
35	BM	0735	0800	3		3	3	7	
36	RO	0735	0800	6		3	3	7	
37	RL	0735	0800	5		3	3	7	
38	JA	0800	0825	3		2	3	2	
39	RR	0800	0825	5		2	3	2	
40	BM	0800	0825	4		2	3	2	
41	RO	0800	0825	6		2	3	2	
42	RL	0800	0825	7		2	3	2	
43	JA	0825	0850	12		2	3	7	
44	RR	0825	0850	9		2	3	7	
45	BM	0825	0850	8		2	3	7	
46	RO	0825	0850	7		2	3	7	
47	RL	0825	0850	6		2	3	7	
48	JA	0850	0915	4		3	3	7	
49	RR	0850	0915	3		3	3	7	
50	BM	0850	0915	2		3	3	7	
51	RO	0850	0915	3		3	3	7	
52	RL	0850	0915	4		3	3	7	
53	JA	0915	0940	5		2	3	6	
54	RR	0915	0940	4		2	3	6	
55	BM	0915	0940	2		2	3	6	
56	RO	0915	0940	6		2	3	6	
57	RL	0915	0940	7		2	3	6	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: J. Andrews [illegible] — R. [illegible] — R. Reni — B. McCullough — R. Ortega

Cal. Gas Exp. Date: 7-10-24

Date: 3-9-22 Instrument Used: TVA1000 Grid Spacing: 25"

Temperature: 68 Precip: 0 Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND INFORMATION AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	REMARKS
58	JA	0940	1005	12	333	2	3	5	
59	RR	0940	1005	9		2	3	5	
60	Bm	0940	1005	10		2	3	5	
61	Ro	0940	1005	11		2	3	5	
62	RL	0940	1005	11		2	3	5	
63	JA	1005	1030	5		2	3	4	
64	RR	1005	1030	6		2	3	4	
65	Bm	1005	1030	7		2	3	4	
66	RO	1005	1030	7		2	3	4	
67	RL	1005	1030	6		2	3	4	
68	JA	1030	1055	5		3	4	5	
69	RR	1030	1055	5		3	4	5	
70	Bm	1030	1055	4		3	4	5	
71	Ro	1030	1055	3		3	4	5	
72	RL	1030	1055	4		3	4	5	
73	JA	1055	1220	5		3	4	5	
74	RR	1155	1220	4		3	4	5	
75	Bm	1155	1220	5		3	4	5	
76	Ro	1155	1220	5		3	4	5	
77	RL	1155	1220	3		3	4	5	
78	JA	1220	1245	2		3	4	4	
79	RR	1220	1245	14		3	4	4	
80	Bm	1220	1245	19		3	4	4	
81	RO	1220	1245	10		3	4	4	
82	RL	1220	1245	9		3	4	4	
83	JA	1245	1310	9		2	3	5	
84	RR	1245	1310	[illegible]		2	3	5	
85	Bm	1245	1310	10		2	3	5	
86	Ro	1245	1310	7		2	3	5	
87	RL	1245	1310	6	↓	2	3	5	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: J. Anderson #25 R. Lemos
R. Reyes # B. McCullough #
R. Ortega #
Cal. Gas Exp. Date:

Date: 3-9-22 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 68 Precip: 0 Upwind BG: 1 Downwind BG: 3

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
88	JA	1310	1335	9	933	2	3	4	
89	RR	1310	1335	5	↓	2	3	4	
90	BM	1310	1335	12		2	3	4	
91	RO	1310	1335	5		2	3	4	
92	RL	1310	1335	8		2	3	4	

Attach Calibration Sheet
Attach site map showing grid ID

Page 2 of 2

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: J. Anderson ## R. Lewis
R. Ramirez ## B. McCullough ##
R. Ortega ##
Cal Gas Exp. Date: 7-10-21

Date: 3-10-22 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 74 Precip: 0 Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
79	RR	0730	0755	12	333	3	4	13	
93	RO	0730	0755	6		3	4	13	
94	BM	0730	0755	9		3	4	13	
95	RL	0730	0755	3		3	4	13	
96	RR	0755	0820	5		3	3	12	
97	RO	0755	0820	4		3	3	12	
98	BM	0755	0820	4		3	3	12	
99	RL	0755	0820	7		3	3	12	
100	JA	0820	0845	8		1	2	13	
101	RR	0820	0845	6		1	2	13	
102	RO	0820	0845	4		1	2	13	
103	BM	0820	0845	3		1	2	13	
104	RL	0820	0845	17		1	2	13	
105	JA	0845	0910	29.00		2	3	4	
106	RR	0845	0910	12		2	3	4	
107	RO	0845	0910	14		2	3	4	
108	BM	0845	0910	28.18		2	3	4	
109	RL	0845	0910	9		2	3	4	
110	JA	0910	0935	26.24		3	4	4	
111	RO	0910	0935	16		3	4	4	
112	BM	0910	0935	11		3	4	4	
113	RL	0910	0935	10		3	4	4	
114	JA	0935	1000	25.01		5	7	3	
115	RR	0935	1000	27.92		5	7	3	
116	RO	0935	1000	9		5	7	3	
117	BM	0935	1000	12		5	7	3	
118	RL	0935	1000	27.36		5	7	3	
119	JA	1000	1025	11		6	8	4	
120	RR	1000	1025	13		6	8	4	
121	RO	1000	1025	8		6	8	4	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: J. Anderson ## R. Lemos
R. Ramos ## B. McCullough ##
R. Ortega ##
Cal. Gas Exp. Date: 7-10-24

Date: 7-10-22 Instrument Used: TVA1001 Grid Spacing: 25'

Temperature: 74 Precip: 0 Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO MTR, CC/MIN	WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
136	BM	1000	1025	31.01	333	6	8	4	
144	RL	1000	1025	8		6	8	4	
145	JA	1025	1050	6		3	5	4	
146	RR	1025	1050	6		3	5	4	
147	RO	1025	1050	4		3	5	4	
148	BM	1025	1050	5		3	5	4	
149	RL	1025	1050	4		3	5	4	
150	JA	1050	1115	4		2	4	4	
151	RR	1050	1115	3		2	4	4	
152	RO	1050	1115	4		2	4	4	
153	BM	1050	1115	5		2	4	4	
154	RL	1050	1115	6		2	4	4	
155	JA	1115	1140	6		2	3	12	
156	RR	1115	1140	4		2	3	12	
157	RO	1115	1140	3		2	3	12	
158	BM	1115	1140	2		2	3	12	
159	RL	1115	1140	2		2	3	12	
160	JA	1140	1205	5		3	5	9	
161	RR	1140	1205	4		3	5	9	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: T. Lewis
A. Lugo
A. Peralta
Cal. Gas Exp. Date: 1-23-23

Date: 3-25-22 Instrument Used: TVA Grid Spacing: 25

Temperature: 61 Precip: 0 Upwind BG: 1 Downwind BG: 2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
123	TL	0625	0650	5	333	3	5	14	
124	AP	0625	0650	5	↓	3	5	14	
125	AL	0625	0650	6		3	5	14	
126	TL	0650	0715	5		3	5	15	
127	AP	0650	0715	4		3	5	15	
128	AL	0650	0715	6		3	5	15	
129	TL	0715	0740	5		3	5	14	
130	AP	0715	0740	4		3	5	14	
131	AL	0715	0740	4		3	5	14	
132	TL	0740	0805	3		4	5	15	
133	AP	0740	0805	2		4	5	15	
134	AL	0740	0805	5		4	5	15	
122	TL	0805	0830	5		4	5	16	
135	AP	0805	0830	7		4	5	16	

Attach Calibration Sheet
Attach site map showing grid ID

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: T. Lewis _____ _____ Active trash

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 3-25-22 Instrument Used: _____ Grid Spacing: _____

Temperature: _____ Precip: _____ Upwind BG: _____ Downwind BG: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
137									Active trash
138									
139									
140									
141									
142									
143									
168									
169									
170									
171									
172									
173									
174									
175									
176									
177									
178									
179									
180									
181									
182									
183									
184									
185									
162									
163									
164									
165									
166									

Attach Calibration Sheet
Attach site map showing grid ID

Page 1 of 2

SIMI VALLEY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: T. Lewis _____ _____ _____
_____ _____ _____
_____ _____ Cal. Gas Exp. Date: _____

Date: 3-25-22 Instrument Used: _____ Grid Spacing: _____

Temperature: _____ Precip: _____ Upwind BG: _____ Downwind BG: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND INFORMATION			REMARKS
						AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
17									Active Trash

