Director of Compliance and Enforcement Bay Area Air Quality Management District 375 Beale Street, Suite 600 San Francisco, CA 94105 Attn: Title V Reports Director of the Air Division, USEPA Region IX
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TV Tracking #: 786

1. D RECEIVED IN ENFORCEMENT: 08/30

Subject: Combined NESHAP/NSPS Report, 8-34 Semi-Annual Report, 40 CFR Subpart AAA

Semi-Annual Report, and Title V Semi-Annual Monitoring Report

Sonoma County Central Landfill, Petaluma, California (Title V Facility No. A2254)

Dear Sir or Madam:

Republic Services of Sonoma County, Inc. is pleased to submit the enclosed combined National Emission Standards for Hazardous Air Pollutants (NESHAP)/ New Source Performance Standards (NSPS) Report, Bay Area Air Quality Management District (BAAQMD), Regulation 8, Rule 34 Semi-Annual Report; Semi-Annual Startup, Shutdown and Malfunction (SSM) Plan Report, and Title V Semi-Annual Monitoring Report to the BAAQMD and the U.S. Environmental Protection Agency (EPA) Region IX for the Sonoma County Central Landfill (Sonoma Central).

The combined NESHAP/NSPS, Title V Semi-Annual Monitoring Report, the BAAQMD Rule 8-34 Semi-Annual Report, and the SSM Plan Report covers the period from February 1, 2023 through July 31, 2023.

The Title V reports meet the requirements specified in the Title V permit, BAAQMD guidance on Title V report submittals, and Regulation 2, Rule 6. The Rule 8-34 report includes the information required by BAAQMD Rule 8-34-411 and also satisfies the requirements under the New Source Performance Standards (NSPS) for municipal solid waste landfills (40 Code of Federal Regulation [CFR] Part 60, Subpart WWW), including 40 CFR 60.757(f). The Semi-Annual SSM Plan Report satisfies the requirements under the Maximum Achievable Control Technology (MACT) rule for semi-annual reporting of SSM Plan implementation including 40 CFR 63.10(d)(S). The Title V reports and the SSM Plan report each includes a certification by the responsible official for Sonoma Central.

If you have any questions regarding this submittal, please do not hesitate to call me at (510) 301-9387 or email me at DCheney@republicservices.com.

Sincerely,

Derek Cheney Environmental Manager Sonoma Central Landfill

cc: Ken Lewis, Sonoma Central Maria Bowen, SCS Engineers NESHAP/NSPS/BAAQMD Rule 8-34 Semi-Annual Report, SSM Plan Semi-Annual Report, and Title V Semi-Annual Report Sonoma County Central Landfill Petaluma, California (Title V Facility No. A2254)

Prepared for:



Republic Services of Sonoma County, Inc. 500 Mecham Road Petaluma, CA 94952

For Submittal to:

Bay Area Air Quality Management District 375 Beale Street, Suite 600 San Francisco, CA 94105

SCS ENGINEERS

01213327.01 Task 1 | August 2023

3900 Kilroy Airport Way, Suite 100 Long Beach, CA 90806 562-426-9544 This submittal consisting of the National Emission Standards for Hazardous Air Pollutants (NESHAP)/New Source Performance Standards (NSPS)/Bay Area Air Quality Management District (BAAQMD) Rule 8-34 Semi-Annual Report, the Semi-Annual Startup, Shutdown, and Malfunction Plan Report, and the Title V Semi-Annual Monitoring Report for the Sonoma County Central Landfill in Petaluma, California, dated August 2023, was prepared and reviewed by the following:

Meghan Caesar Project Professional

SCS ENGINEERS

Maria Bowen Project Manager

SCS ENGINEERS

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Senior Vice President

SCS ENGINEERS

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SECTION I. NESHAP/NSPS/BAAQMD RULE 8-34 SEMI-ANNUAL REPORT

1.0 INTRODUCTION

On behalf of Republic Services of Sonoma County, Inc. (Republic), SCS Engineers (SCS) prepared this combined National Emission Standards for Hazardous Air Pollutants (NESHAP), New Source Performance Standard (NSPS), 40 Code of Federal Regulations (CFR) Part 60, Subpart WWW, Bay Area Air Quality Management District (BAAQMD or District) Rule 8-34 Semi-Annual Report (SAR) pertaining to the Sonoma County Central Landfill (Sonoma Central) for the period of February 1, 2023 through July 31, 2023 to the BAAQMD and the United States Environmental Protection Agency (EPA).

The Semi-Annual Report pertains to the landfill gas (LFG) collection and control system (GCCS) operated at the Sonoma County Central Landfill (Sonoma Central).

1.1 UPDATED NESHAP 40 CFR 63, SUBPART AAAA

As of June 21, 2021, the facility complies with the new Emission Guidelines (EG) requirements in California. The approved state plan for the EG includes compliance with Title 17 California Code of Regulations (CCR) Sections 95460 to 95476, known as AB 32 Landfill Methane Rule (LMR) and specific portions of 40 CFR Part 62 Subpart 000.

Due to the site's permitted design capacity being over the 2.5 million Megagram/2.5 million cubic meter limits and having an uncontrolled non-methane organic compound (NMOC) content exceeding 50 Megagrams per year (mg/year), as of September 27, 2021, Sonoma Central became subject to the updated landfill NESHAP under 40 CFR 63, Subpart AAAA requirements. The NESHAP implements and enhances provisions of 40 CFR 60, Subparts XXX (which were updated NSPS for Municipal Solid Waste (MSW) landfills promulgated in 2016) as well as removes the SSM Plan requirements. However, because the Title V Permit references Subpart WWW and SSM, this semi-annual report will continue to include Subpart WWW and SSM requirements. References to Subpart WWW and SSM will be removed from all reports after a new Title V Permit is issued removing references to Subpart WWW and updating applicable regulations, or we otherwise obtain approval from the BAAQMD to only comply with the new requirements. Sonoma Central has chosen to comply with equivalent provisions of Subpart AAAA in lieu of Subpart 000 and WWW, as allowed by the regulations.

For the reporting period from February 1, 2023 through July 31, 2023, this Semi-Annual Report complies with the sections specified in Subpart WWW, 40 CFR 60.757(f), and Subpart AAAA, 40 CFR 63.1981(h), which describes the items to be submitted in an annual report for landfills using an active collection system. Moreover, this report also includes SSM reporting as it is listed in the Title V Permit, even though it is no longer contained in NESHAP Subpart AAAA. In accordance with NESHAP 40 CFR 63, Subpart AAAA, this report is submitted semi-annually. This report includes a certification signed by a Responsible Official which is provided in Appendix A.

2.0 SITE BACKGROUND INFORMATION

Sonoma Central is a municipal solid waste (MSW) landfill located in Petaluma, California and is operated by Republic. The approximately 170-acre landfill began accepting waste circa 1971 and is currently in operation.

2.1 EXISTING AIR PERMITS

Sonoma Central maintains a BAAQMD permit to operate (PTO) (Plant No. 22987). PTO Condition No. 4044 includes requirements for the wellfield, collection system, and A-4 Flare station, as well as waste and cover material dumping (S-22) and landfill excavating, bulldozing, and compacting activities (S-23). PTO Condition No. 19933 includes requirements for the ten LFG-fired internal combustion (IC) engines (S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, and S-14). The PTO also has conditions for a LFG compression plant (S-15) (Condition No. 23087) and a 195 horsepower (HP) portable propane tipper engine (S-24) (Condition No. 26171). Please note on September 21, 2021, the S-24 Tipper Engine was removed from the site and replaced with a 49 HP engine. On September 28, 2021, an application was submitted to remove the S-24 language from the PTO.

Condition No. 4044 incorporates all applicable requirements from NSPS Subpart WWW and from BAAQMD Rule 8-34, which are addressed in this report. Sonoma also maintains a Major Facility Review (MFR or Title V) Permit (Facility No. A2254), which was most recently issued on June 9, 2021, expiring on June 8, 2026.

A GCCS Design Plan was prepared for the site to review and determine the adequacy of the existing LFG system. The current design of the system was determined to be adequate to comply with both NSPS and BAAQMD Rule 8-34 requirements. The system design is based on the density of wells calculated to sufficiently extract the maximum flow of LFG generated for the life of the landfill and GCCS equipment, according to the EPA LFG emissions model (LandGEM). The GCCS is designed to control surface emissions, as well as to minimize subsurface lateral migration of LFG. Both the perimeter of the landfill and the landfill surface are monitored on a quarterly basis. Additional details regarding the GCCS are in the GCCS Design Plan that was previously submitted to the BAAQMD. A drawing showing the existing GCCS is provided in **Appendix B**.

2.2 EXISTING LANDFILL GAS COLLECTION AND CONTROL SYSTEM

The GCCS at Sonoma Central consists of extraction wells used to collect the LFG from within the landfill (the "wellfield") and a piping system (the "collection system") used to convey the collected LFG to the control systems for destruction. The LFG is extracted from the landfill through a combination of vertical gas extraction wells and horizontal gas extraction trenches/pipes, as well as leachate collection system components.

The LFG is controlled by the emission control system. The emission control system consists of a LFG-to-energy (LFGTE) facility, which consists of ten IC engines (S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, and S-14), and an enclosed backup flare (A-4).

The A-4 Flare was installed on December 12, 2017 and replaced the A-3 Flare. The A-4 Flare is now the backup flare to the engines at the landfill. Engine No. 10 (S-14) is on long-term standby pursuant to BAAQMD Application No. 22513.

A diagram of the GCCS displaying system component locations is shown in the site plan provided in **Appendix B**.

3.0 MONITORING AND RECORDS

This NSPS Semi-Annual Report for Sonoma is being submitted to the BAAQMD and EPA in compliance with 40 CFR Subpart WWW ("NSPS"), including 40 CFR 60.757(f), which describe the items to be submitted in an annual report for landfills seeking to comply with NSPS using an active collection system. In compliance with 40 CFR 63, Subpart AAAA (NESHAP for MSW Landfills), this report is submitted semi-annually.

This section of the report represents the Semi-Annual Monitoring Report and covers the items required to be reported in the applicable rules under 40 CFR Part 60, Subpart WWW and 40 CFR Part 63, Subpart AAAA. The reporting period is from February 1, 2023 through July 31, 2023. The table below summarizes the corresponding sections for the regulatory references addressed in this report:

Reporting Requirements, Corresponding Regulatory References

NSPS Subpart WWW	Updated NESHAP Subpart AAAA
40 CFR 60.757(f), (g)	40 CFR 63.1981(h), (i), (j), (k), (l)
Value and length of time for exceedance of applicable parameters monitored under 40 CFR 60.756(a), (b), (c), and (d).	Number of times that applicable parameters monitored under 40 CFR 63.1958(b), (c), and (d) were exceeded and when the gas collection and control system was not operating under 40 CFR 63.1958(e), including periods of SSM.
Description and duration of all periods when the gas stream is diverted from the control device.	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 40 CFR 63.1961.
Description and duration of all periods when the control device was not operating for more than 1 hour.	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.
All periods when the collection system was not operating in excess of 5 days.	All periods when the collection system was not operating.
The location of each 500 ppmv methane exceedance, and the concentration recorded at each location for which an exceedance was recorded in the previous month.	The location of each exceedance of the 500-ppm methane concentration as provided in 40 CFR 63.1958(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month.
The date of installation and the location of each well or collection system expansion added pursuant to 40 CFR 60.755 paragraphs (a)(3), (b), and (c)(4).	The date of installation and the location of each well or collection system expansion added pursuant to 40 CFR 63.1960(a)(3) and (4), (b), and (c)(4).
Required information of the initial performance source test report pursuant to 40 CFR 60.757(g).	Required information of the initial performance source test report pursuant to 40 CFR 63.1981(i).

NSPS Subpart WWW	Updated NESHAP Subpart AAAA
40 CFR 60.757(f), (g)	40 CFR 63.1981(h), (i), (j), (k), (l)
	For any corrective action analysis for which corrective actions are required in 40 CFR 63.1960(a)(3)(i) or (a)(5) and that take more than 60 days to correct the exceedance, the root cause analysis conducted.
_	Each owner or operator required to conduct enhanced monitoring in 40 CFR 63.1961(a)(5) and (6) must include the results of all monitoring activities conducted during the period.
	Where an owner or operator subject to the provisions of subpart 40 CFR 63.1981(k) seeks to demonstrate compliance with the operational standard for temperature in § 63.1958(c)(1) and a landfill gas temperature measured at either the wellhead or at any point in the well is greater than or equal to 76.7 degrees Celsius (170 degrees Fahrenheit) and the carbon monoxide concentration measured is greater than or equal to 1,000 ppmv, then you must report the date, time, well identifier, temperature and carbon monoxide reading via email to the Administrator within 24 hours of the measurement.
	Beginning no later than September 27, 2021, the owner or operator must submit reports electronically according to paragraphs 40 CFR 63.1981(I)(1) and (2) of this section.
	Submit semi-annual CMS summary reports including required items listed in 40 CFR 63.10(e)(3)(vi)

3.1 CONTINUOUSLY MONITORED PARAMETERS

According to BAAQMD Rule 8-34-301.1, the GCCS must be operated continuously. To comply with this requirement, the landfill owner/operator is required to maintain full-time operation of the LFG collection system and control system, as well as individual extraction wells. Downtime for any of these components must be reported in the Rule 8-34 Semi-Annual Report. This information is summarized below and in the attached tables. Records of continuously monitored parameters are available for review at the site.

3.1.1 Gas Extraction System Downtime

During the reporting period, the LFG extraction system was off-line on ten (10) occasions for a total of 7.83 hours. Shutdowns involved pre-programmed or manual system shutdowns for inspection, maintenance and/or repair of the GCCS, and thus meet the criteria for allowed GCCS downtime, as specified in Rule 8-34-113 and in accordance with the BAAQMD November 5, 2018 Compliance Advisory.

A summary of the GCCS downtime for this reporting period is provided in **Table 1a**, including the date, reason for the downtime, description of the corrective measure(s) implemented to resume GCCS operation, and the total elapsed time for each event. Gas extraction system downtime records are available for review at the site. These include periods of times when the entire GCCS was offline.

3.1.2 Emission Control System Downtime

A-4 Flare

During the reporting period, the A-4 Flare was off-line on several occasions. A summary of the A-4 Flare downtime is provided in **Table 1b**, including the date, reason for the downtime, and the total elapsed time for each event. During the reporting period, downtime for the A-4 Flare occurred over a cumulative period of approximately 33.37 hours. Emission control system downtime records are available for review at the site.

LFGTE Facility

During the reporting period, individual IC engines were offline on several occasions. In addition, there were multiple periods when the entire LFGTE facility was offline (all engines were offline concurrently). Note that Engines 4 (S-7), 5 (S-9), 6 (S-10), 7 (S-11), and Engine 9 (S-13) were intermittently out of service during the reporting period due to necessary equipment upgrades. In addition, Engine 10 (S-14) is on long-term standby. During the reporting period, the entire LFGTE facility was offline for a total of 217.47 hours. Downtime logs, which include individual IC engine shut downs, are included in **Appendix C**.

3.1.3 Individual Well Downtime

In some instances, the entire GCCS may not go off-line, but individual extraction wells may be taken off-line for inspection, maintenance, and/or repair, as well as for other unforeseen circumstances. These are generally planned events, although such events can occur without notice. Well SCHC2001 has an approved less-than-continuous operation condition in the Permit to Operate.

Wells SCV215-0, SCV087-5B, and SCV116-A were abandoned during the reporting period due to a pinched lateral and construction activities.

During the reporting period, there were no new wells started up.