Attach Calibration Sheet
Attach site map showing grid ID

Page 1 of 1

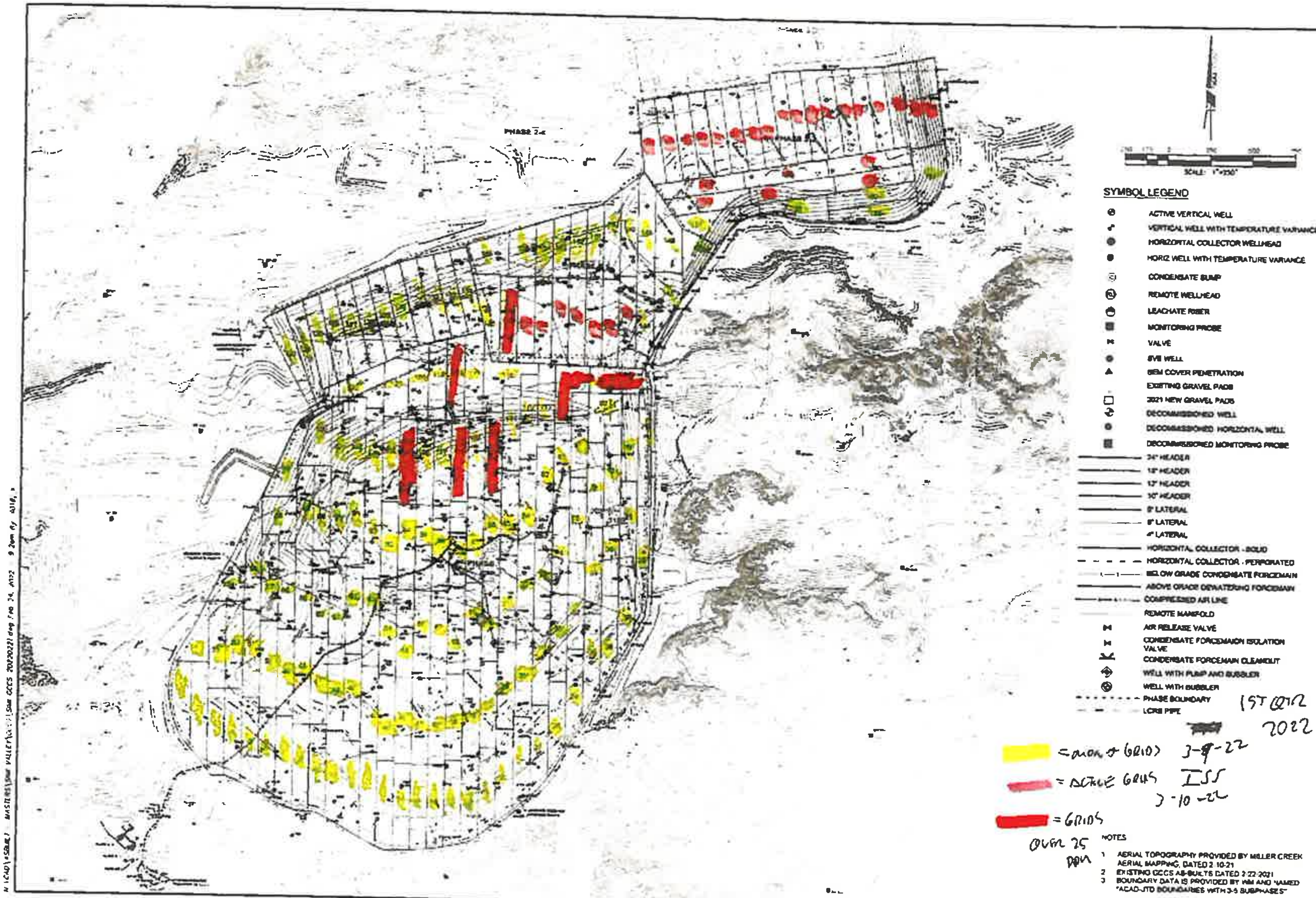
Integrated Surface Sampling
10 Day Exceedances and Monitoring Log

Site: Simi Valley Landfill

Page 1 of 1 Pages

Quarter / Year:	2ST QTR 2022	1ST QTR 2022	
Technician:	[illegible]	Willie Ford	
Instrument:	TVA1000	TVA 1000 & ISSPack #2	
Calibration Standard:	25PPM	25 PPM	

Initial Monitoring Event			First Re-Monitoring Event – 10 Days				Second Re-Monitoring Event – 10 Days			
Grid Number	Field Reading (ppm)	Date Monitored	Remedial Work	Date Monitored	No Excd. <25 ppm	Excd. >25 ppm	Remedial Work	Date Monitored	No Excd. <25 ppm	Excd. >25 ppm
105	24.00	3-10-22		3-18-22	13.97					
108	28.18				14.59					
110	26.21				12.67					
114	25.01				17.71					
115	27.92				22.50					
118	27.36				18.75					
136	31.01				19.01					



NO	REVISION	DATE

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS

CLIENT: WM

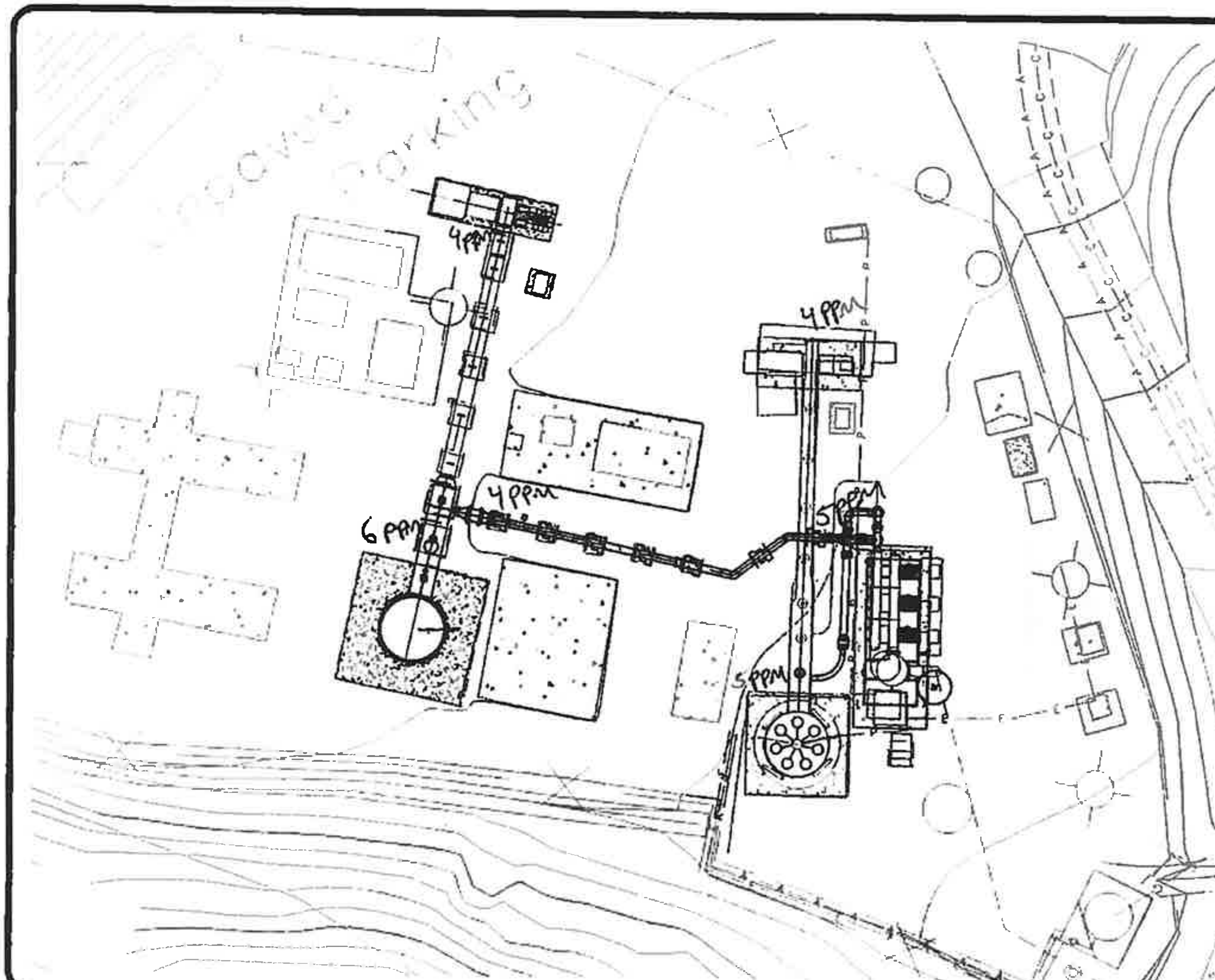
SHEET TITLE: SEM PENETRATION MAP

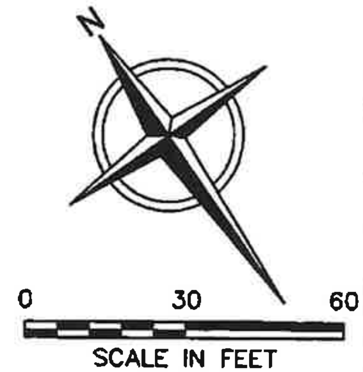
PROJECT TITLE: SIMI VALLEY LANDFILL AND RECYCLING CENTER, 2801 MADERA ROAD, SIMI VALLEY CALIFORNIA 93065

DATE: 02-22-2022
SCALE: AS SHOWN
DRAWING NO: 3 .. 3

Attachment C

Component Leak Monitoring Event Records





DATE: 3-2-22

TIME: 1100

TECHNICIAN: Shawn Hershey

NOTES:
1. MONITOR ALL FLANGES AND ABOVE GROUND CONNECTIONS. WRITE THE HIGHEST READING IN THE BOX LABELED PPM. DRAW A CIRCLE AROUND THE LOCATIONS OF THE LEAK.

TETRA TECH

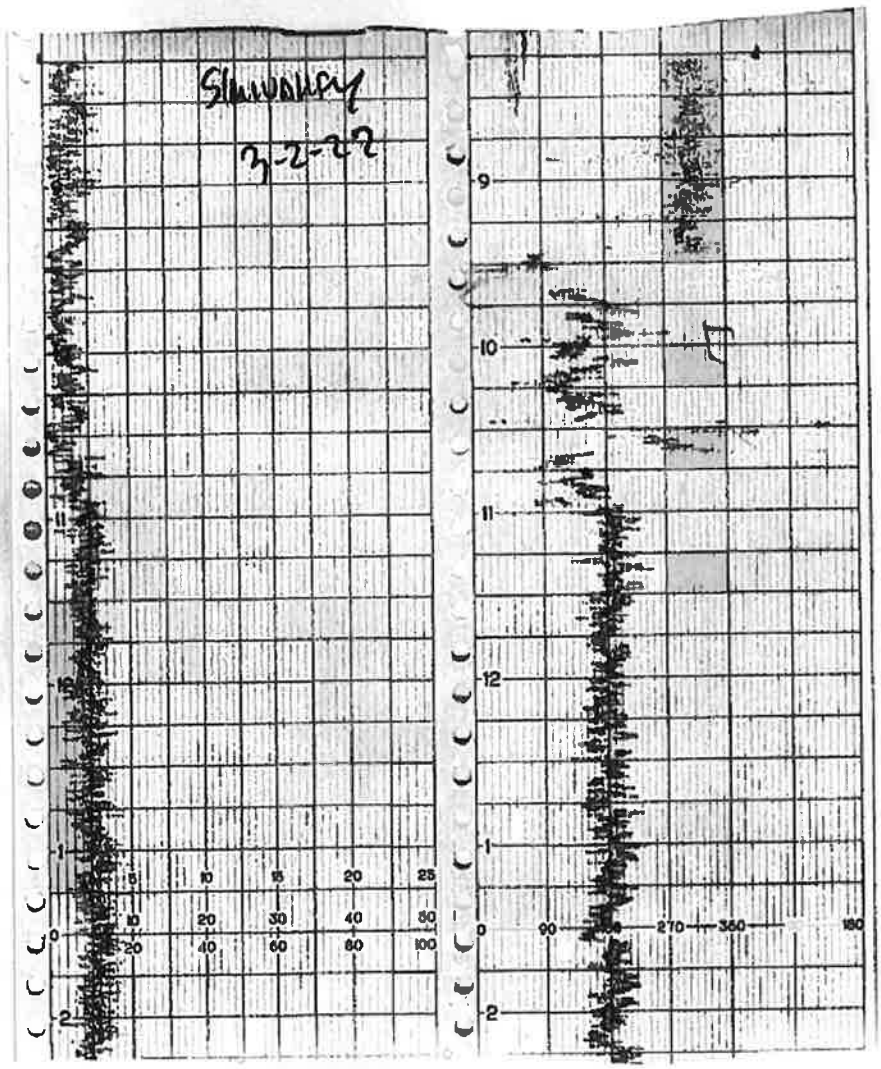
SIMI VALLEY LANDFILL
AND RECYCLING CENTER
SIMI VALLEY, CALIFORNIA
SEM RESULTS - FLARE STATION