Pursuant to Permit Condition No. 4044, Part 4b(iv) and (v), the owner/operator must notify the District at least three days prior to initiating operation of a well or collector and no later than three

working days after the disconnection of a component. These notifications were submitted to the BAAQMD for the well actions noted above, as required. In addition, pursuant to permit condition No. 4044, Part 4b(vii), if there is a net reduction (number of decommissioned components minus the number of installed components) of more than five components during a 120-day period, a comprehensive decommissioning notice must be submitted to the BAAQMD. This requirement was not applicable during the reporting period, therefore comprehensive decommissioning notices were not required to be submitted to the BAAQMD.

Details of individual well shutdown and well startups occurring during the reporting period are provided in **Table 2**. All downtime was in compliance with Rule 8-34.

3.1.4 Flow Meter and Temperature Gauge Downtime

The continuous operation of the GCCS is measured through the continuous measurement of LFG flow to each flare and flare combustion temperature. As required by Rule 8-34, the A-4 Flare at Sonoma Central is equipped with flow measuring devices and temperature gauges that provide continuous readout displays using digital chart recorders. During the reporting period, the flow meter(s) and temperature gauge(s)/recorders at the flare station did not go out of operation due to malfunction or other breakdown conditions.

Continuous monitoring and calibration information are available for review at the site.

3.1.5 Flare Combustion Zone Temperature

Sonoma Central is required by permit condition No. 4044, Part 10 to operate the A-4 Flare in such a manner that the combustion zone temperature within the flare does not drop below the permitted limit of 1,599 degrees Fahrenheit (°F) (averaged over a 3-hour period), or a higher or lower temperature based on the most recent source test.

During the reporting period, the minimum temperature above which the flare was required to operate was 1,600°F based on the January 12, 2023 source test results (average test result of 1,650°F minus 50°F). Please note that under the updated NESHAP rules, the requirement is the source test temperature minus 82°F, but as BAAQMD Rule 8-34 and NSPS WWW are still in Sonoma's permit, we will continue to comply with the source test temperature minus 50°F temperature limit.

Flare temperature records are available for review at the site. A summary of results from the January 12, 2023 source test for the flare (report dated March 6, 2023) is provided in **Appendix D**.

3.2 COMPONENT LEAK QUARTERLY MONITORING

During the reporting period, quarterly testing of the GCCS components for any leaks with a methane concentration of greater than 1,000 parts per million by volume (ppmv), as required by BAAQMD Rule 8-34-503, was conducted. Testing in the wellfield and at the flare station was performed using an organic vapor analyzer (OVA), which was calibrated on the same day as the testing. Monitoring results are provided in **Appendix D** and are available for review at the site.

3.2.1 Fourth Quarter 2022 Monitoring

SCSFS personnel conducted the component leak monitoring of the flare station and the LFGTE Plant on October 5, 2022. One (1) component leak above 1,000 ppmv was detected at the LFGTE facility during fourth quarter 2022 monitoring events. Site initiated corrective actions and re-monitoring was completed on October 12, 2022. Methane concentrations were below the limit of 1,000 ppmv and remained below the limit at the 30-day re-monitoring completed on November 4, 2022.

As of submittal of the previous semi-annual report, the fourth quarter 2022 SEM report was in review. Therefore, a copy of the final report, including the component leak monitoring results, is provided **Appendix E** of this submittal.

3.2.2 First Quarter 2023 Monitoring

SCS Field Services (SCSFS) personnel conducted component leak monitoring of the flare station and the LFGTE facility on January 30, 2023. No component leaks above 1,000 ppmv were detected at the flare station, wellfield, or LFGTE facility during the first quarter 2023 monitoring event. These results are included in **Appendix E**.

3.2.3 Second Quarter 2023 Monitoring

SCS Field Services (SCSFS) personnel conducted component leak monitoring of the flare station and the LFGTE facility on April 25 and May 2, 2023. Two component leaks above 1,000 ppmv were detected at the LFGTE facility. No readings were above 1,000 ppmv at the flare station or wellfield during the second quarter 2023 monitoring event. Corrective actions were initiated upon discovery and subsequent re-monitoring was conducted on May 10, 12, and 18, 2023 and no further exceedances were detected. These results are included in **Appendix E**.

3.3 CONTROL EFFICIENCY

Flare A-4

LFG Flare A-4 was tested on January 12, 2023 to demonstrate compliance with the control efficiency standard of 98 percent non-methane organic compound (NMOC) destruction efficiency or outlet concentration of 30 ppmv of NMOC as methane, corrected to 3% oxygen (for flares) as required by BAAQMD Rules 8-34-301.3, 8-34-412, and 8-34-501.4. The NMOC destruction efficiency for the A-4 Flare during the January 12, 2023 source test was measured to be greater than (>) 99.46 percent by weight, and the NMOC as methane concentration in the flare outlet was less than (<) 1.7 ppmv. As such, Flare A-4 is in compliance with the aforementioned rules.

Excerpts from the January 2023 source test report dated March 6, 2023, summarizing the test results are provided **Appendix D**.

IC Engines

The IC engines are required to demonstrate compliance with the control efficiency standard of 97 percent NMOC destruction efficiency or outlet concentration of 120 ppmv of NMOC as methane, corrected to 3% oxygen (for energy recovery devices) as required by BAAQMD Rules 8-34-301.4, 8-34-412, and 8-34-501.4. The most recent source testing results for these engines are summarized

below. All engines met the outlet concentration limit of 120 ppmv of NMOC as methane, corrected to 3% oxygen during the most recent source tests.

Engine	Source Test Date	Results (ppm @ 3% O ₂)
1 (S-4)	July 28, 2021	125.6*
2 (S-5)	December 6, 2021	91.9
3 (S-6 ¹)	November 6, 2020	99.8
4 (S-7¹)	October 21, 2020	<32
5 (S-9)	March 12, 2021	109.3
6 (S-10)	April 29, 2021	95.7
7 (S-11)	April 26, 2021	74.8
8 (S-12 ²)	January 12, 2021	122.8*
9 (S-13)	February 20, 2018**	40.97

¹ Per the Lead Power Plant Operator of the LFGTE facility, the S-6, S-7, and S-12 engines were not source tested the previous reporting period as they are currently out of service pending overhaul. Once the engines are brought back into service, they will be promptly source tested in 2022.

There was no IC engine source testing conducted during the reporting period. Following correspondence with Mr. Marco Hernandez with the Source Test Division of the BAAQMD on March 21, 2022, he recommended to not perform source testing of the engines until upgrades to all the engines are made. Upgrades for the facility as required by the Source Test Division of the BAAQMD were initiated on March 28, 2022, and expected to be completed by December 31, 2023. Source testing for the engines will commence once upgrades are completed.

3.4 LANDFILL SURFACE EMISSIONS MONITORING

Surface emissions monitoring (SEM) was conducted at Sonoma Central on a quarterly basis during the reporting period, in accordance with BAAQMD Rule 8-34-303 and 8-34-506. The SEM events were conducted in accordance with the SEM plan in the landfill's GCCS Design Plan. Testing was performed using a Trimble SiteFID Landfill Gas Monitor Portable Flame Ionization Detector (FID), which was calibrated the same day as the testing. The results of this monitoring are summarized below. Reports for each quarterly monitoring event are provided in **Appendix D**.

3.4.1 Fourth Quarter 2022 Monitoring

SCSFS personnel monitored the landfill surface for leaks with a methane concentration of greater than 500 ppmv above background on October 5, 6, and 7, 2022. Surface emissions in excess of 500 ppmv were detected at twenty-five (25) locations during the fourth quarter 2022 monitoring event. System adjustments and repair work was performed by site personnel. The subsequent 10-day re-monitoring event, which was conducted on October 14, 2022, indicated that all areas with instantaneous exceedances had returned to compliance. One-month re-monitoring was conducted on November 4, 2022, as required by NSPS, and all locations remained in compliance.

^{*}NMOC outlet concentration exceeds the limit but falls within 10% of the permitted limit and is considered in compliance per BAAQMD Resolution No. 1390.

^{**}Note 2019 and 2020 source tests for S-13 were unable to be completed due to mechanical issues. S-13 has been offline since 2019 and will be tested once repairs are completed.

As of submittal of the previous semi-annual report, the fourth quarter 2022 SEM report was in review. The final report, including the locations with exceedances and associated methane concentrations are provided in **Appendix E**.

3.4.2 First Quarter 2023 Monitoring

SCSFS personnel monitored the landfill surface for leaks with a methane concentration of greater than 500 ppmv above background on January 30, 31 and February 1, 2023. Surface emissions in excess of 500 ppmv were detected at four (4) locations during the First Quarter 2023 monitoring event. System adjustments and repair work was performed by site personnel. The subsequent 10-day re-monitoring event, which was conducted on February 9, 2023, indicated that all areas with instantaneous exceedances had returned to compliance. One-month re-monitoring event was conducted on March 1, 2023, as required by NSPS and all locations remained in compliance.

The locations with the exceedances and associated methane concentrations are provided in the First Quarter 2023 SEM report (**Appendix E**).

3.4.3 Second Quarter 2023 Monitoring

SCSFS personnel monitored the landfill surface for leaks with a methane concentration of greater than 500 ppmv above background on April 24 and 25, 2023. Surface emissions in excess of 500 ppmv were detected at twenty-two (22) locations during the Second Quarter 2023 monitoring event. System adjustments and repair work was performed by site personnel. The subsequent 10-day remonitoring event, which was conducted on May 2, 3, 10, and 12, 2023, indicated that all areas with instantaneous exceedances had returned to compliance. One-month re-monitoring event was conducted on May 17 and 18, 2023, as required by NSPS and all locations remained in compliance.

The locations with the exceedances and associated methane concentrations are provided in the Second Quarter 2023 SEM report (**Appendix E**).

3.5 WELLHEAD MONTHLY MONITORING

Monthly wellhead monitoring for pressure, temperature, and oxygen content was conducted by SCSFS personnel during the reporting period to comply with BAAQMD Rule 8-34-305 and 9-34-414. The results of this monitoring are summarized below.

3.5.1 Pressure

The majority of the operational extraction wells were under negative pressure during the monitoring events conducted during the reporting period, in accordance with BAAQMD Rule 8-34-305 and 8-34-414. For any wells that exhibited positive pressure during this reporting period, the identification number and dates on which each well was operating with positive pressure are provided in **Table 3**. The table also includes corrective action and re-monitoring results. In all instances, corrective action and re-monitoring were performed in accordance with the 5- and 15-day requirements specified in the NSPS/NESHAP regulations and in Rule 8-34.

A total of nine (9) wells demonstrated positive pressure readings at the end of the reporting period. The wells will be returned under negative pressure by its applicable compliance date, as specified in

BAAQMD Rule 8-34-414, and compliance will be documented in the next semi-annual report. Pressure exceedances, which were corrected during the reporting period, were corrected within 60 days.

As of the end of the previous reporting period, well SCV236-0 was operating under positive pressure. The wells were back in compliance within the timeline specified in BAAQMD Rule 8-34-414.

Per 40 CFR 63.1960(a)(3)(i), a "root cause analysis" (RCA) is required if pressure exceedances cannot be corrected in 15 days. An additional "corrective action analysis" (CAA) and notification is required for corrective actions that require more than 60 days to complete. See **Appendix E** for RCA forms, CAA forms, and 75-day notifications.

3.5.2 Oxygen

Sonoma Central has elected to use oxygen as its compliance standard under Rule 8-34-305, rather than nitrogen. Per Sonoma's PTO Condition No. 4044, Part 5(b)i, the oxygen Higher Operating Value (HOV) of 15% is approved for wells: V-058, V-061, V-062, and V-117; EC-9.1, EC-15, EC-19, EC-24, EC-25, EC-26, and EC- 26.1. However, all of these wells have since been permanently decommissioned with the exception of EC-15 and EC-24.

The majority of the wells were operating within the regulatory limit of five (5) percent oxygen (or within 15% oxygen for EC-15 and EC-24) during the monitoring events conducted during the reporting period. The dates when wells were operating with excessive oxygen, and the well identification number, corrective actions, and re-monitoring results for these wells are provided in **Table 4**.

As of the end of the reporting period, all of the operating wells were operating with an oxygen concentration below the 5 percent limit with the exception of fourteen (14) wells. These wells will be returned to below the 5 percent limit by the applicable compliance dates, as specified in BAAQMD Rule 8-34-414, and compliance will be documented in the next semi-annual report.

3.5.3 Temperature

BAAQMD Rule 8-34-305 requires the LFG temperature in each wellhead to measure less than 55 degrees Celsius (°C) or 131°F. However, Condition 4044, Part 5(b)ii in Sonoma's BAAQMD PTO allows Sonoma Central to operate wells SCV107-0, SCV109-0, SCV112-0, SCV113-0, SCV114-0, and SCV115-0, SCV108A, and SCV128A at an alternative temperature of 145°F. However, note that SCV109-0 has been permanently decommissioned. Please note, Subpart AAAA allows wells to be operated in compliance up to 145°F.

The majority of wells were operating within their respective limits of 131°F and 145°F during the monitoring events conducted during the reporting period. The dates when wells were operating above their respective temperature limits, and the well identification number, correction actions, and re-monitoring results for each of these wells are provided in **Table 5**.

As of the end of the reporting period, all wells were operating with a temperature concentration below the 131°F limit with the exception of three (3) wells.

Per 40 CFR 63.1960(a)(4)(i), an RCA is required if temperature exceedances cannot be corrected in 15 days. An additional CAA and notification is required for corrective actions that require more than 60 days to complete. See **Appendix E** for RCA forms, CAA forms, and 75-day notifications.

3.5.4 Corrective Action Analysis

40 CFR 63.1981(j) require notifications for corrective action that will exceed 60 days to implement. Such corrective actions also require a "root cause analysis" (RCA) to determine the reason for the exceedance if exceedances cannot be corrected in 15 days. For corrective actions that require more than 60 days to complete, an additional "corrective action analysis" (CAA) is also required.

During the reporting period, pressure exceedances at SCEW2103, SCV140-0, SCV223-0, and SCEW2016 could not be corrected within 15 days and temperature exceedances at SCV125A0 could not be corrected within 15 days, therefore RCA forms were completed for each well. A pressure exceedance at SCEW2016 could not be remediated within 60 days, which required a 75-day notification submittal. See **Appendix E** for RCA forms, CAA forms, and 75-day notifications.

3.6 24 HOUR HIGH TEMPERATURE

Title 40 CFR 63.1981(k) require the reporting of any LFG temperature measurements greater than or equal to 170°F. During the reporting period, there were no readings greater or equal to 170°F.

3.7 TREATMENT SYSTEM MONITORING PLAN

There are no vents within the treatment system, which allow venting of gas to the atmosphere, and the treatment system is not designed nor equipped to bypass a control device and vent directly to the atmosphere. A calibrated flow meter is installed to measure flow to the treatment system. Treated landfill gas, which cannot be routed for sale or beneficial use, is routed to a control system. Republic maintains and operates all monitoring systems associated with the treatment system in accordance with the site-specific treatment system monitoring plan required by §62.16726(b)(5)(ii) and §63.1983(b)(5)(ii). During this reporting period, per Republic, there were no parameter exceedances of the Treatment System Monitoring Plan.

The LFGTE facility at Sonoma is not equipped with a bypass line.

3.8 COVER INTEGRITY MONITORING

Under BAAQMD Rule 8-34-510 and the NSPS, the landfill surface must be monitored at least monthly for evidence of cracks or other surface integrity issues, which could allow for surface emissions. During the reporting period, cover integrity monitoring was conducted by SCSFS personnel in conjunction with the wellhead monitoring on February 27, March 31, April 28, May 30, June 30, and July 31, 2023. All necessary repairs were implemented in a timely manner. Records of cover integrity monitoring are available for review upon request.

3.9 GAS GENERATION ESTIMATE AND MONTHLY LANDFILL GAS FLOW RATES

Sonoma Central is not subject to Rule 8-34-404 because the Landfill does not operate less than continuously. Therefore, monthly flow data are not required to be reported.

3.10 ANNUAL WASTE ACCEPTANCE RATE AND REFUSE IN PLACE

Sonoma Central is an active landfill that continues to accept refuse for disposal. From February 1, 2023 through July 31, 2023, the site accepted 149,148.26 tons of MSW, resulting in a cumulative waste-in-place total of 18,091,769 as of July 31, 2023.

3.10.1 Non-Degradable Waste Areas

No areas of non-degradable waste deposition are known to exist. There are no landfill areas that are excluded from the collection system requirements. Therefore, BAAQMD Regulation 8-34-501.8 is not applicable.

SECTION II. SSM PLAN REPORT

This Semi-Annual report also meets the requirements of the National Emissions for Hazardous Air Pollutants (NESHAP) for MSW landfills, 40 CFR 63, Subpart AAAA and complies with the requirements specified in Sonoma Central's Title V permit. This Semi-Annual report includes a certification signed by a Responsible Official which is provided in **Appendix A**. In accordance with the NESHAP for Landfills, this report is submitted semi-annually.

Beginning September 27, 2021 the new NESHAP rule went into effect, removing SSM Plan requirements. We would like to close out the SSM Plan report as of September 27, 2021, however due to the NESHAP Subpart AAAA SSM Plan condition in the Title V permit, we reported SSMs for the entire reporting period noted below.

Sonoma Central maintains a SSM Plan which describes the procedures for operating and maintaining the affected elements of the GCCS during startup, shutdown, and malfunction (SSM). The SSM events that occurred during the reporting period of February 1, 2023 through July 31, 2023 are documented below.

- During the reporting period, the GCCS had ten (10) SSM events. Details of these events are included in **Table 1a**.
- During the reporting period, A-4 Flare had fifty-one (51) SSM events. Details of these events are included in **Table 1b**.
- During the reporting period, 126 SSM events occurred at the nine IC Engines (S-4, S-5, S-6, S-7, S-9, S-10, S-11, and S-12). IC Engines S-13 and S-14 did not operate during the reporting period. The IC Engines were shut down and restarted during the reporting period due to the reasons noted in the downtime logs provided in **Appendix C**.
- During the reporting period, three (3) Wellfield SSM events occurred. Details are included **Table 2**.
- During the reporting period, there were no SSM events associated with the LFG monitoring equipment (e.g. flow measuring/recording device, temperature measuring/recording device).
- In all events, automatic systems and operator actions were consistent with the standard operating procedures contained in the SSM Plan. There were no deviations from the SSM plan.
- Exceedances were not identified during the reporting period for any applicable emission limitation in the landfills NESHAP (§63.10(d)(5)(i)).
- Revisions of the SSM Plan to correct deficiencies in the landfill operations or procedures were neither required, nor prepared (§63.6(e)(3)(viii)).
- A copy of the SSM Plan and all revisions/addenda are kept on file at the facility for at least five (5) years and are available to appropriate regulatory agency personnel for inspection.

SECTION III. TITLE V SEMI-ANNUAL REPORT

As specified in 40 Code of Federal Regulation (CFR) Part 70, reports of any required monitoring must be submitted at least every 6 months. All instances of deviations from permit requirements for the semi-annual reporting period, specified in the Landfill's Initial Title V Permit as August 1 through January 31 and February 1 through July 31, must be clearly identified in each report. This Title V Report covers the February 1, 2023 through July 31, 2023 reporting period.

This report has been prepared based on Part VII (Applicable Limits and Compliance Monitoring Requirements) of the Landfill's MFR Permit. The report includes a certification by a responsible official, consistent with §70.5(d).

The full Title V Semi-Annual Report, including certification by a responsible official, is provided as **Appendix F.**

Tables

Table 1a. GCCS Downtime Sonoma County Central Landfill, Petaluma, California (February 1, 2023 through July 31, 2023)

GCCS Shutdown GCCS Restarted Downtime Hours		Downtime Hours	Reason for Downtime*	Corrective Actions Taken	
		-	There was no GCCS downtime in February 2023.		
3/30/2023 10:22	3/30/2023 12:06	1.73	Manual Shutdown Wellfield Scheduled Construction	Flare was inspected and adjusted before being returned to service.	
			8-34-113, Inspection & Maintenance		
3/30/2023 16:28	3/30/2023 17:08	0.67	Manual Shutdown Wellfield Scheduled Construction	Flare was inspected and adjusted before being returned to service.	
			8-34-113, Inspection & Maintenance		
3/30/2023 19:18	3/30/2023 19:26	0.13	Manual Shutdown Wellfield Scheduled Construction	Flare was inspected and adjusted before being returned to service.	
			8-34-113, Inspection & Maintenance		
3/31/2023 11:08	3/31/2023 13:20	2.20	Manual Shutdown Wellfield Scheduled Construction	Flare was inspected and adjusted before being returned to service.	
			8-34-113, Inspection & Maintenance		
3/31/2023 14:24	3/31/2023 15:20	0.93	Manual Shutdown Wellfield Scheduled Construction	Flare was inspected and adjusted before being returned to service.	
			8-34-113, Inspection & Maintenance		
4/11/2023 12:48	4/11/2023 14:02	1.23	Manual Shutdown for plant operations (113)	Flare was inspected and adjusted before being returned to service.	
			There was no GCCS downtime in May 2023.		
6/29/2023 8:12	6/29/2023 8:20	0.14	Manual Shutdown for plant operations (113)	Flare was inspected and adjusted before being returned to service.	
6/29/2023 14:02	6/29/2023 14:28	0.43	Manual Shutdown for plant operations (113)	Flare was inspected and adjusted before being returned to service.	
6/30/2023 9:00	6/30/2023 9:10 0.17 Manual Shutdown for plant operations (113)		Manual Shutdown for plant operations (113)	Flare was inspected and adjusted before being returned to service.	
6/30/2023 11:36	6/30/2023 11:48	0.20	Manual Shutdown for plant operations (113)	Flare was inspected and adjusted before being returned to service.	
		_	There was no GCCS downtime in July 2023.		
	Total:	7.83			

Notes:

Downtimes listed represent periods when all landfill gas combustion devices were offline concurrently (no gas flow from the collection system).

All events listed involved GCCS inspection and/or maintenance activities prior to start up (or as soon as feasible following programmed startups) in accordance with Rule 8-34-113 requirements and the BAAQMD Compliance Advisory for Municipal Solid Waste Landfills, dated November 5, 2018.

^{*}Per the Startup, Shutdown, and Malfunction (SSM) forms, a flare flame failure shutdown is due to limited gas available while operating concurrently with the engine plant. In these instances, the flare cannot maintain the proper temperature to comply with the temperature limit, so a shutdown is activated to avoid non-compliance. Per BAAQMD 8-34-113 and the BAAQMD Compliance Advisory dated November 5, 2018, shutdown of air pollution control equipment prior to any non-compliance is allowable, given the parametric indicators of the system (temperature or flow indicators) are predictive of a pending equipment failure and shutdown.

Table 1b. Flare (A-4) Downtime Sonoma County Central Landfill, Petaluma, California (February 1, 2023 through July 31, 2023)

Shutdown	Startup	Downtime Hours	Reason for Downtime*
2/10/2022 14:20	2/40/2022 45 46		Mary al Chattle of the chatter with a
2/10/2023 14:30	2/10/2023 15:16	0.77	Manual Shutdown for plant operations
2/16/2023 15:00	2/16/2023 15:14	0.23	Manual Shutdown for plant operations
2/20/2023 8:28	2/20/2023 8:40	0.20	Manual Shutdown for plant operations
2/21/2023 6:10	2/21/2023 6:18	0.13	Manual Shutdown for plant operations
2/21/2023 7:20	2/21/2023 7:30	0.17	Manual Shutdown for plant operations
2/21/2023 13:22	2/21/2023 13:40	0.30	Manual Shutdown for plant operations
2/21/2023 13:44	2/21/2023 13:50	0.10	Manual Shutdown for plant operations
2/21/2023 13:52	2/21/2023 14:00	0.13	Manual Shutdown for plant operations
2/21/2023 14:04	2/21/2023 14:14	0.17	Manual Shutdown for plant operations
2/21/2023 14:16	2/21/2023 14:24	0.13	Manual Shutdown for plant operations
2/23/2023 8:42	2/23/2023 8:58	0.27	Manual Shutdown for plant operations
3/1/2023 10:30	3/1/2023 10:44	0.23	Manual Shutdown for plant operations
3/2/2023 6:44	3/2/2023 6:54	0.17	Manual Shutdown for plant operations
3/8/2023 6:32	3/8/2023 6:44	0.20	Manual Shutdown for plant operations
3/10/2023 12:06	3/10/2023 13:04	0.97	Manual Shutdown for plant operations
3/15/2023 12:14	3/15/2023 12:26	0.20	Manual Shutdown for plant operations
3/18/2023 12:50	3/18/2023 13:14	0.40	Manual Shutdown for plant operations
3/21/2023 8:54	3/21/2023 10:02	1.13	Manual Shutdown for plant operations
3/22/2023 13:46	3/22/2023 14:26	0.67	Manual Shutdown for plant operations
3/22/2023 15:44	3/22/2023 16:04	0.33	Manual Shutdown for plant operations
3/22/2023 17:06	3/22/2023 18:04	0.97	Manual Shutdown for plant operations
3/22/2023 18:08	3/22/2023 18:16	0.13	Manual Shutdown for plant operations
3/27/2023 8:02	3/27/2023 8:12	0.17	Manual Shutdown for plant operations
3/27/2023 10:26	3/27/2023 11:54	1.47	Manual Shutdown for plant operations
3/27/2023 12:44	3/27/2023 12:58	0.23	Manual Shutdown for plant operations
3/27/2023 14:06	3/27/2023 15:42	1.60	Manual Shutdown for plant operations
3/28/2023 8:40	3/28/2023 8:50	0.17	Manual Shutdown for plant operations
3/28/2023 16:20	3/28/2023 19:04	2.73	Manual Shutdown for plant operations
3/30/2023 10:22	3/30/2023 12:06	1.73	Manual Shutdown for plant operations
3/30/2023 16:28	3/30/2023 17:08	0.67	Manual Shutdown for plant operations
3/30/2023 19:18	3/30/2023 19:26	0.13	Manual Shutdown for plant operations
3/31/2023 11:08	3/31/2023 13:20	2.20	Manual Shutdown for plant operations
3/31/2023 14:24	3/31/2023 15:20	0.93	Manual Shutdown for plant operations
4/5/2023 12:42	4/5/2023 13:30	0.80	Manual Shutdown for plant operations
4/11/2023 12:48	4/11/2023 14:02	1.23	Manual Shutdown for plant operations
4/11/2023 14:24	4/11/2023 14:32	0.13	Manual Shutdown for plant operations
4/13/2023 13:26	4/13/2023 14:00	0.57	Manual Shutdown for plant operations
4/14/2023 11:36	4/14/2023 12:46	1.17	Manual Shutdown for plant operations
4/24/2023 9:18	4/24/2023 9:46	0.47	Manual Shutdown for plant operations
5/24/2023 11:14	5/24/2023 11:30	0.27	Manual Shutdown for plant operations
6/10/2023 4:16	6/10/2023 8:58	4.70	Manual Shutdown for plant operations
6/10/2023 9:52	6/10/2023 10:36	0.73	Manual Shutdown for plant operations

Table 1b. Flare (A-4) Downtime Sonoma County Central Landfill, Petaluma, California (February 1, 2023 through July 31, 2023)

Shutdown	Startup	Downtime Hours	Reason for Downtime*
6/13/2023 13:16	6/13/2023 13:26	0.17	Manual Shutdown for plant operations
6/28/2023 9:12	6/28/2023 9:40	0.47	Manual Shutdown for plant operations
6/28/2023 9:58	6/28/2023 11:00	1.03	Manual Shutdown for plant operations
6/28/2023 14:10	6/28/2023 14:32	0.37	Manual Shutdown for plant operations
6/29/2023 8:10	6/29/2023 8:20	0.17	Manual Shutdown for plant operations
6/29/2023 14:02	6/29/2023 14:30	0.47	Manual Shutdown for plant operations
6/30/2023 8:58	6/30/2023 9:10	0.20	Manual Shutdown for plant operations
6/30/2023 11:36	6/30/2023 11:48	0.20	Manual Shutdown for plant operations
7/24/2023 9:28	7/24/2023 9:40	0.20	Manual Shutdown for plant operations
Total		33.37	

Notes:

Events in bold type denotes Malfunction Events

and the BAAQMD Compliance Advisory for Municipal Solid Waste Landfills, dated November 5, 2018, with the exception of the events that occurred on February 19, March 3, 15, and 22, and *Per the Startup, Shutdown, and Malfunction (SSM) forms, a flare flame failure shutdown is due to limited gas available while operating concurrently with the engine plant. In these instances, the flare cannot maintain the proper temperature to comply with the temperature limit, so a shutdown is activated to avoid non-compliance. Per BAAQMD 8-34-113 and the BAAQMD Compliance Advisory dated November 5, 2018, shutdown of air pollution control equipment prior to any non-compliance is allowable, given the parametric indicators of the system (temperature

Table 2. Individual Well Startups, Shutdowns, and Decommissions Sonoma County Central Landfill, Petaluma, California (February 1, 2023 through July 31, 2023)

Well ID	Shutdown	Start-up*	Days Offline	Reason for Shutdown/Startup
SCV215-0 5/25/23 N/A N/A Vertical well abandoned due to pinched l		Vertical well abandoned due to pinched lateral		
SCV087-5B	7/13/23	N/A	N/A Vertical well abandoned due to new cell construction	
SCV116-A	7/13/23	N/A	N/A	Vertical well abandoned due to new cell construction

Note: All well downtime events listed are consistent with applicable Rule 8-34 provisions and BAAQMD permit conditions.