FIGURE NO.
1
PROJECT NO.
200026

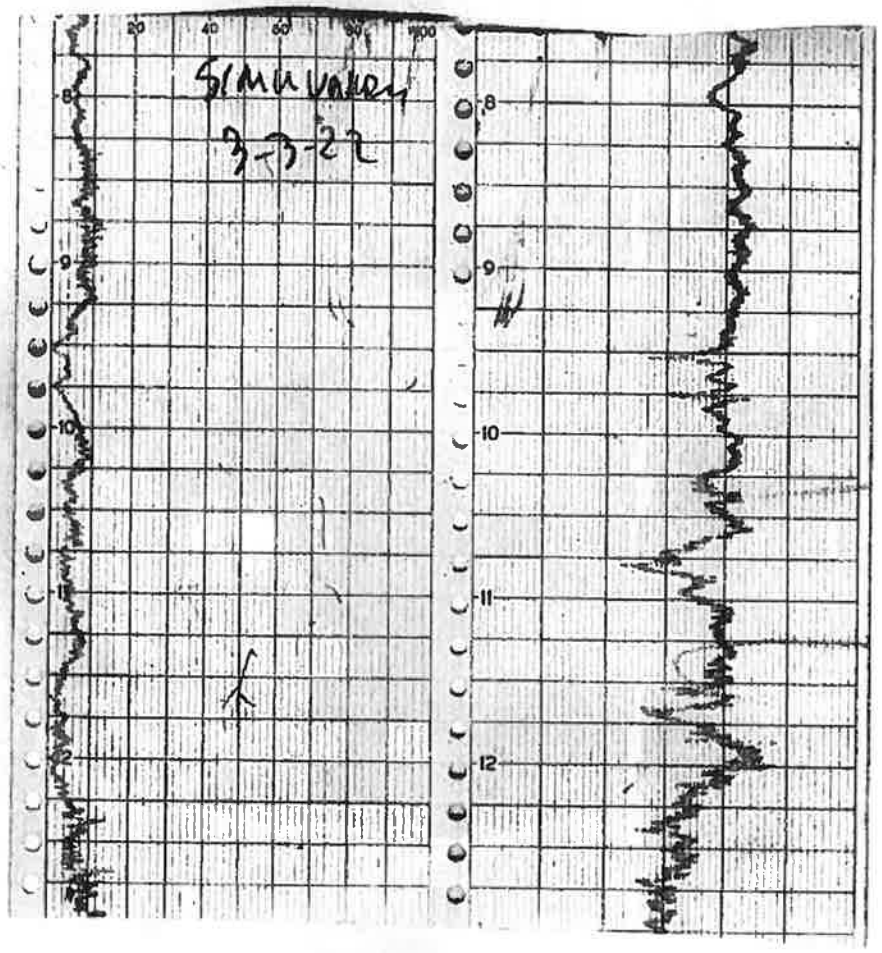
Attachment D

Weather Station Data

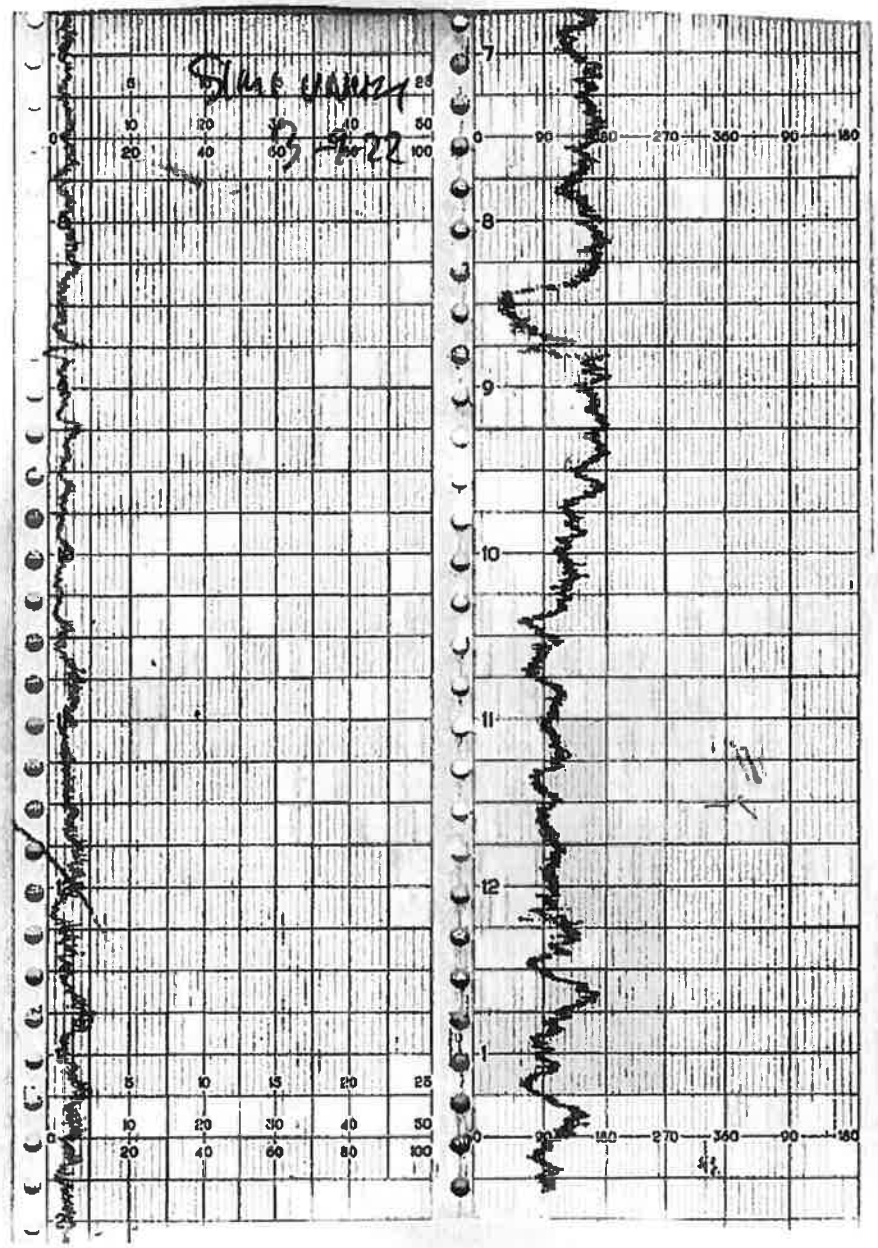
WIND SPEED & DIRECTION CHART ROLL



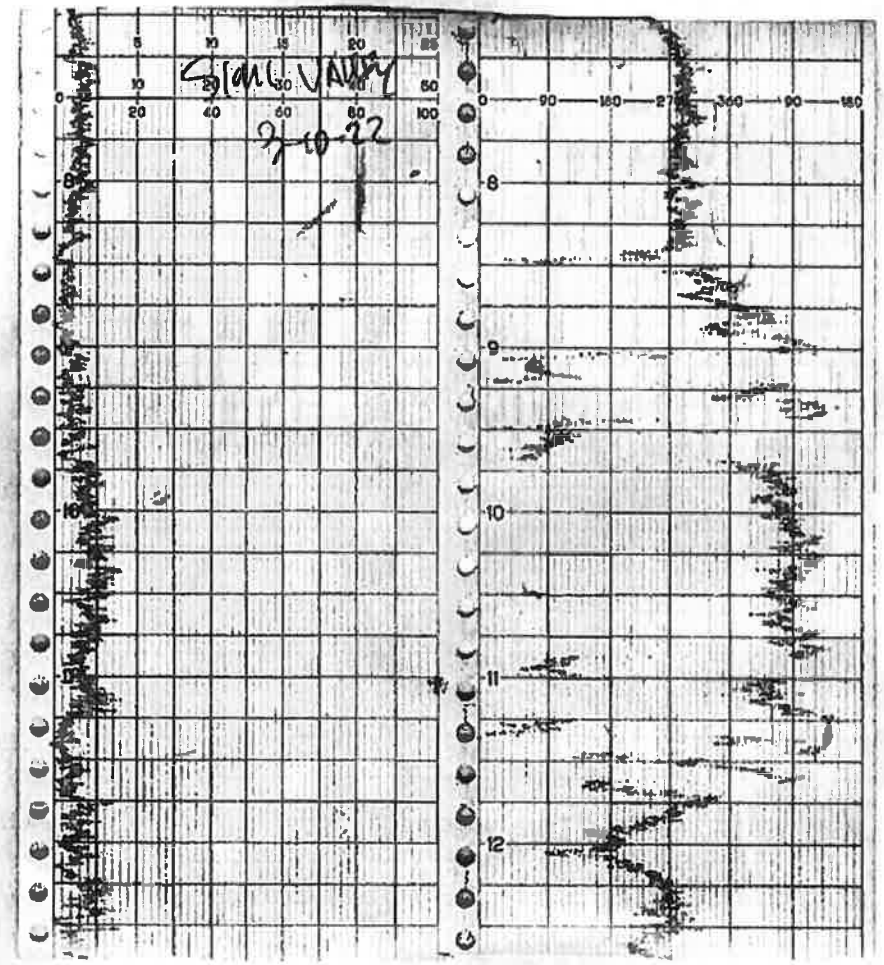
WIND SPEED & DIRECTION CHART ROLL



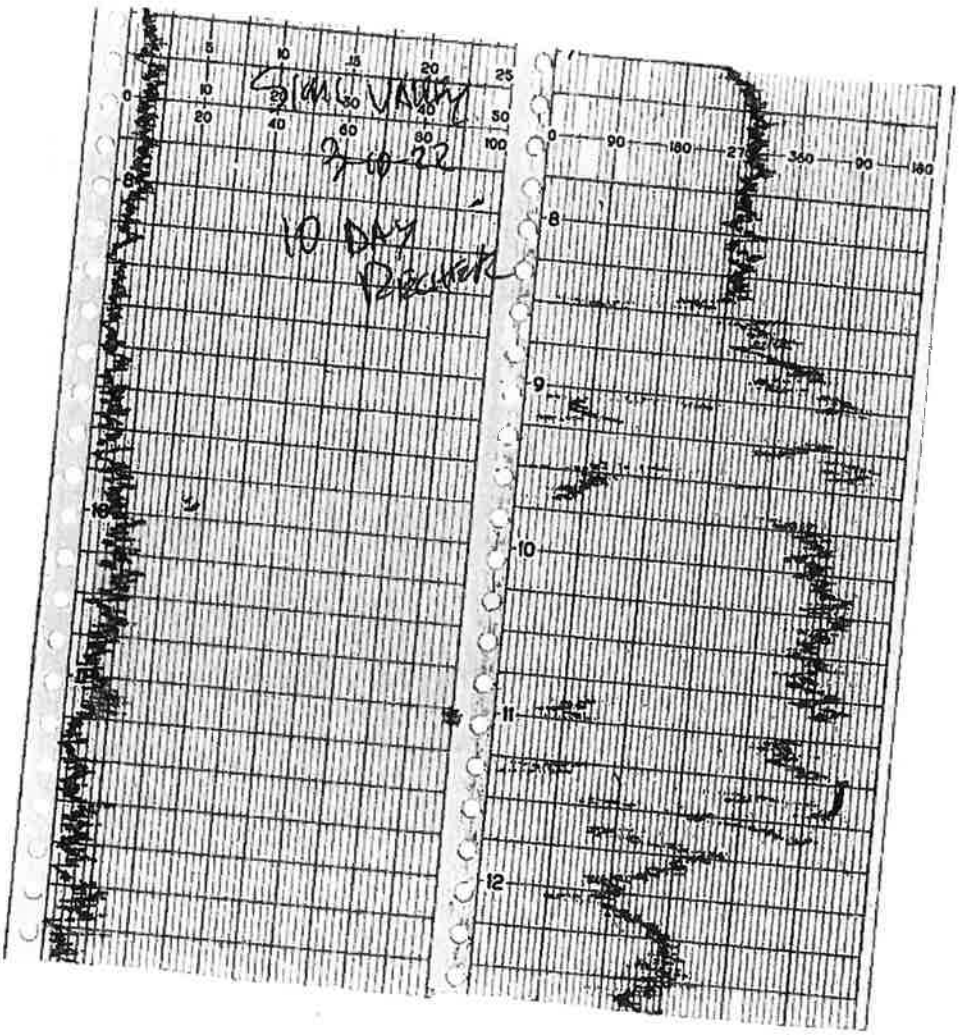
WIND SPEED & DIRECTION CHART ROLL



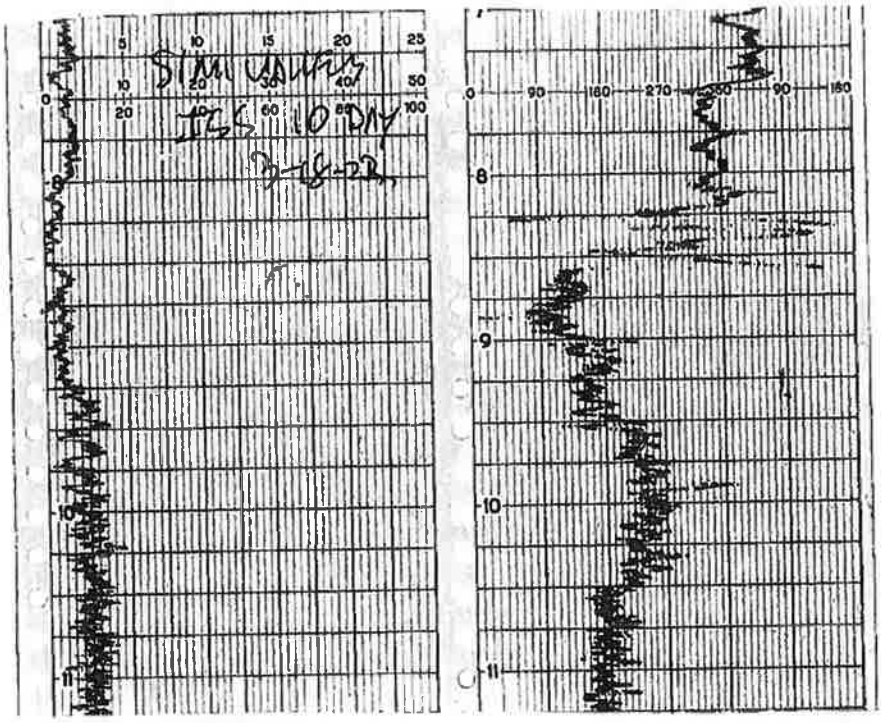
WIND SPEED & DIRECTION CHART ROLL



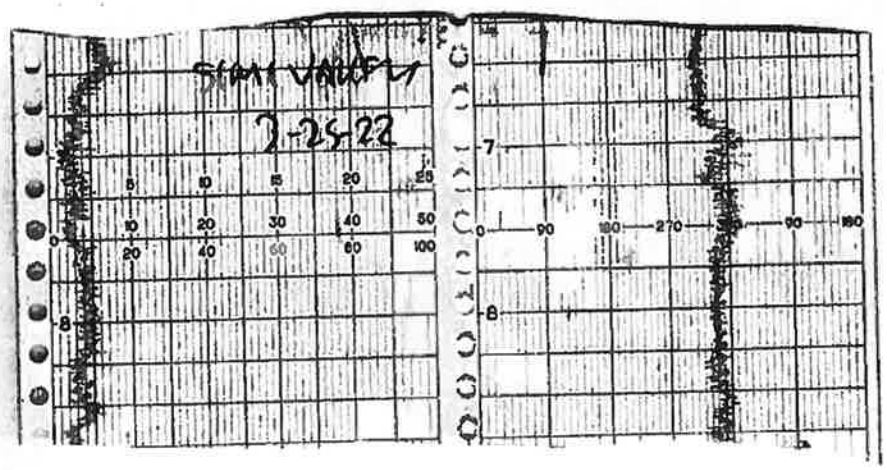
WIND SPEED & DIRECTION CHART ROLL



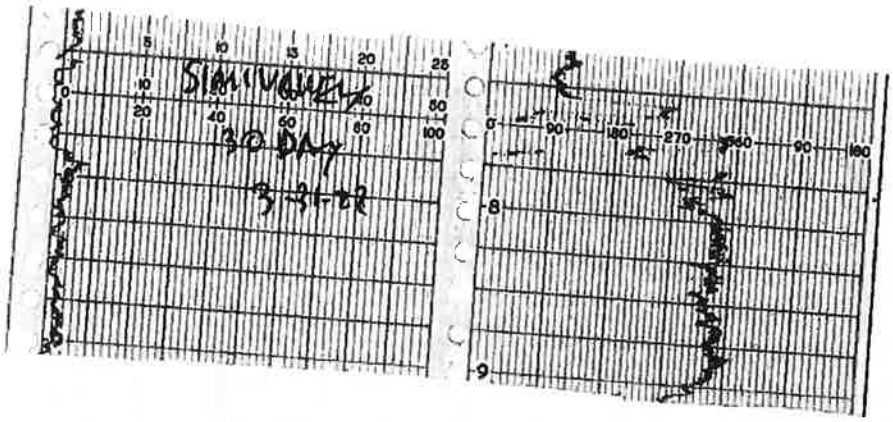
WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL



RES Environmental Inc.

16-POINT WIND DIRECTION INDEX

NO	DIRECTION	DEGREES		
		FROM	CENTER	TO
16	NORTH (N)	348.8	360.0	011.3
1	NORTH-NORTHEAST (NNE)	011.3	022.5	033.8
2	NORTHEAST (NE)	033.8	045.0	056.3
3	EAST-NORTHEAST (ENE)	056.3	067.5	078.8
4	EAST (E)	078.8	090.0	101.3
5	EAST-SOUTHEAST (ESE)	101.3	112.5	123.8