Well ID	Date and Time	Initial Static Pressure ("H ₂ O)	Adjusted Static Pressure ("H ₂ O)	Comments	Corrective Action
SCEC0008	5/23/2023 11:33	0.70	0.90	Initial reading,Closed well	N/A
SCEC0008	5/23/2023 11:34	0.85	0.86	No Change	
SCEC0008	5/25/2023 10:26	1.44	-0.19	Initial reading,Opened well	
SCEC0008	5/25/2023 10:26	1.44	-0.19		N/A
3010000	3/23/2023 10.20	1.44	-0.13		IN/A
SCEC0207	3/21/2023 13:04	0.17	-0.12	Initial reading,Opened well	N/A
				3	
SCEC0208	3/21/2023 13:44	0.50	-0.21	Initial reading,Opened well	N/A
SCHC2201	6/29/2023 11:19	0.23	0.33		N/A
SCHC2201	6/29/2023 11:19	0.23	0.33 -0.05		
SCHC2201	6/29/2023 11:24	-0.05	-0.05		
SCHC2202	7/14/2023 11:01	0.06	0.13		N/A
SCHC2202	7/17/2023 8:55	-0.08	-0.07		1,7,7
	, ,				
SCEW2103	2/20/2023 10:01	-0.34	0.15	No Change	RCA
SCEW2103	3/7/2023 11:32	-4.73	-4.25	Initial reading,Closed well	
SCEW2104	3/7/2023 13:00	0.00	0.02	Initial reading,Opened well	N/A
SCEW2104	3/7/2023 13:01	-0.03	0.01	No Change	
SCEW2104	3/20/2023 9:06	-0.23	-0.08	Initial reading,Closed well	
SCEW2104	4/13/2023 12:34	-0.47	0.03	Initial reading,Opened well	N/A
SCEW2104	4/13/2023 12:35	-0.47	-0.15	No Change	IN/A
3CLVV2104	4/13/2023 12.33	-0.17	-0.13	NO Change	
SCEW2104	4/28/2023 14:08	0.21	0.22	Closed well, Valve at minimum position, Well offline (valve	N/A
	, .,			100% closed)	,
SCEW2104	5/9/2023 11:52	-0.44	-0.35	Initial reading,Opened well	
SCV51-5A	6/19/2023 16:04	0.20	-0.05	Initial reading,Opened well	N/A
501054.5	1/20/2022 15 15	0.10	0.17	W 112	21/2
SCV064-5	4/28/2023 16:15 5/5/2023 13:13	8.12	8.17	Well Decommissioned (permanent),	N/A
SCV064-5	5/5/2023 13:13	-49.92	-49.91	No Change	
SCV066-5	2/3/2023 12:57	3.09	-0.44	Initial reading,Opened well	N/A
30,000	2,0,2020 22.07	3.03	0	initial reading/opened wen	,
SCV066-5	4/3/2023 10:50	2.28	-1.98	Initial reading,Opened well	N/A
SCV077-1	2/24/2023 11:11	37.16	36.47	Initial reading, No Change Pump Needs Maintenance	N/A
SCV077-1	2/24/2023 11:17	28.43	28.40	Follow up reading, No ChangePump Needs Maintenance	
SCV077-1	3/6/2023 12:50		-6.17	Initial reading,Opened well	
SCV077-1	4/20/2023 11:41	0.42	-0.56	Initial reading,Opened well	N/A
3040//-1	7/ 20/ 2023 11.41	0.42	-0.50	initial reading, Opened well	IN/A
SCV079-1	2/2/2023 14:25	0.86	-1.79	Initial reading, Opened well	N/A
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			<u>0</u> , - p - 2	
SCV079-1	2/24/2023 11:02	10.93	-0.43	Initial reading,Opened well	N/A
SCV082-1	6/12/2023 11:56	1.66	-0.17	Initial reading,Opened well	N/A
601:000 -	4/4/2222 :	2.22			
SCV089-B	4/4/2023 13:08	3.93	-0.13		N/A
SCV090-A*	7/24/2023 10:29	1 02	1.83		NI/A
3CVU3U-A	1/24/2023 10.29	1.82	1.05		N/A
SCV093-A	3/27/2023 10:06	7.80	-0.87	Initial reading,Opened well	N/A
22.000 //	-, -: , 2020 10.00	7.55	5.5.		,
SCV095-A	3/27/2023 10:39	1.00	-0.09	Initial reading,Opened well	N/A
	= 10 10000 ++ +0	4.60	0.40	Initial reading, Opened well	N/A
SCV095-A	5/8/2023 11:13	1.62	-0.49	ilitiai reauliig,Openeu weli	IN/A
SCV095-A SCV099-A*	5/8/2023 11:13 7/25/2023 7:39	0.39	0.41	No ChangeLateral Vacuum loss	N/A

Well ID	Date and Time	Initial Static Pressure ("H ₂ O)	Adjusted Static Pressure ("H ₂ O)	Comments	Corrective Action
SCV100-5	3/22/2023 8:35	0.72	-0.16	Initial reading,Opened well	N/A
SCV103-A	3/22/2023 10:28	0.26	-0.23	Initial reading,Opened well	N/A
SC0V106A	3/9/2023 10:40	0.08	-0.09	Initial reading,Opened well	N/A
SC0V108A*	7/24/2023 10:35	1.32	1.39	No ChangeLateral Vacuum loss	N/A
SCV109-A	4/4/2023 12:51	0.23	-0.05	Initial reading,Opened well	N/A
SCV112-0	2/21/2023 12:29	0.25	-0.03	Initial reading,Opened well	N/A
SCV112-0	3/9/2023 9:58	0.08	-0.17	Initial reading,Opened well	N/A
SCV112-0	3/22/2023 12:43	0.02	-0.07	Initial reading,Closed well	N/A
SCV112-0	4/3/2023 11:49	0.80	-0.08	Initial reading,Opened well	N/A
					·
SCV112-0	5/8/2023 15:36	2.53	-0.04	Initial reading,Opened well	N/A
SCV116-A SCV116-A	2/21/2023 10:42 2/28/2023 12:51	-0.28 -0.04	0.34 -0.13	No Change Initial reading,Opened well	N/A
3CV110-A	2/28/2023 12.31	-0.04	-0.15	illitial reaulig,Openeu weii	
SCV116-A	3/27/2023 11:01	0.61	-0.09	Initial reading,Opened well	N/A
SCV120-0	2/20/2023 11:11	4.86	-18.93	Initial reading,Opened well	N/A
SCV126A0*	7/24/2023 10:46	0.23	0.24	No Change	N/A
SCV132-0	6/12/2023 16:25	0.06	-0.07	Initial reading,Opened well	N/A
SCV135-0	6/15/2023 11:58	0.02	0.03	Follow up reading, No ChangeValve at minimum position	N/A
SCV135-0	6/22/2023 15:08	-0.21	-0.22		
SCV138-0	3/30/2023 15:25	3.52	-0.61	Initial reading,Opened well	N/A
SCV138-0	4/28/2023 15:54	0.11	-1.90		N/A
SCV138-0	7/11/2023 6:31	0.07	0.09	Follow up reading, No Change	N/A
SCV138-0	7/13/2023 8:10	-0.30	-0.25	Initial reading,Closed well	
SCV138-0*	7/21/2023 8:39	0.17	0.21	Follow up reading,No ChangeValve at minimum position	N/A
SCV139-0	4/4/2023 11:13	0.93	-0.28	Initial reading,Opened well	N/A
SCV139-0	4/28/2023 15:59	0.28	0.28	Initial reading, Closed well, Well offline (valve 100%	N/A
SCV139-0	5/4/2023 11:33	-2.91	-2.74	closed),Well offline (ongoing),,,, Initial reading,Closed well	
SCV140-0	2/23/2023 9:51	16.09	-9.80	Initial reading,Opened well	N/A
SCV140-0	4/4/2023 11:04	3.45	-0.60	Initial reading,Opened well	N/A
SCV140-0	4/28/2023 16:04	-0.59	0.11		RCA
SCV140-0	4/28/2023 16:23	36.29	36.31	Follow up reading,	, nea
SCV140-0	5/2/2023 11:09	40.02	40.53	Initial reading,Closed well	
SCV140-0	5/2/2023 11:11	40.86	40.88	No Change	4
SCV140-0	5/15/2023 9:26	-36.62	-27.40	Initial reading,Closed well	
SCV141-0	6/19/2023 14:24	0.12	-0.40	Initial reading,Opened well	N/A
SCV142-0	2/24/2023 15:02	0.11	-0.43	Initial reading,Opened well	N/A

Well ID	Date and Time	Initial Static Pressure ("H ₂ O)	Adjusted Static Pressure ("H ₂ O)	Comments	Corrective Action
SCV142-0	3/31/2023 9:46	0.12	-0.35	Initial reading,Opened well	N/A
SCV142-0	6/14/2023 15:11	0.95	0.97	Follow up reading, Closed well	N/A
SCV142-0	6/19/2023 14:14	1.32	-1.05	Initial reading,Opened well	1,,,,
SCV142-0	7/20/2023 11:04	0.22	-1.12	Initial reading,Opened well	N/A
3CV142-0	7/20/2023 11:04	0.22	-1.12	initial reading,Opened well	N/A
SCV142-0*	7/20/2023 11:06	0.42	0.43	Follow up reading,No Change	N/A
SCV146-0	7/20/2023 9:10	0.01	-23.56	Initial reading,Opened well	N/A
				3	,
SCV147-0	3/29/2023 14:03	5.77	-0.28	Initial reading,Opened well	N/A
SCV149-A*	7/25/2023 7:34	2.13	2.17	No ChangeLateral Vacuum loss	N/A
SCV219-0	7/17/2023 12:26	0.37	-0.59	Initial reading,Opened well	N/A
				J. 1	·
SCV221-0	7/10/2023 8:40	1.89	1.91		N/A
SCV221-0	7/17/2023 12:15	-30.03	-30.03	No Change	
SCV222-0	3/28/2023 12:52	0.21	-0.13	Initial reading,Closed well	N/A
CCV222 0	7/10/2022 0:47	0.16	0.16	No Change Value at minimum position	N/A
SCV222-0	7/10/2023 8:47 7/13/2023 7:44	0.16 -0.50	0.16 -0.75	No ChangeValve at minimum position	N/A
SCV222-0	//13/2023 7:44	-0.50	-0.75	No ChangeValve at minimum position	
SCV223-0	2/20/2023 13:43	0.07	-0.66	Initial reading,Opened well	N/A
SCV223-0*	7/10/2023 7:55	1.87	1.88		RCA
SCV223-0*	7/17/2023 12:00	1.79	1.81	No Change	
SCV223-0*	7/17/2023 12:03	1.81	1.81	No Change	
SCV223-0*	7/25/2023 12:20	1.59	1.65	No Change	
SCV223-0*	7/28/2023 10:54	1.36	1.39	Initial reading,No ChangeValve at minimum position	
SCV223-0*	7/28/2023 11:13	1.18	1.23	Follow up reading,No ChangeOrifice Plate Changed	
SCV226-0	7/10/2023 7:43	0.07	-2.06	Initial reading,Opened well	N/A
SCV228-0	7/10/2023 7:36	0.02	-2.84	Initial reading,Opened well	N/A
SCV229-0	6/20/2023 8:56	0.22	0.21	Initial reading,No Change	N/A
SCV229-0	6/26/2023 16:43	-1.93	-1.98	Initial reading,Opened well	
SCV230-0	7/10/2023 8:10	0.04	-9.78	Initial reading,Opened well	N/A
364230 0	7/10/2023 0.10	0.04	5.70	initial reading, opened wen	N/A
SCV230-0	7/10/2023 8:10	0.04	-9.78		N/A
SCV233-0	6/20/2023 9:58	-0.47	0.14	Follow up reading, No ChangeValve at minimum position	N/A
SCV233-0	6/26/2023 16:39	-0.46	-0.54	Initial reading,Opened well	-
SCV235-0	2/27/2023 14:21	0.25	-0.89	Initial reading,Opened well	N/A
30.7233-0	2/27/2023 14.21	0.23	-0.83	initial reading, Opened wen	IN/A
SCV89-5A*	7/26/2023 7:21	0.20	0.22	No Change	N/A
SCEW2003	7/12/2023 13:25	0.03	-0.05	Initial reading,Opened well	N/A
SCEW2008	2/27/2023 10:10	0.15	-0.02	Initial reading,Opened well	N/A
SCEW2016	2/6/2023 11:20	0.35	0.34	Initial reading,Opened well	RCA, CAA, 75-day
SCEW2016	2/6/2023 11:21	0.10	0.14	No Change	, c. a., 75 day
SCEW2016	2/20/2023 10:17	0.46	0.46	Initial reading,Opened well	1
SCEW2016	2/20/2023 10:18	0.14	0.17	No Change]
SCEW2016	3/7/2023 13:07	0.54	0.53	Initial reading,Opened well	1
SCEW2016	3/7/2023 13:08	0.56	0.54	No Change	1
SCEW2016	3/20/2023 9:01	0.24	0.23	Initial reading,Opened well	

Well ID	Date and Time	Initial Static Pressure ("H ₂ O)	Adjusted Static Pressure ("H ₂ O)	Comments	Corrective Action
SCEW2016	3/20/2023 9:02	0.30	0.31	No Change	
SCEW2016	4/13/2023 12:29	0.11	0.60	Initial reading,Opened well	
SCEW2016	4/13/2023 12:30	0.57	0.58	No Change	
SCEW2016	4/26/2023 10:20	0.08	0.54	Initial reading, Valve 100% open	
SCEW2016	4/26/2023 10:21	0.06	0.11	No Change	
SCEW2016	5/9/2023 12:06	-0.16	-0.22	Initial reading,Opened well	
SCEW2017	2/6/2023 13:49	0.01	-0.13	Initial reading,Opened well	N/A
SCEW2202	3/3/2023 12:01	0.06	-0.05		N/A
SCEW2203	2/1/2023 13:08	0.05	-0.03		N/A
SCEW2204	2/1/2023 13:03	0.07	-0.03		N/A
SCEW2205	3/3/2023 11:44	0.14	-0.10		N/A
SCEW2206	3/9/2023 10:54	0.12	-0.16		N/A
SCEW2207	3/27/2023 9:04	1.79	-0.37		N/A
SCEW2208	3/27/2023 10:18	3.73	-0.79		N/A

Note: All required corrective action and remonitoring was completed in accordance with Rule 8-34 and NSPS timelines.

All pressure exceedance were corrected within 15 days except for the wells noted in **bold italics**. Root cause analysis forms were completed for these wells. Wells noted with an asterisk (*) remained in exceedance at the end of the reporting period.

Well ID	Date and Time	Oxygen (%)	Comments
SCEC0010	3/6/2023 12:53	7.6	Initial reading, Valve at minimum position
SCEC0010	3/6/2023 12:54	17.0	No Change
SCEC0010	3/17/2023 9:27	13.9	Initial reading, Valve at minimum position
SCEC0010	3/17/2023 9:28	12.5	No Change
SCEC0010	4/6/2023 12:26	18.7	Initial reading, Valve at minimum position
SCEC0010	4/6/2023 12:27	19.9	No Change
SCEC0010	4/20/2023 14:13	2.6	Initial reading,Opened well
SCEC0031	3/6/2023 12:37	8.0	Initial reading,Closed well
SCEC0031	3/6/2023 12:38	7.2	No Change
SCEC0031	3/17/2023 9:19	12.5	Valve at minimum position,
SCEC0031	3/17/2023 9:21	11.0	No Change
SCEC0031	4/6/2023 12:12	0.9	Initial reading,Opened well
SCEC0032	3/21/2023 13:59	5.2	Initial reading,Closed well
SCEC0032	3/21/2023 14:01	7.2	No Change
SCEC0032	4/6/2023 12:08	3.1	Initial reading, Opened well
SCEC0034	3/21/2023 13:12	5.8	Initial reading,Closed well
SCEC0034	3/21/2023 13:14	5.7	No Change
SCEC0034	4/6/2023 11:43	0.5	Initial reading, Opened well
	, , , , , , , , , , , , , , , , , , , ,		3, 1
SCEC0034	5/5/2023 11:54	5.4	No Change
SCEC0034	5/10/2023 14:00	0.0	Valve 100% open,
			' '
SCEC0034	7/17/2023 7:49	11.4	No ChangeValve at minimum position
SCEC0034	7/28/2023 9:08	4.6	No Change
	, , , , , , , , , , , , , , , , , , , ,	-	Č
SCEC0035	3/21/2023 12:56	13.1	Initial reading,Closed well
SCEC0035	3/21/2023 12:58	10.5	Closed well,
SCEC0035	4/6/2023 11:19	0.8	Initial reading, Opened well
	, , , , , , , , , , , , , , , , , , , ,		3, 1
SCEC0038	3/21/2023 12:33	5.7	No Change
SCEC0038	4/6/2023 11:07	0.0	Initial reading, Opened well
	· ·		
SCEC0040	3/21/2023 12:23	9.1	Initial reading,Closed well
SCEC0040	3/21/2023 12:25	8.0	No Change
SCEC0040	4/6/2023 10:59	0.0	Initial reading, Opened well
	, , , , , , , , , , , , , , , , , , , ,		3, 1
SCEC0207	3/6/2023 11:26	6.9	Initial reading, Valve at minimum position
SCEC0207	3/6/2023 11:27	19.0	5.
SCEC0207	3/17/2023 9:09	20.1	Initial reading, Valve at minimum position
SCEC0207	3/17/2023 9:10	20.7	No Change
SCEC0207	3/21/2023 13:04	0.0	Initial reading, Opened well
	-, ,=========		U, - p
SC000H04	6/14/2023 14:28	20.4	Initial reading,No Change
SC000H04	6/14/2023 14:31	20.4	Follow up reading, Closed well, Valve at minimum position, Ongoing exceedance,,,,
SC000H04	6/27/2023 8:25	0.2	Initial reading,Opened well
	-, ,		
SC000H52	2/2/2023 14:03	11.4	Initial reading,Closed well
SC000H52	2/2/2023 14:05	12.2	No Change
SC000H52	2/20/2023 10:29	0.0	Initial reading,Closed well
550001152	_, _0, _0, _0	5.5	durredung/closed Well
SC000H52	4/17/2023 13:18	8.1	Initial reading, Valve at minimum position
SC000H52	4/17/2023 13:19	7.4	No Change
SC000H52	5/1/2023 13:19	3.8	Initial reading, Valve at minimum position
JCOUOTIJZ	3/ 1/ 2023 13.00	3.0	mittai reading, vaive at millimum position

Well ID	Date and Time	Oxygen (%)	Comments
SC000H52	6/15/2023 12:52	5.6	Follow up reading, Valve at minimum position
SC000H52	6/19/2023 15:02	0.0	Initial reading,No ChangeValve at minimum position
SCHC2201	3/16/2023 9:03	9.6	HOV Requested
SCHC2201	4/11/2023 12:41	0.4	HOV Requested
SCHC2201	4/24/2023 7:44	10.7	HOV Requested
SCHC2201	4/24/2023 7:45	4.2	HOV Requested
SCHC2201	5/16/2023 8:22	5.9	HOV Requested
SCHC2201	5/16/2023 8:23	6.1	HOV Requested
SCHC2201	5/25/2023 8:32	4.4	HOV Requested
SCHC2202	2/1/2023 12:35	11.3	HOV Requested
SCHC2202	2/1/2023 12:36	13.7	HOV Requested
SCHC2202	2/20/2023 9:04	5.1	HOV Requested
SCHC2202	2/20/2023 9:05	6.4	HOV Requested
SCHC2202	3/1/2023 9:08	10.2	HOV Requested
SCHC2202	3/1/2023 9:09	14.4	HOV Requested
SCHC2202	3/16/2023 9:09	13.3	HOV Requested
SCHC2202	3/16/2023 9:11	14.3	HOV Requested
SCHC2202	4/13/2023 11:12	6.1	HOV Requested
SCHC2202	4/13/2023 11:13	4.5	HOV Requested
SCHC2202	4/24/2023 7:51	10.1	HOV Requested
SCHC2202	4/24/2023 7:52	13.3	HOV Requested
SCHC2202	5/1/2023 10:34	16.2	HOV Requested
SCHC2202	5/1/2023 10:35	16.3	HOV Requested
SCHC2202	5/15/2023 9:06	2.5	HOV Requested
SCHC2202	5/16/2023 8:27	7.7	HOV Requested
SCHC2202	5/16/2023 8:28	8.3	HOV Requested
SCHC2202	5/16/2023 8:28	8.3	HOV Requested
SCHC2202	5/25/2023 8:37	12.9	HOV Requested
SCHC2202	5/25/2023 8:38	13.3	HOV Requested
SCHC2202	6/27/2023 13:17	14.4	HOV Requested
SCHC2202	6/29/2023 11:29	14.1	HOV Requested
SCHC2202	7/14/2023 11:01	3.9	HOV Requested
SCHC2202*	7/17/2023 8:55	11.9	HOV Requested
SCHC2202*	7/17/2023 8:57	11.5	HOV Requested
2 2	., =., 2020 0.0,	1 22.5	
SCLEW-06	6/14/2023 14:39	20.4	Initial reading,Closed well
SCLEW-06	6/14/2023 14:42	17.3	Follow up reading, Closed well, Valve at minimum position
SCLEW-06	6/19/2023 14:04	0.2	Initial reading,Opened well
001511155	2/2/2222 : 2 : -	1	Indiana and the Medical and activities (19)
SCLEW-07	2/3/2023 12:17	6.3	Initial reading, Valve at minimum position
SCLEW-07	2/3/2023 12:20	2.0	No Change
SCEW2103	2/6/2023 10:43	12.6	Initial reading, Valve at minimum position
SCEW2103	2/6/2023 10:44	13.3	No Change
SCEW2103	2/20/2023 10:00	8.4	Initial reading,Closed well
SCEW2103	2/20/2023 10:01	12.0	No Change
SCEW2103	3/7/2023 11:32	4.4	Initial reading,Closed well
SCEW2103	3/20/2023 13:45	6.5	Initial reading,Closed well

Well ID	Date and Time	Oxygen (%)	Comments
SCEW2103	3/20/2023 13:47	4.9	No Change
SCEW2103	4/14/2023 14:22	7.6	Initial reading,Opened well
SCEW2103	4/14/2023 14:23	8.3	No Change
SCEW2103	4/28/2023 13:06	2.9	
SCEW2103	5/19/2023 12:41	6.5	Initial reading, No Change Valve at minimum position
SCEW2103	5/19/2023 12:43	7.0	Follow up reading, No Change Valve at minimum position
SCEW2103	5/19/2023 12:45	3.3	Follow up reading,No Change
CCE14/24/02*	C /4.4 /2022 45 54	6.3	
SCEW2103* SCEW2103*	6/14/2023 15:51	6.2 7.0	Initial reading, Closed well
	6/19/2023 14:41	7.0 11.1	
SCEW2103* SCEW2103*	6/19/2023 14:45 7/3/2023 14:13	8.1	Follow up reading,No Change Initial reading,No ChangeValve at minimum position
SCEW2103*	7/25/2023 10:37	7.1	Initial reading, No Change Valve at minimum position
SCEW2103*	7/25/2023 10:37	7.4	Follow up reading, No Change
302472103	7/23/2023 10.40	7.4	Tollow up reduling, no change
SCEW2104	2/6/2023 11:04	18.4	Initial reading,Opened well
SCEW2104	2/6/2023 11:05	20.6	No Change
SCEW2104	2/21/2023 8:51	0.3	Initial reading,
	, ,		Ç,
SCEW2104	3/7/2023 13:00	20.3	Initial reading,Opened well
SCEW2104	3/7/2023 13:01	20.7	No Change
SCEW2104	3/20/2023 9:06	18.1	Initial reading,Closed well
SCEW2104	3/20/2023 9:07	20.1	No Change
SCEW2104	4/13/2023 12:34	0.0	Initial reading,Opened well
SCEW2108	4/14/2023 9:51	6.0	Closed well,
SCEW2108	4/14/2023 9:53	2.2	No Change
SCEW2111	7/14/2023 11:50	5.7	No ChangeValve at minimum position
SCEW2111	7/18/2023 12:46	5.3	No ChangeValve at minimum position
SCEW2111	7/28/2023 8:39	4.9	No ChangeValve at minimum position
SCEW2119	3/21/2023 10:31	20.5	Initial reading, Valve at minimum position
SCEW2119 SCEW2119	3/21/2023 10:33	20.9	No Change
SCEW2119 SCEW2119	4/7/2023 10:59	20.2	Initial reading, Valve at minimum position
SCEW2119	4/7/2023 11:01	20.4	No Change
SCEW2119	4/20/2023 13:51	20.3	Initial reading, Valve at minimum position
SCEW2119	4/20/2023 13:52	20.6	No Change
SCEW2119	5/2/2023 10:38	10.1	Initial reading, Valve at minimum position
SCEW2119	5/2/2023 10:40	3.4	No Change
	•		
SCEW2119	6/6/2023 14:39	5.5	Initial reading,No ChangeOngoing exceedance
SCEW2119	6/6/2023 14:45	0.1	Follow up reading,Opened well
SCV003-0	3/3/2023 12:15	13.1	Initial reading, Closed well, Valve at minimum position
SCV003-0	3/3/2023 12:16	20.3	No Change
SCV003-0	3/3/2023 12:21	4.1	Initial reading,Closed well
SCV04-2A	3/3/2023 12:53	14.2	Initial reading,Closed well,Valve at minimum position
SCV04-2A	3/3/2023 12:54	21.2	No Change
SCV04-2A	3/16/2023 10:10	14.5	Initial reading,Closed well
SCV04-2A	3/16/2023 10:12	12.6	No Change
SCV04-2A	3/30/2023 13:08	0.1	Initial reading,Opened well
567.045	6/44/2022 17 12	24.2	Indian to the Alexander
SCV045-A	6/14/2023 15:40	21.3	Initial reading,No Change

Well ID	Date and Time	Oxygen (%)	Comments
SCV045-A	6/14/2023 16:13	0.5	Initial reading, No Change
SCV049-A	3/22/2023 10:39	8.5	Initial reading,Closed well
SCV049-A	3/22/2023 10:41	4.8	No Change
SCV050-A	2/1/2023 9:45	6.1	Initial reading, Closed well
SCV050-A	2/1/2023 9:47	5.0	No Change
	- / - /		
SCV050-A	3/10/2023 11:05	6.4	Initial reading,Closed well
SCV050-A	3/10/2023 11:08	6.1	No Change
SCV050-A	3/31/2023 8:31	6.3 6.3	Initial reading,Closed well
SCV050-A	3/31/2023 8:32	l	No Change
SCV050-A	4/12/2023 14:48	2.9	No Change
SCV050-A	4/25/2023 11:49	6.7	Initial reading,Closed well
SCV050-A	4/25/2023 11:50	5.7	No Change
SCV050-A	5/9/2023 13:12	0.0	Initial reading, Opened well
3CV030 A	3/3/2023 13.12	0.0	mital reduing opened well
SCV050-A	6/15/2023 13:42	6.0	Follow up reading, Closed well, Valve at minimum position
SCV050-A	6/19/2023 15:51	4.5	Initial reading, Closed well
	5/ -5/ -5-5 -5-5		
SCV050-A	7/14/2023 6:54	11.1	No ChangeValve at minimum position
SCV050-A	7/18/2023 12:56	4.1	No ChangeValve at minimum position
	· ·		· · · · · · · · · · · · · · · · · · ·
SCV051-A	4/25/2023 11:55	5.2	Initial reading,Closed well
SCV051-A	4/25/2023 11:57	5.2	No Change
SCV051-A	5/9/2023 13:22	0.0	Initial reading,Opened well
SCV051-A	6/15/2023 13:31	5.6	Initial reading, Valve at minimum position
SCV051-A	6/15/2023 13:33	5.9	Follow up reading, No Change
SCV051-A	6/19/2023 15:57	3.8	Initial reading,Closed well
SCV051-A*	7/14/2023 6:59	10.1	No ChangeValve at minimum position
SCV051-A*	7/18/2023 13:00	6.9	No ChangeValve at minimum position
SCV051-A*	7/20/2023 10:44	7.3	No ChangeValve at minimum position
SCV057-0	3/31/2023 10:00	5.2	Initial reading, Valve at minimum position
SCV057-0	3/31/2023 10:02	2.1	No Change
661/057.0	C /4 4 /2022 4 F 20	24.4	laikiel and die a Ne Channellelan at minimum and king
SCV057-0	6/14/2023 15:28	21.1	Initial reading,No ChangeValve at minimum position Initial reading,Opened well
SCV057-0	6/19/2023 14:28	0.1	initial reading,Opened well
SCV064-0	2/24/2022 15:41	10.3	Initial reading,No ChangeValve at minimum position
SCV064-0 SCV064-0	2/24/2023 15:41 2/24/2023 15:44	10.3	Follow up reading, No Change Valve at minimum position
SCV064-0	3/6/2023 9:26	0.7	Initial reading, No Change
30004-0	3/0/2023 9.20	0.7	mittai reading, No Change
SCV064-0	3/17/2023 10:40	8.7	Initial reading, Valve at minimum position
SCV064-0	3/17/2023 10:43	5.9	No Change
SCV064-0	4/3/2023 10:15	1.8	Initial reading, Opened well
33.33.0	., 0, 2020 10.13		
			Initial reading, Valve at minimum position
SCV064-5	3/17/2023 10:54	15.4	
SCV064-5 SCV064-5	3/17/2023 10:54 3/17/2023 10:56	15.4 18.0	
SCV064-5	3/17/2023 10:56	18.0	No Change
SCV064-5 SCV064-5	3/17/2023 10:56 4/3/2023 10:09	18.0 2.5	No Change Initial reading, Opened well
SCV064-5	3/17/2023 10:56	18.0	No Change

Well ID	Date and Time	Oxygen (%)	Comments
SCV066-5	3/17/2023 10:11	9.2	No Change
SCV066-5	4/3/2023 10:50	0.0	Initial reading,Opened well
SCV066-5	7/20/2023 7:18	6.0	No ChangeValve at minimum position
SCV066-5	7/20/2023 7:24	2.1	No ChangeValve at minimum position
SCV066-A	3/6/2023 8:46	6.5	Initial reading,Opened well
SCV066-A	3/6/2023 8:49	3.1	Follow up reading,No Change
SCV066-A	3/17/2023 10:15	6.2	Initial reading, Valve at minimum position
SCV066-A	3/17/2023 10:18	5.6	No Change
SCV066-A	4/3/2023 11:02	4.2	Initial reading,Opened well
SCV067-5	3/17/2023 9:50	10.3	Initial reading,Closed well
SCV067-5	3/17/2023 9:53	6.0	No Change
SCV067-5	4/3/2023 10:41	0.3	Initial reading,Opened well
SCV067-A	3/17/2023 9:59	17.1	Initial reading, Valve at minimum position
SCV067-A	3/17/2023 10:00	20.1	No Change
SCV067-A	4/3/2023 10:46	3.3	No Change
SCV067-A	7/10/2023 11:24	5.5	Initial reading, Closed well, Valve at minimum position
SCV067-A	7/10/2023 11:26	19.6	Follow up reading, No ChangeValve at minimum position
SCV067-A	7/20/2023 7:14	3.4	No ChangeValve at minimum position
SCV074-A	2/3/2023 9:09	6.1	Initial reading, Valve at minimum position
SCV074-A	2/3/2023 9:10	6.2	No Change
SCV074-A	2/20/2023 10:42	3.6	Initial reading,Closed well
SCV075-A	2/23/2023 11:13	7.2	Initial reading, No Change
SCV075-A	2/23/2023 11:16	6.3	No Change
SCV075-A	3/6/2023 11:04	0.0	Initial reading, Closed well
	- /2 /2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
SCV075-A	5/2/2023 12:41	6.5	Initial reading,Closed well
SCV075-A	5/2/2023 12:43	4.2	No Change
CC) (07F A	C /4 F /2022 42-20	20.0	latelal annulum
SCV075-A	6/15/2023 12:28	20.8	Initial reading,
SCV075-A	6/15/2023 12:29	20.8	Follow up reading,No Change Initial reading,No Change
SCV075-A	6/22/2023 14:54	0.7	illitial readilig, No Change
SC\/077_1	2/24/2022 11:11	19.2	Initial reading, No ChangePump Needs Maintenance
SCV077-1 SCV077-1	2/24/2023 11:11 2/24/2023 11:17	19.2	Follow up reading,No ChangePump Needs Maintenance
SCV077-1 SCV077-1		0.5	
3000//-1	3/6/2023 12:50	0.3	Initial reading,Opened well
SCV078-1	7/21/2023 10:09	6.6	Initial reading, No ChangeValve at minimum position
SCV078-1 SCV078-1	7/21/2023 10:09	5.2	Follow up reading, No ChangeValve at minimum position
30070-1	//21/2023 10.10	J.Z	Tonow up reading, to change valve at minimum position
SCV079-1	6/23/2023 14:05	20.6	Initial reading, Closed well, Lateral Vacuum loss
SCV079-1	6/23/2023 14:12	20.8	Follow up reading, No Change
SCV079-1	6/23/2023 14:12	20.5	Initial reading, Opened well, Valve at minimum position
SCV079-1	6/23/2023 14:43	20.5	Follow up reading, No Change
SCV079-1	7/3/2023 13:38	1.4	Tollow up reduling, No Challge
33,40,31	7,5,2023 13.30	1.7	
SCV080-0	2/2/2023 14:10	6.1	Initial reading, Closed well
SCV080-0	2/2/2023 14:10	4.9	No Change
35,4000 0	2,2,2023 17.11	7.5	TO CHAILD
SCV080-0	6/15/2023 13:06	20.0	Initial reading, Closed well
354000 0	0, 10, 2023 13.00	20.0	ai redaiig/eiosea weii