6	SOUTHEAST (SE)	123.8	135.0	146.3
7	SOUTH-SOUTHEAST (SSE)	146.3	157.5	168.8
8	SOUTH (S)	168.8	180.0	191.3
9	SOUTH-SOUTHWEST (SSW)	191.3	202.5	213.8
10	SOUTHWEST (SW)	213.8	225.0	236.3
11	WEST-SOUTHWEST (WSW)	236.3	247.5	258.8
12	WEST (W)	258.8	270.0	281.3
13	WEST-NORTHWEST (WNW)	281.3	292.5	303.8
14	NORTHWEST (NW)	303.8	315.0	326.3
15	NORTH-NORTHWEST (NNW)	326.3	337.5	348.8

865 Via Lata ▪ Colton, California 92324 ▪ (909) 422-1001 Fax (909) 422-0707

Attachment E

Calibration Records

INTERMOUNTAIN SPECIALTY GASES

520 N. Kings Road • Nampa • Idaho • 83687

800-552-5003 • www.isgases.com

CERTIFICATE OF ANALYSIS

Composition	Certification	Analytical Accuracy
Air - Zero		
THC	< 2 PPM	
Oxygen	20.9%	± 2%
Nitrogen	Balance	

Lot # 19-6779

Mfg. Date: 4/3/2019

Parent Cylinder ID Number: 001739, 02268

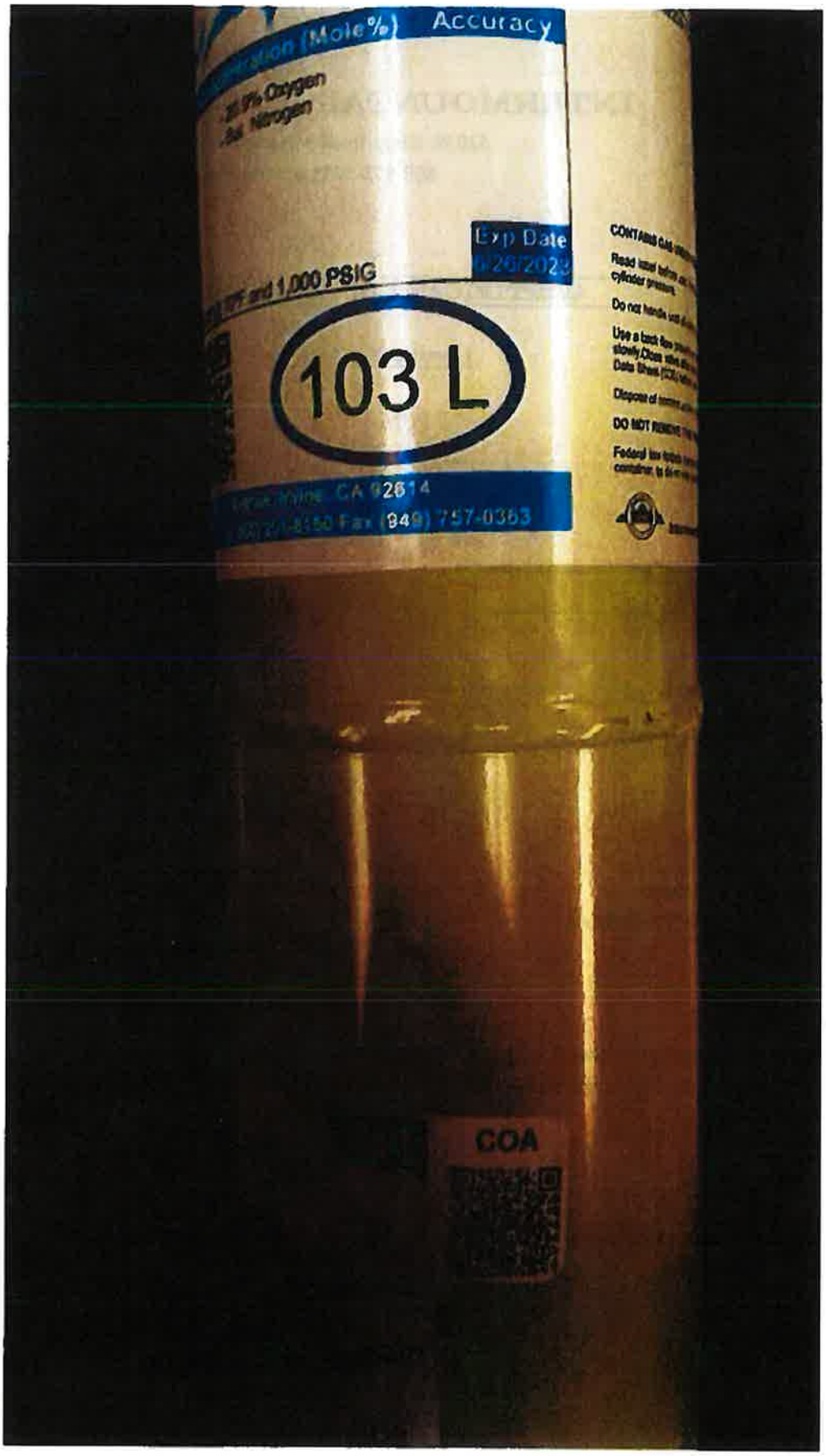
Method of Preparation:

Gravimetric/Pressure Transfilled

Method of Analysis:

This mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

Analysis By: Tony Janquart
Quality Assurance Manager
800-552-5003
Certificate Date: 4/3/2019


Accuracy
Exp Date
103 L
COA

INTERMOUNTAIN SPECIALTY GASES

520 N. Kings Road • Nampa • Idaho • 83687
800-552-5003 • www.isgases.com

CERTIFICATE OF ANALYSIS

Composition	Certification	Analytical Accuracy
Methane	25 ppm	± 5%
Air	Balance	

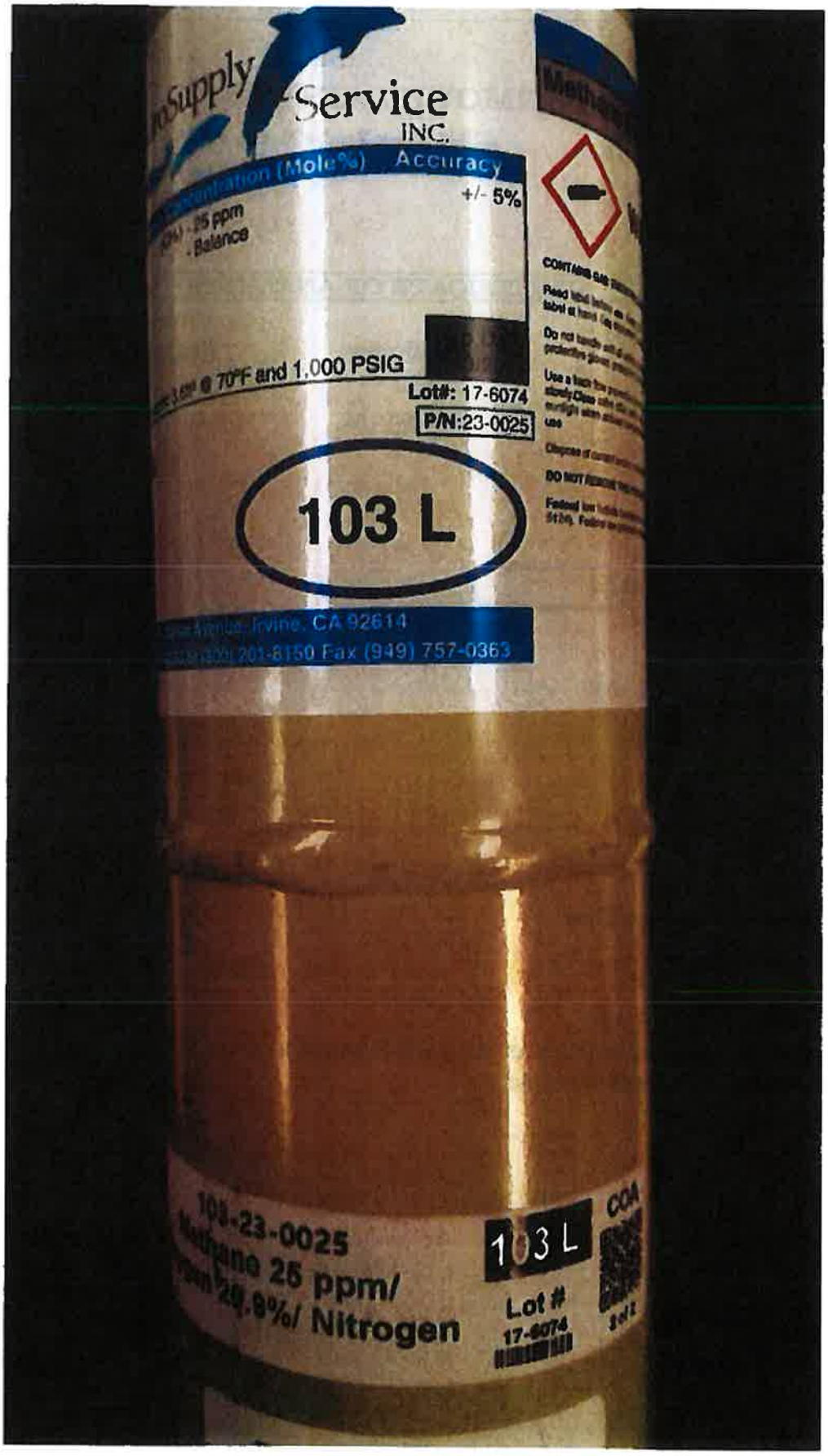
Lot # 17-6074

Mfg. Date: 10/16/2017
Parent Cylinder ID Number: 17161

Method of Preparation:
Gravimetric/Pressure Transfilled

Method of Analysis:
The parent mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

Analysis By: Tony Janquart
Quality Assurance Manager
800-552-5003
Certificate Date: 10/16/2017


Service
INC.
Accuracy
+/- 5%
- Balance
@ 70°F and 1,000 PSIG
Lot#: 17-6074
P/N:23-0025
103 L
Irvine, CA 92614
(949) 201-8150 Fax (949) 757-0363
103 L
Lot #
17-6074

INTERMOUNTAIN SPECIALTY GASES

520 N. Kings Road • Nampa • Idaho • 83687

800-552-5003 • www.isgases.com

CERTIFICATE OF ANALYSIS

Composition	Certification	Analytical Accuracy
Methane	25 ppm	± 5%
Air	Balance	

Lot # 17-6074

Mfg. Date: 10/16/2017

Parent Cylinder ID Number: 17161

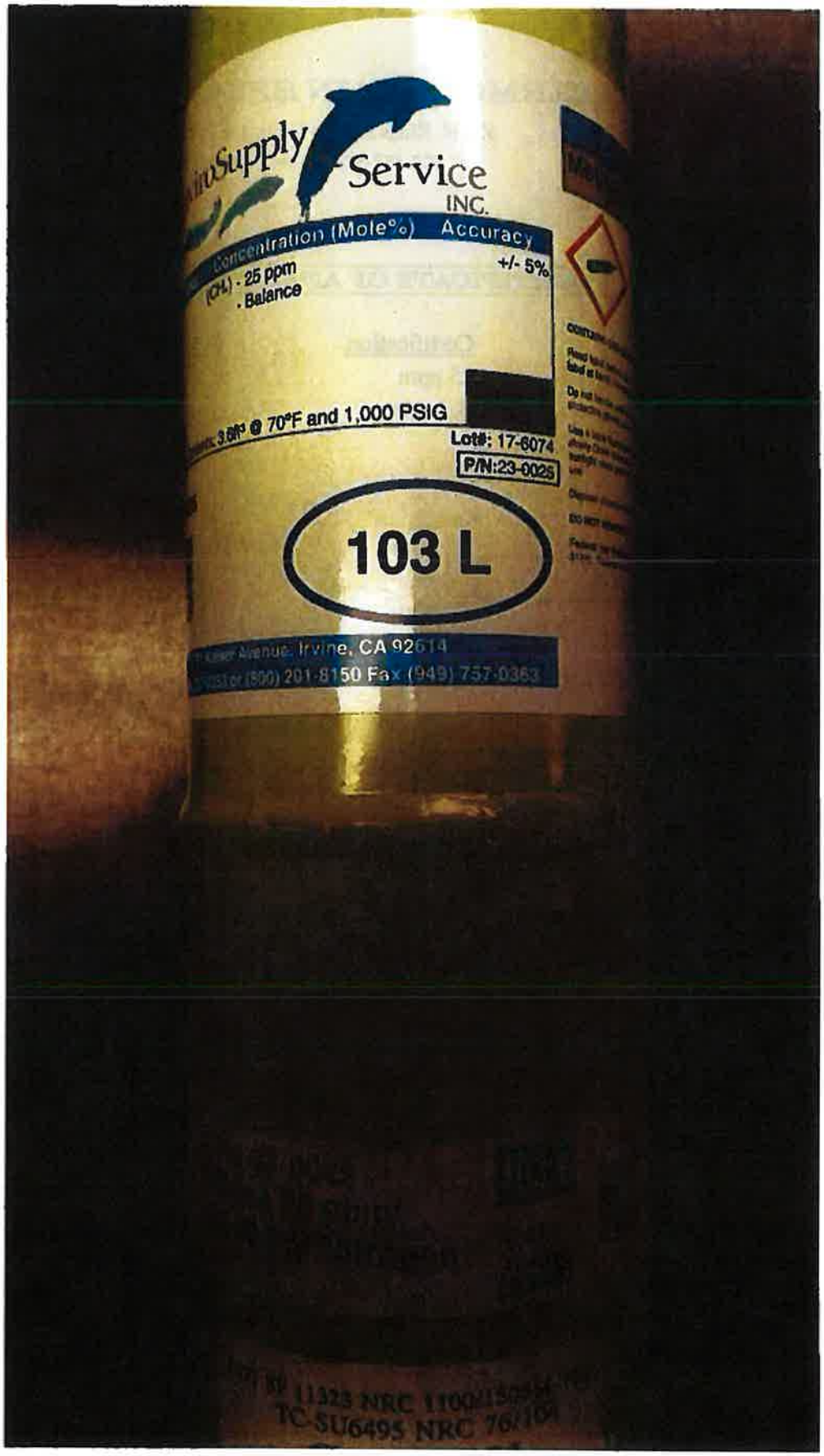
Method of Preparation:

Gravimetric/Pressure Transfilled

Method of Analysis:

The parent mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

Analysis By: Tony Janquart
Quality Assurance Manager
800-552-5003
Certificate Date: 10/16/2017


Supply
Service
INC.
Concentration (Mole%)
Accuracy
(CH4) - 25 ppm
. Balance
+/- 5%
@ 70°F and 1,000 PSIG
Lot#: 17-6074
P/N:23-0025
103 L
Irvine, CA 92614
(800) 201-8150 Fax (949) 757-0363

Intermountain Specialty Gases
520 N. Kings Road
Nampa, ID 83687 (USA)
Phone (800) 552-5003, Fax (208) 466-9143
www.isgases.com

INTERMOUNTAIN SPECIALTY GASES
"Your calibration gas manufacturer since 1992"

CERTIFICATE OF ANALYSIS

Composition	Certification	Analytical Accuracy (+/-)
Methane	500 ppm	2%
Oxygen	20.9 %	2%
Nitrogen	Balance UHP	

Lot #	**20-7497**
Mfg. Date:	7/10/2020
Expiration Date:	
Transfill Date:	see cylinder
Parent Cylinder ID Number:	TWC001763

Method of Preparation:

Gravimetric/Pressure Transfilled

Method of Analysis:

The parent mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

Analysis By: Tony Janquart
Title: Quality Assurance Manager
Certificate Date: 7/10/2020


Service
INC.
Accuracy
+/- 2%
Lot#: 20-7497
P/N:23-0500
103 L
Methane
Irvine, CA 92614
(949) 757-0363
103 L
COA
Lot #
20-7497

INTERMOUNTAIN SPECIALTY GASES
520 N. Kings Road • Nampa • Idaho • 83687
800-552-5003 • www.isgases.com

CERTIFICATE OF ANALYSIS

Composition	Certification	Analytical Accuracy
Methane	500 ppm	± 2%
Air	Balance	

Lot # 19-6955

Mfg. Date: 7/24/2019
Parent Cylinder ID Number: 001763

Method of Preparation:
Gravimetric/Pressure Transfilled

Method of Analysis:
The parent mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

Analysis By: Tony Janquart
Quality Assurance Manager
800-552-5003
Certificate Date: 7/24/2019


Service
INC
Accuracy
+/- 2%
Methane
Lot#:
P/N:
103 L
103 L
COA
Lot #
4 of 8
NRC 1100/1505M-1102
NRC 76/104
CAUTION
LAW FORBIDS
TRANSPORTATION IF
PENALTY UP
$500,000 FINE AND

Intermountain Specialty Gases
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Phone (800) 552-5003, Fax (208) 466-9143
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CERTIFICATE OF ANALYSIS

Composition	Certification	Analytical Accuracy (+/-)
Methane	500 ppm	2%
Oxygen	20.9 %	2%
Nitrogen	Balance UHP	

Lot #	18-6641
Mfg. Date:	12/18/2018
Expiration Date:	
Transfill Date:	see cylinder
Parent Cylinder ID Number:	001763

Method of Preparation:
Gravimetric/Pressure Transfilled

Method of Analysis:
The parent mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

Analysis By: Tony Janquart
Title: Quality Assurance Manager
Certificate Date: 12/18/2018


Service
Concentration (Mole%)
Accuracy
(CH4) : 500 ppm
: Balance
+/- 2%
Exp Date
@ 70°F and 1,000 PSIG
103 L
Avenue, Irvine, CA 92614
(800) 201-8150 Fax (949) 757-0383
103 L
COA
Lot #
18-0641
HC 1100/1505M-1102

RDS
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME: Simi valley INSTRUMENT MAKE: Thermo

MODEL: TVA1000 EQUIPMENT #: 5 SERIAL #: 4919480

MONITORING DATE: 3-3-22 TIME: 1005

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1 ppm	1 ppm	1 ppm

Background Value = 1 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	25 ppm	23.5 ppm	9
#2	25 ppm	23.5 ppm	11
#3	25 ppm	23.5 ppm	10
Calculate Response Time (1+2+3) / 3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0 ppm	25 ppm	25.00
#2	0 ppm	25 ppm	25.00
#3	0 ppm	25 ppm	25.00
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1			1 #DIV/0! Must be less than 10%

Performed By: Shawn Hershey Date/Time 3-3-22

RES

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo Environ

MODEL: TVA 1000 EQUIPMENT #: #4 SERIAL #: 1035045571

MONITORING DATE: 3-18-22 TIME: 0700

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
2.1 ppm	2.9 ppm	2.5 ppm

Background Value = 2.5 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	25 ppm	22.5 ppm	6
#2	26 ppm	22.5 ppm	6
#3	26 ppm	22.5 ppm	5
Calculate Response Time (1+2+3) / 3			5.6 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.51 ppm	25 ppm	0
#2	0.61 ppm	26 ppm	1
#3	0.54 ppm	26 ppm	1
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1			2.6 #DIV/0! Must be less than 10%

Performed By Willie Ford Date/Time 3-18-22 0700

KES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE Thermo

MODEL: TVA1000 EQUIPMENT #: 5 SERIAL #: 4919480

MONITORING DATE: 3-3-22 TIME: 0750

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1 ppm	3 ppm	2 ppm

Background Value = 2 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	501 ppm	450 ppm	12
#2	502 ppm	450 ppm	8
#3	502 ppm	450 ppm	10
Calculate Response Time (1+2+3)/3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	1.0 ppm	501 ppm	500.00
#2	.50 ppm	502 ppm	501.50
#3	.50 ppm	502 ppm	501.50
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			1% #DIV/0! Must be less than 10%

Performed By: Shawn Hershey Date/Time: 3-3-22 / 0750

RIES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA1000 EQUIPMENT #: 4 SERIAL #: 1631 8830

MONITORING DATE: 3-3-22 TIME: 0750

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1 ppm	5 ppm	2 ppm

Background Value = 2 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	500 ppm	450 ppm	8
#2	502 ppm	450 ppm	12
#3	502 ppm	450 ppm	10
Calculate Response Time (1+2+3)/3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	1.0 ppm	500 ppm	499.00
#2	1.0 ppm	502 ppm	501.00
#3	1.50 ppm	502 ppm	500.50
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			1% #DIV/0! Must be less than 10%

Performed By: Shawn Hershey Date/Time: 3-3-22 / 0750

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA1000 EQUIPMENT #: 3 SERIAL #: 1586588 9

MONITORING DATE: 3-3-22 TIME: 0750

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1 ppm	2 ppm	1.5 ppm

Background Value = 1.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	501 ppm	450 ppm	9
#2	502 ppm	450 ppm	10
#3	501 ppm	450 ppm	11
Calculate Response Time (1+2+3) / 3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 **ppm**

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	1.0 ppm	501 ppm	500.00
#2	.0 ppm	502 ppm	502.00
#3	.50 ppm	501 ppm	500.50
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1 / 500 X 100 / 1			1% #DIV/0! Must be less than 10%

Performed By: Shawn Hershey Date/Time: 3-3-22 / 0750

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA 1000 EQUIPMENT #: 6 SERIAL # 0782023627

MONITORING DATE: 3-3-22 TIME: 0750

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1 ppm	2 ppm	1.5 ppm

Background Value = 1.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	501 ppm	450 ppm	7
#2	505 ppm	450 ppm	10
#3	501 ppm	450 ppm	13
Calculate Response Time (1+2+3) / 3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 **ppm**

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	.50 ppm	501 ppm	500.50
#2	.50 ppm	502 ppm	502.50
#3	1.50 ppm	501 ppm	499.50
Calculate Precision	[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1		1% #DIV/0! Must be less than 10%

Performed By: Shawn Hurshey Date/Time: 3-3-22/0750

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA 1000 EQUIPMENT #: 1 SERIAL #: 16320832

MONITORING DATE: 3-3-22 TIME: 0750

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1 ppm	3 ppm	2 ppm

Background Value = 2 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	500 ppm	450 ppm	7
#2	501 ppm	450 ppm	13
#3	501 ppm	450 ppm	10
Calculate Response Time (1+2+3)/3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 **ppm**

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	.50 ppm	500 ppm	499.50
#2	.50 ppm	501 ppm	500.50
#3	1.0 ppm	501 ppm	500.00
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			1% #DIV/0! Must be less than 10%

Performed By: Shawn Hershey Date/Time: 3-3-22 / 0750

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi valley INSTRUMENT MAKE: Thermo

MODEL: TVA 1000 EQUIPMENT #: 2 SERIAL #: 7784545

MONITORING DATE: 3-3-22 TIME: 0750

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1 ppm	2 ppm	1.5 ppm

Background Value = 1.5 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	502 ppm	450 ppm	8
#2	503 ppm	450 ppm	12
#3	501 ppm	450 ppm	10
Calculate Response Time (1+2+3) / 3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	1.0 ppm	502 ppm	501.00
#2	1.0 ppm	503 ppm	502.00
#3	.50 ppm	501 ppm	500.50
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			1% #DIV/0! Must be less than 10%