Well ID	Date and Time	Oxygen (%)	Comments
SCV080-0	6/15/2023 13:09	19.9	Follow up reading, No Change Valve at minimum position
SCV080-0	6/23/2023 13:37	20.8	Initial reading, Closed well, Valve at minimum position
SCV080-0	6/23/2023 13:42	20.7	Follow up reading, No Change
SCV080-0	7/11/2023 7:54	0.6	
SCV081-1	2/3/2023 8:52	14.0	Initial reading,Closed well
SCV081-1	2/3/2023 8:54	13.4	No Change
SCV081-1	2/20/2023 10:36	7.8	Closed well,
SCV081-1	2/20/2023 10:37	11.3	No Change
SCV081-1	3/6/2023 12:02	12.8	Initial reading, No Change Valve at minimum position
SCV081-1	3/9/2023 12:44	10.4	Initial reading, Closed well
SCV081-1	3/9/2023 12:46	11.2	No Change
SCV081-1	3/27/2023 12:40	11.7	Initial reading, Closed well
SCV081-1	3/27/2023 8:48	10.6	No Change
SCV081-1	3/29/2023 12:39	10.3	Initial reading, Closed well
SCV081-1	3/29/2023 12:39	10.3	No Change
SCV081-1 SCV081-1	4/14/2023 8:28	14.6	Initial reading, Closed well
SCV081-1 SCV081-1	4/14/2023 8:29	14.7	No Change
SCV081-1	4/17/2023 13:10	12.9	Initial reading, Valve at minimum position
SCV081-1	4/17/2023 13:10	12.4	No Change
SCV081-1	4/20/2023 13:11	0.0	Initial reading,Opened well
3CV081-1	4/20/2023 13.27	0.0	initial reading, opened well
SCV081-1	4/20/2023 13:29	15.0	Closed well,
SCV081-1	4/20/2023 13:23	10.1	No Change
SCV081-1	5/1/2023 13:14	0.0	Initial reading,Opened well
3CV001-1	3/1/2023 13.14	0.0	mittai reaunig,Openeu wen
SCV081-1	6/12/2023 11:24	18.2	Initial reading, Closed well
SCV081-1	6/12/2023 11:25	20.8	Follow up reading, No ChangeValve at minimum position
SCV081-1	6/19/2023 15:07	0.4	Initial reading,No Change
561004.4	7/24/2022 0.54	11.0	total and a Charle all Web and a distance with
SCV081-1	7/21/2023 9:54	11.0	Initial reading,Closed well,Valve at minimum position
SCV081-1	7/21/2023 9:58	4.9	Follow up reading,No Change
SCV082-1	2/2/2023 13:46	7.8	Initial reading, Closed well
SCV082-1	2/2/2023 13:47	4.8	No Change
SCV089-B	3/13/2023 9:46	9.5	Initial reading,Closed well
	, ,	†	~
SCV089-B SCV089-B	3/13/2023 9:48 3/16/2023 10:58	6.2 12.7	No Change Initial reading,Closed well
SCV089-B SCV089-B	3/16/2023 10:58	4.5	No Change
SCV091-B	3/13/2023 9:29	6.0	Initial reading,Closed well
SCV091-B	3/13/2023 9:31	4.5	No Change
0011000	7/44/2000		
SCV092-A*	7/11/2023 11:01	8.6	Initial reading,Closed well
SCV092-A*	7/11/2023 11:06	10.9	Follow up reading,No Change
SCV092-A*	7/13/2023 8:30	8.5	Initial reading,No Change
SCV092-A*	7/13/2023 8:36	7.5	Follow up reading,No Change
SCV092-A*	7/24/2023 7:44	7.4	No ChangeValve at minimum position
SCV093-A	3/13/2023 8:47	8.7	Initial reading, Closed well
SCV093-A	3/13/2023 8:49	6.4	No Change
SCV093-A	3/27/2023 10:06	0.0	Initial reading,Opened well
SCV094-A	3/13/2023 8:28	10.3	Initial reading,Closed well
SCV094-A	3/13/2023 8:29	10.7	No Change
SCV094-A	3/27/2023 10:26	7.9	Initial reading, Closed well

Well ID	Date and Time	Oxygen (%)	Comments
SCV094-A	3/27/2023 10:28	4.3	No Change
SCV094-A*	6/23/2023 17:54	7.1	Initial reading, Valve Needs Replacement
SCV094-A*	6/23/2023 17:56	7.2	Follow up reading, No Change
SCV094-A*	7/3/2023 13:25	7.0	Initial reading,No Change
SCV094-A*	7/11/2023 11:41	8.1	
SCV094-A*	7/24/2023 7:53	8.5	No ChangeValve Needs Replacement
SCV099-A	3/16/2023 10:22	5.4	Initial reading,Closed well
SCV099-A	3/16/2023 10:24	4.7	No Change
SCV100-3	2/21/2023 9:46	5.4	Initial reading,Closed well
SCV100-3	2/21/2023 9:59	5.5	No Change
SCV100-3	3/3/2023 10:42	5.7	Initial reading,Closed well
SCV100-3	3/3/2023 10:45	8.0	No Change
SCV100-3	3/16/2023 10:29	20.8	Initial reading, Closed well
SCV100-3	3/16/2023 10:31	20.7	No Change
SCV100-3	4/4/2023 13:32	0.5	Initial reading,Opened well
SCV100-3*	7/25/2023 7:43	11.3	Initial reading, No Change Valve at minimum position, Lateral Vacuum loss,,,,
SCV100-3*	7/25/2023 7:45	12.8	Follow up reading, No Change Valve at minimum position
	· ·		
SCV100-5	2/28/2023 12:59	17.2	Initial reading,Closed well
SCV100-5	2/28/2023 13:01	5.7	No Change
SCV100-5	3/13/2023 9:23	18.8	Initial reading,Closed well
SCV100-5	3/13/2023 9:25	13.2	No Change
SCV100-5	3/22/2023 8:35	4.3	Initial reading, Opened well
3001003	3/22/2023 0.33	7.3	initial reading, opened well
SCV100-5*	7/24/2023 10:17	12.6	No Change
3001003	7/24/2023 10:17	12.0	No change
SCV1007A	2/24/2023 12:12	8.0	Initial reading,Closed well
SCV1007A	2/24/2023 12:14	8.2	Follow up reading, No Change
SCV1007A	3/9/2023 13:01	9.5	Initial reading, Opened well
SCV1007A	3/9/2023 13:04	11.1	No Change
SCV1007A SCV1007A	3/22/2023 8:45	5.0	Initial reading, Closed well
SCV1007A SCV1007A	3/22/2023 8:47	4.5	•
3CV1007A	3/22/2023 8:47	4.5	No Change
SCV/1007A	4/13/2023 10:13	10.7	Initial reading,Closed well
SCV1007A		10.7	
SCV1007A	4/13/2023 10:15	16.4	No Change
SCV1007A	4/25/2023 8:42	20.7	Initial reading,Closed well
SCV1007A	4/25/2023 8:43	20.7	No Change
SCV1007A	5/8/2023 10:54	20.9	Initial reading,No ChangeOngoing exceedance
SCV1007A	5/10/2023 13:42	4.8	Initial reading,Closed well
	= 1.= 10 :		
SCV1007A	5/17/2023 13:24	8.5	Initial reading,Closed well
SCV1007A	5/17/2023 13:25	9.9	No Change
SCV1007A	5/25/2023 9:04	9.3	Initial reading,Closed well
SCV1007A	5/25/2023 9:05	15.2	No Change
SCV1007A	6/12/2023 14:47	14.4	Initial reading, No Change Valve Needs Replacement, Pump Needs Maintenance,,,,
SCV1007A	6/13/2023 10:27	15.6	Initial reading,Closed well
SCV1007A	6/13/2023 10:31	20.6	Follow up reading, No Change
SCV1007A	6/26/2023 16:02	1.0	Initial reading,Opened well
SCV100-A	2/13/2023 12:25	7.4	Initial reading, No ChangeValve at minimum position
	2/13/2023 12:26	7.7	Follow up reading, No Change
SCV100-A	Z/ 1 3/ ZUZ3 1Z.ZD	1.1	
SCV100-A SCV100-A	2/21/2023 10:03	6.3	Initial reading, Closed well

Well ID	Date and Time	Oxygen (%)	Comments
SCV100-A	2/24/2023 12:21	0.3	Initial reading,No Change
	2 /2 /2 22 2 2 2 2		
SCV100-A	3/3/2023 10:52	12.7	Initial reading,Closed well,Valve at minimum position
SCV100-A	3/3/2023 10:55	10.3	No Change
SCV100-A	3/16/2023 10:35	20.3	Initial reading,Closed well,Valve at minimum position
SCV100-A	3/16/2023 10:37	20.8	No Change
SCV100-A	4/4/2023 13:40	9.9	Initial reading,Opened well
SCV100-A	4/4/2023 13:42	12.2	No Change
SCV100-A	4/4/2023 13:43	16.6	No Change
SCV100-A	4/20/2023 12:13	15.6	Initial reading, Valve at minimum position
SCV100-A	4/20/2023 12:14	17.6	No Change
SCV100-A	4/26/2023 9:22	19.6	Initial reading, Valve at minimum position
SCV100-A	4/26/2023 9:23	19.9	No Change
SCV100-A	5/3/2023 12:24	8.4	No Change
SCV100-A	5/10/2023 13:18	6.9	Initial reading,Closed well
SCV100-A	5/10/2023 13:19	11.8	No Change
SCV100-A	5/17/2023 10:39	7.8	Initial reading,Closed well
SCV100-A	5/17/2023 10:41	9.0	No Change
SCV100-A	6/14/2023 15:24	13.2	
SCV100-A	6/14/2023 15:24	13.2	
SCV100-A	6/14/2023 15:25	14.5	Follow up reading, Closed well
SCV100-A	6/20/2023 12:22	10.8	
SCV100-A	6/20/2023 12:25	4.8	Follow up reading,
SCV100-A*	7/12/2023 10:21	17.2	No ChangeValve at minimum position
SCV100-A*	7/18/2023 13:13	11.6	No ChangeValve at minimum position
SCV100-A*	7/25/2023 7:48	10.3	Initial reading, No ChangeValve at minimum position, Lateral Vacuum loss,,,,
SCV100-A*	7/25/2023 7:50	11.1	Follow up reading,No ChangeValve at minimum position,Lateral Vacuum loss,,,,
SCV100-A*	7/26/2023 8:25	9.8	No ChangeValve at minimum position
SCV10-1A	2/28/2023 12:29	5.7	Initial reading, Valve at minimum position
SCV10-1A	2/28/2023 12:31	4.9	No Change
3CV10-1A	2/20/2023 12.31	4.5	NO Change
SCV10-1A	3/13/2023 11:12	20.0	Initial reading,Closed well
SCV10-1A	3/13/2023 11:15	13.6	No Change
SCV10-1A	3/20/2023 8:24	19.5	Initial reading, Valve at minimum position
SCV10-1A	3/20/2023 8:25	12.2	No Change
SCV10-1A	4/11/2023 12:25	1.1	Initial reading,Opened well
			6, 4, 1
SCV10-1A*	6/14/2023 16:04	9.1	,
SCV10-1A*	6/14/2023 16:06	11.3	Follow up reading, Closed well, No Change Valve at minimum position,,,,
SCV10-1A*	6/27/2023 11:00	9.9	No ChangeValve at minimum position
SCV10-1A*	7/17/2023 8:39	7.7	No ChangeValve at minimum position
SCV103-A	3/22/2023 10:28	17.4	Initial reading,Opened well
SCV103-A	3/22/2023 10:30	16.5	No Change
SCV103-A	4/10/2023 9:25	14.9	Initial reading,Closed well
SCV103-A	4/10/2023 9:30	7.6	Follow up reading,No Change
SCV103-A	4/10/2023 10:56	1.0	Follow up reading,Closed well
600) / 5 = -	0/0/0055 : 5 : 5		
SC0V105A	3/9/2023 10:16	6.4	Initial reading, Closed well
SC0V105A	3/9/2023 10:18	3.0	No Change
SC0V105A	3/22/2023 13:07	11.3	Initial reading,Closed well
SCOV105A SCOV105A	3/22/2023 13:07	4.9	No Change
3COV 103A	3/22/2023 13.11	4.3	NO CHAIRE
SC0V106A	5/8/2023 15:49	9.6	Initial reading, Closed well

Well ID	Date and Time	Oxygen (%)	Comments
SC0V106A	5/8/2023 15:50	9.7	Follow up reading,No Change
SC0V106A	5/16/2023 9:42	6.6	Initial reading, Closed well
SC0V106A	5/16/2023 9:44	7.2	No Change
SC0V106A	6/12/2023 16:40	0.0	Initial reading, No ChangeValve at minimum position
SCV109-A	2/13/2023 12:52	8.9	Initial reading,Closed well
SCV109-A	2/13/2023 12:54	9.0	Follow up reading, No Change
SCV109-A	2/21/2023 9:10	5.2	Initial reading, Closed well
SCV109-A	2/21/2023 9:11	5.4	No Change
SCV109-A	3/1/2023 9:39	9.8	Initial reading, Closed well
SCV109-A	3/1/2023 9:40	12.4	No Change
SCV109-A	3/17/2023 8:15	5.6	Initial reading, Closed well
SCV109-A	3/17/2023 8:17	4.6	No Change
SCV109-A	4/25/2023 14:14	6.3	Initial reading, Closed well
SCV109-A	4/25/2023 14:15	6.4	No Change
SCV109-A	5/3/2023 10:43	0.0	Initial reading,Opened well
	5/5/2525 253.5		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
SC0V110A	3/20/2023 10:29	6.9	Initial reading,Closed well
SC0V110A	3/20/2023 10:33	5.4	No Change
SC0V110A	4/13/2023 8:47	0.2	Initial reading,Opened well
SCV113-0	2/21/2023 13:11	6.6	Initial reading, Closed well
SCV113-0	2/21/2023 13:15	4.9	No Change
367113 0	2/21/2023 13:13	4.5	110 Change
SCV113-0	3/22/2023 13:16	7.3	Initial reading, Closed well
SCV113-0	3/22/2023 13:19	4.8	Initial reading, No Change
SCV114-0	3/22/2023 13:30	7.4	Initial reading,Closed well
SCV114-0	3/22/2023 13:32	3.5	
SCV116-A	3/13/2023 9:14	9.4	Initial reading, Closed well
SCV116-A	3/13/2023 9:16	9.7	No Change
SCV116-A	3/27/2023 11:01	0.0	Initial reading,Opened well
SCV116-A	C/44/2022 45:20	11.5	
	6/14/2023 15:38 6/14/2023 15:39	11.5 12.6	
SCV116-A SCV116-A	6/20/2023 12:13	4.4	
3CV110-A	0/20/2023 12:13	4.4	
SCV117-A	2/28/2023 12:22	5.3	Initial reading, Closed well
SCV117-A	2/28/2023 12:25	6.0	No Change
SCV117-A	3/13/2023 11:05	20.5	Initial reading, Closed well
SCV117-A	3/13/2023 11:07	20.9	No Change
SCV117-A	3/20/2023 8:19	20.9	Initial reading, Valve at minimum position
SCV117-A	3/20/2023 8:21	21.1	No Change
SCV117-A	4/11/2023 12:19	16.0	Initial reading, Valve at minimum position
SCV117-A	4/11/2023 12:20	18.4	No Change
SCV117-A	4/24/2023 8:10	0.1	Initial reading,Opened well
SCV117-A*	7/17/2023 8:42	5.7	No ChangeValve at minimum position
	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
SCV120-0	2/1/2023 9:34	6.9	Initial reading, Valve at minimum position
SCV120-0	2/1/2023 9:35	7.2	No Change
SCV120-0	2/20/2023 11:11	0.2	Initial reading,Opened well
SCV120-0	3/10/2023 10:54	13.2	Initial reading, Closed well
SCV120-0	3/10/2023 10:56	4.7	No Change
3011200	5, 15, 2525 10.50		THE CHANGE