Performed By: Shawn Hershey Date/Time: 3-3-22 / 0750

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA 1000 EQUIPMENT #: 6 SERIAL #: 0720723626

MONITORING DATE: 3-2-22 TIME: 0800

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
2 ppm	3 ppm	2.5 ppm

Background Value = 2.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	503 ppm	450 ppm	8
#2	502 ppm	450 ppm	10
#3	500 ppm	450 ppm	12
Calculate Response Time (1+2+3)/3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 **ppm**

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	1.50 ppm	503 ppm	501.50
#2	1.50 ppm	502 ppm	501.50
#3	1.0 ppm	500 ppm	499.00
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			1% #DIV/0! Must be less than 10%

Performed By: Shawn Hershey Date/Time: 3-2-22 / 0800

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA 1000 EQUIPMENT #: 1 SERIAL #: 1632832

MONITORING DATE: 3-2-22 TIME: 0800

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1 ppm	3 ppm	2 ppm

Background Value = 2 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	500 ppm	450 ppm	8
#2	502 ppm	450 ppm	12
#3	501 ppm	450 ppm	10
Calculate Response Time (1+2+3) / 3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.0 ppm	500 ppm	500.00
#2	1.0 ppm	502 ppm	501.00
#3	1.0 ppm	501 ppm	500.00
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			1 % #DIV/0! Must be less than 10%

Performed By: Shawn Hershey Date/Time: 3-2-22 / 0800

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE Thermo

MODEL: TVA 1000 EQUIPMENT #: 2 SERIAL #: 7784545

MONITORING DATE: 3-2-22 TIME: 0800

Calibration Procedure:

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1 ppm	2 ppm	1.5 ppm

Background Value = 1.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	501 ppm	450 ppm	9
#2	501 ppm	450 ppm	11
#3	500 ppm	450 ppm	10
Calculate Response Time (1+2+3) / 3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 **ppm**

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	.50 ppm	501 ppm	500.50
#2	1.0 ppm	501 ppm	500.00
#3	0.0 ppm	500 ppm	500.00
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			1% #DIV/0! Must be less than 10%

Performed By: Shawn Hershey Date/Time: 3-2-22 / 0800

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA1000 EQUIPMENT #: 3 SERIAL #: 1586588Y

MONITORING DATE: 3-2-22 TIME: 0800

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1 ppm	2 ppm	1.5 ppm

Background Value = 1.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	502 ppm	450 ppm	7
#2	502 ppm	450 ppm	15
#3	501 ppm	450 ppm	60
Calculate Response Time (1+2+3) / 3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 **ppm**

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	.50 ppm	502 ppm	501.50
#2	.50 ppm	502 ppm	501.50
#3	.0 ppm	501 ppm	501.00
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			1% #DIV/0! Must be less than 10%

Performed By: Shawn Hershey Date/Time: 3-2-22/0820

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CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA 1000 EQUIPMENT #: 5 SERIAL #: 4918480

MONITORING DATE: 3-2-22 TIME: 0800

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1 ppm	3 ppm	2 ppm

Background Value = 2 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	501 ppm	450 ppm	8
#2	501 ppm	450 ppm	7
#3	503 ppm	450 ppm	9
Calculate Response Time (1+2+3) / 3			8 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	.50 ppm	501 ppm	500-50
#2	.50 ppm	501 ppm	500-50
#3	1.0 ppm	503 ppm	502.00
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			1 % #DIV/0! Must be less than 10%

Performed By: Shawn Hershey Date/Time: 3-2-22 / 0800

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CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA 1000 EQUIPMENT #: 4 SERIAL #: 1631B830

MONITORING DATE: 3-2-22 TIME: 0800

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 520 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1 ppm	3 ppm	2 ppm

Background Value = 2 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	500 ppm	450 ppm	10
#2	503 ppm	450 ppm	12
#3	502 ppm	450 ppm	8
Calculate Response Time (1+2+3) / 3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 **ppm**

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	.50 ppm	500 ppm	499.50
#2	1.0 ppm	503 ppm	502.00
#3	.50 ppm	502 ppm	501.50
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			1 #DIV/0! Must be less than 10%

Performed By: Shawn Hershey Date/Time: 3-2-22/0800

RES
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CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA1000 EQUIPMENT #: 4 SERIAL #: 1035041557 1

MONITORING DATE: 3-16-22 TIME: 0800

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 501 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1 ppm	3 ppm	2 ppm

Background Value = _____ ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	501 ppm	450 ppm	7
#2	502 ppm	450 ppm	13
#3	500 ppm	450 ppm	10
Calculate Response Time (1+2+3)/3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	1.0 ppm	502 ppm	501.00
#2	2.0 ppm	503 ppm	502.00
#3	1.0 ppm	500 ppm	498.00
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			#DIV/0! Must be less than 10%

Performed By: Tamara Ando Date/Time: 3.10.22 / 0800

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CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA1000 EQUIPMENT #: 13 SERIAL #: 1102746775

MONITORING DATE: 3-31-22 TIME: 0700

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 501 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
2.6 ppm	3.6 ppm	3.1 ppm

Background Value = 3.1 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	503 ppm	450 ppm	6
#2	503 ppm	450 ppm	6
#3	501 ppm	450 ppm	7
Calculate Response Time (1+2+3)/3			6.3 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 **ppm**

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.87 ppm	503 ppm	3
#2	0.80 ppm	503 ppm	3
#3	0.84 ppm	501 ppm	1
Calculate Precision	[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1		0.4% #DIV/0! Must be less than 10%

Performed By Michael Ortiz Date/Time 3-31-22/0700

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CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME: Simi Valley INSTRUMENT MAKE: Thermo

MODEL: TVA 1000 EQUIPMENT #: #36 SERIAL #: 0336603195

MONITORING DATE: 3-25-22 TIME: 0625

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1 ppm	3 ppm	1.5 ppm

Background Value = 1.5 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	26 ppm	23.5 ppm	12
#2	28 ppm	23.5 ppm	8
#3	25 ppm	23.5 ppm	10
Calculate Response Time (1+2+3)/3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	1.34 ppm	26 ppm	24.66
#2	1.52 ppm	28 ppm	26.48
#3	1.72 ppm	25 ppm	23.28
Calculate Precision	[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1		.9% #DIV/0! Must be less than 10%

Performed By: Tony Lewis Date/Time: 3 25 22

RES
Environmental

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME Simi Valley INSTRUMENT MAKE THermo

MODEL TVA1000 EQUIPMENT # 25 SERIAL # 7705062

MONITORING DATE 3-10-22 TIME

Calibration Procedure:

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1 ppm	2 ppm	2 ppm

Background Value = 1.5 **ppm**

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	25 ppm	22.5 ppm	9
#2	25 ppm	23.5 ppm	10
#3	25 ppm	23.5 ppm	12
Calculate Response Time (1+2+3) / 3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 **ppm**

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.0 ppm	25 ppm	25.00
#2	0.0 ppm	25 ppm	25.00
#3	0.0 ppm	25 ppm	25.00
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1			1 #DIV/0! Must be less than 10%

Performed By: Date/Time: 3-10-22

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME Simi Valley INSTRUMENT MAKE Thelmo

MODEL TVA1000 EQUIPMENT #: 28 SERIAL #: 7705062

MONITORING DATE 3-9-22 TIME 0700

Calibration Procedure:

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: (Upwind + Downwind) / 2
1 ppm	2 ppm	2 ppm

Background Value = 1.5 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	2.5 ppm	23.5 ppm	8
#2	2.5 ppm	23.5 ppm	10
#3	2.5 ppm	23.5 ppm	12
Calculate Response Time (1+2+3)/3			10 #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	0.0 ppm	25 ppm	25.00
#2	0.0 ppm	25 ppm	25.00
#3	0.0 ppm	25 ppm	25.00
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1			1 #DIV/0! Must be less than 10%

Performed By: _____ Date/Time 3-9-22

RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Van #1

SERIAL NUMBER: 16320832

TECHNICIAN: [illegible] DATE: 1-7-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.78	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #2

SERIAL NUMBER: 7784545

TECHNICIAN: [signature] DATE: 1-7-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	99	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.62	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Van #3

SERIAL NUMBER: 15865884

TECHNICIAN: M Abts DATE: 1-7-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	99	+/- 25
500	500	499	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.64	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #4

SERIAL NUMBER: 1631830

TECHNICIAN: M Ibbotts DATE: 1-7-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,001	+/- 2500
< 1	ZERO GAS	0.64	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #5

SERIAL NUMBER: 4919480

TECHNICIAN: M Hibbits DATE: 1-7-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.51	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #6

SERIAL NUMBER: 0720723626

TECHNICIAN: M Robbins DATE: 1-7-22

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	99	+/- 25
500	500	501	+/- 125
10000	10000	10,200	+/- 2500
< 1	ZERO GAS	0.65	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

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