SCV120-0 3/31/2023 8-23 10.9 Initial reading, Opened well	Well ID Date and Time Oxygen (%)		Oxygen (%)	Comments			
SCV120-0 3/31/2038.25 12.4 No Change	SCV120-0	3/21/2022 8⋅22	10.9	Initial reading Opened wall			
SCV120-0							
SCV120-0				9			
SCV120-0 4/25/2023 11:40 9.6 No Change							
SCV12D-0 4/25/2023 11:40 9.6 No Change SCV12D-0 5/9/2023 12:59 4.3 Initial reading Valve at minimum position SCV12D-0 5/18/2023 11:14 6.8 Initial reading Valve at minimum position SCV12D-0 5/18/2023 11:15 7.7 No Change SCV12B-A 2/27/2023 9:24 8.0 Initial reading Closed well SCV12B-A 2/27/2023 9:25 0.8 No Change SCV12B-A 2/27/2023 9:24 6.2 Initial reading Closed well SCV12B-A 3/20/2023 10:24 6.3 No Change SCV12B-A 3/20/2023 10:24 6.3 No Change SCV12B-A 3/20/2023 10:24 6.3 No Change SCV13S-O 3/30/2023 14:55 5.2 initial reading, Closed well SCV13S-O 3/20/2023 11:45 5.8 Initial reading, Closed well SCV13S-O 5/2/2023 11:49 7.7 No Change SCV13S-O 5/15/2023 10:38 6.8 Initial reading, Closed well SCV13S-O 5/15/2023 10:31 6.8 Initial reading, Closed wel							
SCV120-0 S/9/2023 12:59 4.3 Initial reading, Valve at minimum position							
SCV120-0 S/18/2023 11:14 6.8 Initial reading, Valve at minimum position							
SCV120-0 S/18/2023 11:15 7.7 No Change	3CV12U-U	3/3/2023 12.33	4.5	miciai reading, vaive at minimum position			
SCV120-0 S/18/2023 11:15 7.7 No Change	SCV120-0	5/18/2023 11:14	6.8	Initial reading, Valve at minimum position			
SCV128-A 2/27/2023 9:24 8.0 Initial reading,Closed well	SCV120-0		7.7				
SCV128-A 2/27/2023 9:24 8.0 Initial reading,Closed well SCV128-A 2/27/2023 9:25 0.8 No Change SCV128-A 3/20/2023 10:22 6.2 Initial reading,Closed well SCV128-A 3/20/2023 10:24 6.3 No Change SCV128-A 4/14/2023 9:04 0.0 Initial reading,Opened well SCV135-O 3/30/2023 14:55 5.2 Initial reading,Opened well SCV135-O 3/30/2023 14:57 3.3 No Change SCV135-O 5/2/2023 11:49 5.8 Initial reading,Closed well SCV135-O 5/2/2023 11:49 7.7 No Change SCV135-O 5/12/2023 10:15 6.8 Initial reading,Closed well SCV135-O 5/12/2023 10:15 6.8 Initial reading,Closed well SCV135-O 5/19/2033 9:16 21.0 No Change SCV135-O 5/19/2033 9:17 21.0 No Change SCV135-O 5/19/2033 11:58 16.0 Follow up reading,Closed well,Valve at minimum position SCV135-O 7/21/2033 7:15 9.3 No ChangeVal	SCV120-0		4.5	<u> </u>			
SCV128-A 2/27/2023 9:25 0.8 No Change		5, 25, 2525 25.55					
SCV128-A 2/27/2023 9:25 0.8 No Change	SCV128-A	2/27/2023 9:24	8.0	Initial reading, Closed well			
SCV128-A 3/20/2023 10:22	SCV128-A		0.8				
SCV128-A 3/20/2023 10:24 6.3 No Change SCV128-A 4/14/2023 9:04 0.0 Initial reading, Opened well SCV135-0 3/30/2023 14:55 5.2 Initial reading, Opened well SCV135-0 3/30/2023 14:57 3.3 No Change SCV135-0 5/2/2023 11:45 5.8 Initial reading, Closed well SCV135-0 5/2/2023 11:49 7.7 No Change SCV135-0 5/15/2023 10:15 6.8 Initial reading, Closed well SCV135-0 5/15/2023 10:18 20.4 No Change SCV135-0 5/15/2023 9:16 21.0 Initial reading, Closed well SCV135-0 5/19/2023 9:17 21.0 No Change SCV135-0 5/19/2023 9:17 21.0 No Change SCV135-0 6/15/2023 11:54 16.1 Initial reading, Closed well, Valve at minimum position SCV135-0 6/15/2023 11:49 16.0 Follow up reading, No ChangeValve at minimum position SCV135-0* 7/21/2023 7:5 9.3 No ChangeValve at minimum position SCV136-0 6/15/2023 11:41							
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SCV138-0 5/2/2023 11:25 6.7 No Change SCV138-0 5/15/2023 10:03 13.1 Initial reading, Closed well SCV138-0 5/15/2023 10:05 18.6 No Change SCV138-0 5/19/2023 8:54 11.6 Initial reading, Closed well SCV138-0 5/19/2023 8:56 11.5 No Change SCV138-0 6/13/2023 15:02 10.9 Initial reading, Closed well SCV138-0 6/13/2023 15:05 8.1 Follow up reading, No Change SCV138-0* 7/11/2023 6:23 13.3 Initial reading, Closed well SCV138-0* 7/11/2023 6:31 10.8 Follow up reading, No Change SCV138-0* 7/13/2023 8:10 11.5 Initial reading, Closed well SCV138-0* 7/13/2023 8:10 11.5 Initial reading, Closed well SCV138-0* 7/13/2023 8:12 8.7 Follow up reading,	SCV138-0	4/28/2023 15:55	17.4	Follow up reading, Valve at minimum position			
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SCV138-0 5/15/2023 10:05 18.6 No Change SCV138-0 5/19/2023 8:54 11.6 Initial reading, Closed well SCV138-0 5/19/2023 8:56 11.5 No Change SCV138-0 6/13/2023 15:02 10.9 Initial reading, Closed well SCV138-0 6/13/2023 15:05 8.1 Follow up reading, No Change SCV138-0 6/22/2023 15:20 0.0 SCV138-0* 7/11/2023 6:23 13.3 Initial reading, Closed well SCV138-0* 7/11/2023 6:31 10.8 Follow up reading, No Change SCV138-0* 7/13/2023 8:10 11.5 Initial reading, Closed well SCV138-0* 7/13/2023 8:12 8.7 Follow up reading,	SCV138-0	5/15/2023 10:03	13.1	Initial reading, Closed well			
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SCV138-0* 7/11/2023 6:31 10.8 Follow up reading, No Change SCV138-0* 7/13/2023 8:10 11.5 Initial reading, Closed well SCV138-0* 7/13/2023 8:12 8.7 Follow up reading,	SCV138-0*	7/11/2023 6:23	13.3	Initial reading, Closed well			
SCV138-0* 7/13/2023 8:10 11.5 Initial reading, Closed well SCV138-0* 7/13/2023 8:12 8.7 Follow up reading,			10.8				
SCV138-0* 7/13/2023 8:12 8.7 Follow up reading,			i				
			11.0				

Well ID	Date and Time	Oxygen (%)	Comments
SCV138-0*	7/21/2023 6:42	15.6	Follow up reading, No ChangeValve at minimum position
SCV138-0*	7/21/2023 8:32	11.7	Follow up reading, No Change Valve at minimum position
SCV138-0*	7/21/2023 8:39	9.5	Follow up reading, No ChangeValve at minimum position
SCV139-0	2/3/2023 10:21	6.8	Initial reading,Closed well
SCV139-0	2/3/2023 10:21	6.5	No Change
SCV139-0	2/20/2023 12:31	1.4	Initial reading, Opened well
0012000	2,20,2020 22.02		maa. reaag, openea men
SCV139-0	3/6/2023 10:28	13.9	Initial reading,Closed well
SCV139-0	3/6/2023 10:29	13.8	Follow up reading, No Change
SCV139-0	3/17/2023 8:42	15.0	Initial reading,Closed well
SCV139-0	3/17/2023 8:45	20.6	No Change
SCV139-0	4/4/2023 11:13	0.0	Initial reading,Opened well
SCV139-0	6/13/2023 14:50	5.8	Initial reading, Closed well, Valve at minimum position
SCV139-0	6/13/2023 14:55	4.9	Follow up reading, No Change
307133 0	0/13/2023 11.33	5	rollow up reading, no change
SCV140-0	2/23/2023 9:51	17.1	Initial reading,Opened well
SCV140-0	2/23/2023 9:53	14.9	No Change
SCV140-0	3/6/2023 10:17	9.1	Initial reading,Closed well
SCV140-0	3/6/2023 10:24	9.1	Follow up reading, No Change
SCV140-0	3/17/2023 8:29	6.6	Initial reading,Closed well
SCV140-0	3/17/2023 8:34	13.9	No Change
SCV140-0	4/4/2023 11:04	0.0	Initial reading,Opened well
SCV140-0	4/28/2023 16:23	17.6	Follow up reading,
SCV140-0	5/2/2023 11:09	17.8	Initial reading,Closed well
SCV140-0	5/2/2023 11:03	18.0	No Change
SCV140-0	5/15/2023 9:26	1.1	Initial reading,Closed well
			<u>.</u>
SCV140-0	6/13/2023 14:24	10.1	Initial reading,Closed well
SCV140-0	6/13/2023 14:40	17.4	Follow up reading, Closed well, Valve at minimum position
SCV140-0	6/22/2023 15:31	0.0	
SCV141-0	6/14/2023 14:18	7.0	Follow up reading, Closed well, Valve at minimum position
SCV141-0	6/14/2023 14:20	6.7	Follow up reading, No Change
SCV141-0	6/19/2023 14:24	0.0	Initial reading, Opened well
0012.20	0,10,1010 1	9.0	maa. road. 16, op onde tren
SCV142-0	3/10/2023 10:21	5.2	Initial reading,Closed well
SCV142-0	3/10/2023 10:23	4.9	No Change
SCV143-0	4/25/2023 12:02	5.6	Initial reading,Closed well
SCV143-0	4/25/2023 12:04	5.4	No Change
SCV143-0	5/8/2023 15:01	0.0	Initial reading, Opened well
0012.00	3, 0, 2020 20:02	9.0	maa. road. 16, op onde tren
SCV143-0	7/20/2023 10:35	6.2	No ChangeValve at minimum position
SCV143-0	7/25/2023 11:59	0.0	Initial reading,Opened well
SCV145-0	6/14/2023 14:55	9.1	Initial reading,
SCV145-0 SCV145-0	6/14/2023 14:58	8.3	Follow up reading,Closed well,Valve at minimum position
SCV145-0 SCV145-0	6/19/2023 14:58	0.6	Initial reading,Opened well
2C 4 T+7-0	0/13/2023 14.03	0.0	mittai reading,Opened well
SCV149-A	3/1/2023 9:58	7.2	Initial reading, Closed well, Valve at minimum position
SCV149-A	3/1/2023 10:00	4.6	No Change
COV4 40 *	2/46/2022 12.51	10.4	Lattical according Modern and Artista
SCV149-A	3/16/2023 10:51	10.4	Initial reading, Valve at minimum position
SCV149-A	3/16/2023 10:53	14.3	No Change

Well ID	Date and Time	Oxygen (%)	Comments
SCV149-A	4/6/2023 8:55	0.2	Initial reading,Opened well
SCV202-0	2/27/2023 14:15	6.1	Valve 100% open,
SCV202-0	3/2/2023 16:35	9.1	Initial reading,Closed well
SCV202-0	3/2/2023 16:36	11.5	No Change
SCV202-0	3/17/2023 8:57	16.4	Initial reading, Valve at minimum position
SCV202-0	3/17/2023 9:01	10.8	No Change
SCV202-0	4/6/2023 10:35	0.4	Valve 100% open,
SCV215-0	3/10/2023 9:20	5.1	Initial reading, Closed well
SCV215-0	3/10/2023 9:21	4.2	No Change
SCV216-0	7/10/2023 9:27	5.4	Initial reading,Closed well
SCV216-0	7/10/2023 9:27	5.4	Initial reading, Closed well
SCV216-0	7/10/2023 9:30	8.3	Follow up reading,No Change
SCV216-0	7/17/2023 12:42	0.1	Initial reading,Opened well
	· ·		<u> </u>
SCV219-0	5/22/2023 9:10	5.7	Initial reading, Closed well
SCV219-0	5/22/2023 9:11	6.1	No Change
SCV219-0	5/25/2023 10:36	6.3	Initial reading, Closed well
SCV219-0	5/25/2023 10:37	8.4	No Change
SCV219-0	6/7/2023 14:45	3.0	Initial reading, No Change
	., ,		, , , , , , , , , , , , , , , , , , ,
SCV219-0	7/10/2023 9:13	8.1	Follow up reading,Closed well
SCV219-0	7/10/2023 9:16	7.6	Follow up reading, No ChangeValve at minimum position
SCV219-0	7/17/2023 12:26	0.3	Initial reading,Opened well
367213 0	771772023 12.20	0.0	miliar reading, opened wen
SCV220-0	6/7/2023 14:36	10.0	Initial reading, No Change
SCV220-0	6/7/2023 14:39	20.4	Follow up reading, Closed well, Valve at minimum position
SCV220-0	6/21/2023 11:04	20.5	Initial reading, No Change Valve at minimum position
SCV220-0	6/21/2023 11:52	0.0	Initial reading, No Change Valve at minimum position
3012200	0/21/2023 11:32	0.0	miliar reading/10 change raive at milimain position
SCV220-0	7/10/2023 8:59	21.5	No ChangeValve at minimum position
SCV220-0	7/17/2023 12:19	19.1	No ChangeValve at minimum position
SCV220-0	7/25/2023 12:12	15.0	Initial reading, No Change Valve at minimum position
SCV220-0	7/25/2023 12:12	6.9	Follow up reading, No Change
SCV220-0	7/28/2023 9:28	0.0	No ChangeValve at minimum position
3012200	7720720233.20	0.0	The change valve at minimum position
SCV222-0	3/28/2023 12:52	7.7	Initial reading, Closed well
SCV222-0	3/28/2023 12:54	8.7	No Change
SCV222-0	4/11/2023 10:11	16.9	Initial reading, Closed well
SCV222-0	4/11/2023 10:11	18.8	No Change
SCV222-0	4/24/2023 10:31	0.3	Initial reading,Opened well
30 4 2 2 2 - 0	4/24/2023 10.31	0.3	ilililai reauliig,Operieu well
SCV222-0	5/22/2023 8:40	11.2	Initial reading, Valve at minimum position
SCV222-0 SCV222-0	5/22/2023 8:40	0.7	nitial reading, valve at minimum position No Change
3CV222-U	3/22/2023 8:40	0.7	INO CHAIIKE
SC/222 0	6/20/2022 12:15	116	
SCV222-0	6/20/2023 12:15	14.6 0.3	Follow up reading, Valve at minimum position
SCV222-0	6/20/2023 12:20	0.5	ronow up redunig, valve at minimum position
CCV222.0	7/10/2022 0:47	17.0	No Change Value at minimum and ities
SCV222-0	7/10/2023 8:47	17.9	No ChangeValve at minimum position
SCV222-0	7/13/2023 7:44	0.0	No ChangeValve at minimum position
60.4555	F /40/0000 10 05		
SCV223-0	5/19/2023 13:26	8.7	Initial reading,Closed well
SCV223-0	5/19/2023 13:27	2.4	No Change
	0/00/		the second secon
SCV226-0	3/28/2023 12:35	20.5	Initial reading, Valve at minimum position

Well ID Date and Time Oxygen (%)		Comments	
SCV226-0	3/28/2023 12:36	14.9	No Change
SCV226-0	4/11/2023 9:57	0.3	Initial reading,Opened well
SCV228-0	2/1/2023 13:45	16.1	Initial reading, Valve at minimum position
SCV228-0	2/1/2023 13:46	17.1	No Change
SCV228-0	2/20/2023 13:26	17.7	Initial reading, Closed well
SCV228-0	2/27/2023 9:36	1.0	Initial reading,Closed well
SCV228-0	5/19/2023 13:14	9.1	Initial reading,Closed well
SCV228-0	5/19/2023 13:15	2.0	No Change
SCV230-0	3/28/2023 12:15	17.5	Initial reading, Valve at minimum position
SCV230-0	3/28/2023 12:17	20.9	No Change
SCV230-0	4/6/2023 13:27	0.0	No Change
SCV230-0	4/24/2023 12:52	19.5	Initial reading, Valve at minimum position
SCV230-0	4/24/2023 12:53	20.4	No Change
SCV230-0	5/5/2023 10:39	0.0	No Change
SCV232-0	5/5/2023 10:27	5.2	No Change
SCV232-0	5/10/2023 14:11	1.7	Initial reading,Opened well
	- 1 - 1		
SCV234-0	3/13/2023 11:55	7.6	Initial reading,Closed well
SCV234-0	3/13/2023 11:57	8.3	No Change
SCV234-0	3/28/2023 11:53	0.9	Initial reading,Closed well
50,4224.0	7/40/2022 2 24		
SCV234-0	7/10/2023 8:31	5.2	Initial reading,Closed well,Valve at minimum position
SCV234-0	7/10/2023 8:33	5.2	Follow up reading, No ChangeValve at minimum position
SCV234-0	7/17/2023 11:49	0.0	No Change
SCV22C 0	2/2/2022 16.52	5.7	Initial reading Value at minimum position
SCV236-0 SCV236-0	3/2/2023 16:52 3/2/2023 16:54	6.9	Initial reading, Valve at minimum position
SCV236-0	3/16/2023 8:42	20.5	No Change Initial reading,Closed well
SCV236-0	3/16/2023 8:43	20.7	No Change
SCV236-0	4/6/2023 10:20	18.4	Initial reading, Closed well
SCV236-0	4/6/2023 10:22	18.8	No Change
SCV236-0	4/20/2023 13:58	20.8	Initial reading, Valve at minimum position
SCV236-0	4/20/2023 13:59	20.8	No Change
SCV236-0	5/2/2023 11:00	21.1	Initial reading, Valve at minimum position
SCV236-0	5/2/2023 11:00	21.1	No Change
SCV236-0	5/15/2023 11:33	4.1	No Change
3072300	3/13/2023 11.33	7.1	No change
SCV242-0	2/8/2023 8:51	7.7	Initial reading, Valve at minimum position
SCV242-0	2/8/2023 8:53	4.6	No Change
	_, _,		
SCV242-0	2/20/2023 13:56	7.3	Initial reading, Closed well
SCV242-0	2/20/2023 13:57	12.4	No Change
SCV242-0	3/9/2023 12:13	15.2	Initial reading, Closed well
SCV242-0	3/9/2023 12:15	5.0	No Change
SCV242-0	3/28/2023 13:00	10.0	Initial reading, Valve at minimum position
SCV242-0	3/28/2023 13:02	12.1	No Change
SCV242-0	4/11/2023 10:16	15.8	Initial reading, Valve at minimum position
SCV242-0	4/11/2023 10:17	16.1	No Change
SCV242-0	4/24/2023 10:36	11.3	Valve at minimum position,
SCV242-0	4/24/2023 10:37	10.6	No Change
SCV242-0	5/4/2023 9:48	20.6	Initial reading, Valve at minimum position
SCV242-0	5/4/2023 9:49	20.6	No Change
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Well ID	Date and Time	Oxygen (%)	Comments
SCV242-0	5/18/2023 8:26	14.0	Initial reading, Closed well
SCV242-0	5/18/2023 8:27	14.1	No Change
SCV242-0	5/22/2023 8:53	18.7	Initial reading, Valve at minimum position
SCV242-0	5/22/2023 8:54	18.9	No Change
SCV242-0	6/7/2023 14:10	19.8	Initial reading,No Change
SCV242-0	6/7/2023 14:17	20.0	Follow up reading, Valve at minimum position, Ongoing exceedance
SCV242-0	6/19/2023 16:39	1.9	Initial reading,No Change
SCV242-0	7/10/2023 8:51	19.8	No ChangeValve at minimum position
SCV242-0	7/17/2023 12:11	5.6	No ChangeValve at minimum position
SCV242-0	7/25/2023 12:31	2.2	No Change
SCV49-1A	3/22/2023 10:48	16.1	Initial reading,Closed well
SCV49-1A	3/22/2023 10:53	10.7	No Change
SCV49-1A	4/10/2023 9:43	0.7	Initial reading, No Change Valve Needs Replacement
SCEW/2002	2/20/2022 45:20	6.0	Initial roading Closed well
SCEW2002 SCEW2002	2/28/2023 15:39 2/28/2023 15:55	6.8	Initial reading,Closed well No Change
	3/7/2023 11:24	4.3	Initial reading,Closed well
SCEW2002	5/7/2025 11.24	4.5	ilitiai reading, closed well
SCEW2006	3/20/2023 9:37	5.4	Initial reading,Closed well
SCEW2006	3/20/2023 9:40	3.9	No Change
302112000	3/20/2023 3:10	3.3	The change
SCEW2007	3/20/2023 9:23	21.0	Initial reading,Closed well
SCEW2007	3/20/2023 9:25	6.9	No Change
SCEW2007	4/13/2023 12:57	0.0	Initial reading,Opened well
302112007	., 10, 1010 11.07	0.0	
SCEW2009	2/28/2023 13:48	5.8	Initial reading, Closed well
SCEW2009	2/28/2023 13:49	1.6	No Change
	, ,, ,		0.
SCEW2011	3/20/2023 12:00	5.8	Initial reading, Closed well
SCEW2011	3/20/2023 12:02	2.2	No Change
			-
SCEW2013	3/7/2023 8:56	6.7	Initial reading, Closed well
SCEW2013	3/7/2023 8:58	6.3	No Change
SCEW2013	3/20/2023 10:02	6.1	Initial reading, Closed well
SCEW2013	3/20/2023 10:04	5.0	No Change
SCEW2013	4/14/2023 9:10	0.0	Initial reading,Opened well
SCEW2017	4/13/2023 9:03	7.1	Initial reading,Closed well
SCEW2017	4/13/2023 9:04	4.0	No Change
SCEW2101	6/29/2023 12:45	5.5	Follow up reading, No Change
SCEW2101	6/29/2023 12:45	5.5	Follow up reading, No Change
SCEW2101	7/3/2023 13:59	1.1	
SCEW2201	4/11/2023 11:41	19.5	
SCEW2201	4/11/2023 11:42	0.3	
	2/22/22		
SCEW2210	3/22/2023 10:21	20.9	
SCEW2210	3/22/2023 10:22	20.9	
SCEW2210	4/4/2023 10:16	0.3	
CCEWARR	2/22/2022 42 26	60	
SCEW2206	3/22/2023 13:36	6.0	
SCEW2206	3/22/2023 13:37	2.4	
CCEW2207	2/22/2022 44:00	0.2	
SCEW2207	3/22/2023 14:00	8.3	

Well ID	Date and Time	Oxygen (%)	Comments
SCEW2207	3/27/2023 9:04	2.8	
SCEW2208	2/16/2023 15:25	14.6	
SCEW2208	2/16/2023 15:26	3.6	
SCEW2208	3/13/2023 8:39	8.8	
SCEW2208	3/13/2023 8:40	9.0	
SCEW2208	3/27/2023 10:18	0.0	
SCEW2208	4/20/2023 12:42	5.4	
SCEW2208	4/20/2023 12:43	9.6	
SCEW2208	5/10/2023 13:29	14.7	
SCEW2208	5/10/2023 13:31	2.8	
SCEW2208*	5/17/2023 12:30	8.5	
SCEW2208*	5/17/2023 12:31	19.4	
SCEW2208*	5/25/2023 8:54	20.1	
SCEW2208*	5/25/2023 8:55	20.2	
SCEW2208*	6/27/2023 13:26	20.6	
SCEW2208*	7/11/2023 11:28	6.3	
SCEW2208*	7/11/2023 11:30	8.7	
SCEW2209	3/22/2023 11:00	18.9	
SCEW2209	3/22/2023 11:02	17.7	
SCEW2209	4/25/2023 9:13	0.2	

Note: All required corrective action and monitoring was completed in accordance with Rule 8-34 and NSPS timelines

Well ID	Date and Time	Initial Temp [°F]	Adjusted Temp [°F]	Comments	Corrective Action
SCEC0009	3/6/2023 12:57	404.8	418.0	Invalid reading, equipment error Valve 100% open	N/A
SCEC0009	3/9/2023 12:24	0.0	0.0	Invalid reading, equipment error Valve 100% open	
SCEC0009	3/29/2023 10:06	46.9	46.9	Valve 100% open	
SCV095-A*	7/11/2023 11:54	133.1	133.0		N/A
SCV095-A*	7/24/2023 8:03	132.0	131.9	No Change	
SCV095-A*	7/25/2023 12:42	132.9	132.9	No Change	
SCV103-A	5/8/2023 10:03	130.5	131.2	Initial reading,Closed well	N/A
SCV103-A	5/8/2023 10:08	131.0	130.9	Follow up reading, No Change	
SC0V108A	6/26/2023 16:28	132.1	131.9	Initial reading,Closed well	N/A
SC0V108A	6/26/2023 16:29	129.9	130.2	Follow up reading, No Change	
SC0V110A*	7/25/2023 6:31	131.1	131.1	No Change	N/A
SCV125A0	6/6/2023 13:32	132.5	132.6		N/A
SCV125A0	6/12/2023 16:15	105.3	112.0	Initial reading,Opened well	
SCV125A0*	6/27/2023 8:47	131.7	131.9	Initial reading,Closed well	RCA
SCV125A0*	6/27/2023 8:47	131.7	131.9	Initial reading,Closed well	
SCV125A0*	6/27/2023 8:49	132.0	132.1	Follow up reading, No Change	
SCV125A0*	6/27/2023 8:49	132.0	132.1	Follow up reading, No Change	
SCV125A0*	7/3/2023 13:48	133.2	133.3		
SCV125A0*	7/12/2023 11:10	133.3	133.3	Initial reading,Opened well	
SCV125A0*	7/12/2023 11:13	133.3	133.3	Follow up reading, No Change	
SCV125A0*	7/24/2023 10:43	133.5	133.5	No Change	

Note: All required corrective action and remonitoring was completed in accordance with Rule 8-34 and NSPS timelines.

Temperature exceedance were corrected within 15 days except for the wells noted in **bold italics**. Root cause analysis forms were completed for these wells. Wells noted with an asterisk (*) remained in exceedance at the end of the reporting period.

Appendix A – Responsible Official Certification Form
Appendix A Responsible official definition of the

Certification of Truth and Accuracy and Completeness:

I certify the following:

Based on the information and belief formed after reasonable inquiry, the information in this document are true, accurate, and complete:

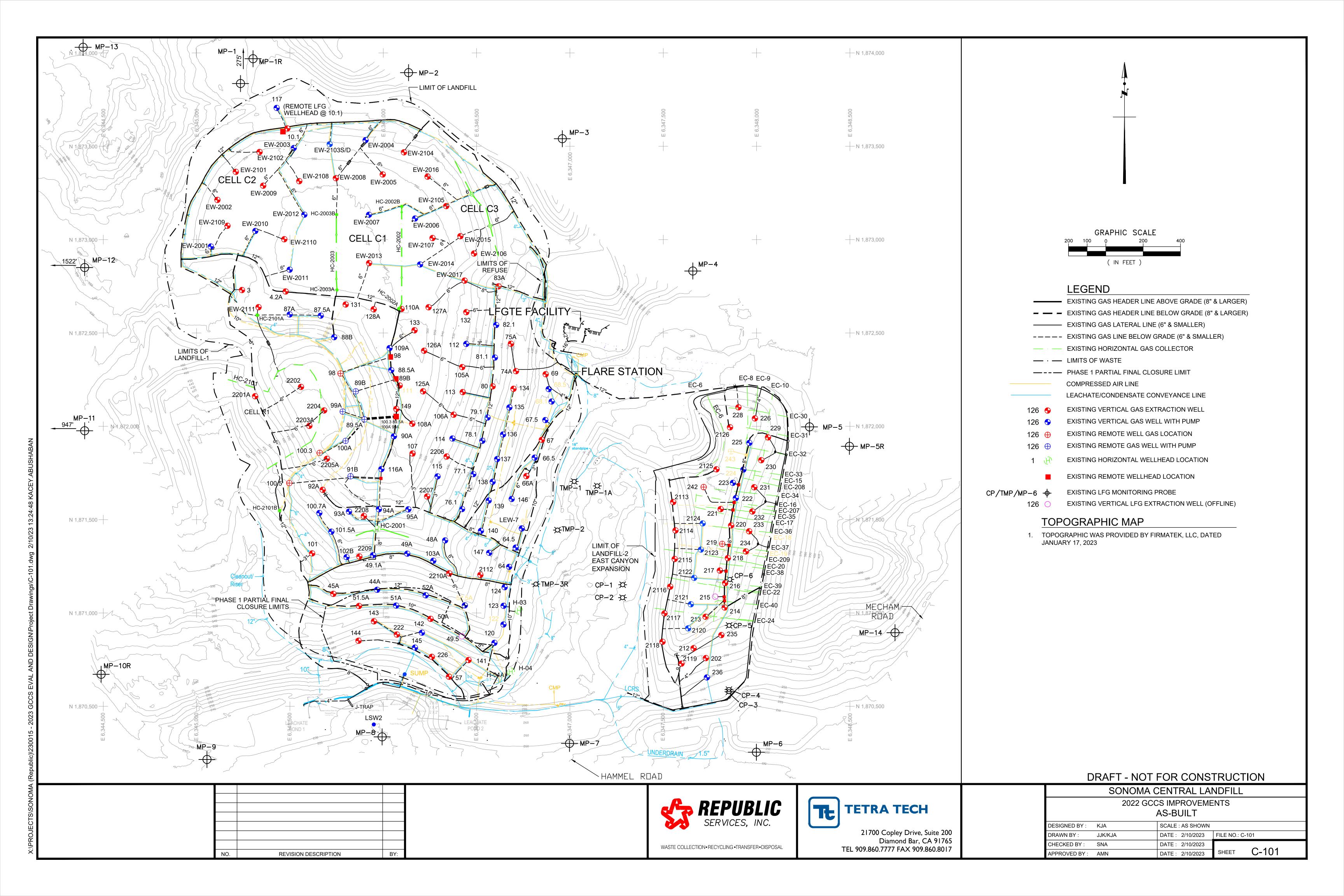
Signature of Responsible Official

8-17-2023 Date

Ken Lewis

Name of Responsible Official

Appendix B - Existing GCCS Layout





Shutdown Date/Time	Startup Date/Time	Duration (Hours)	Engine(s)	Reason for Downtime
2/3/2023 9:34	2/3/2023 11:12	1.63	1 (S-4)	Wellfield issues / detonation
2/7/2023 7:58	2/7/2023 11:18	3.33	1 (S-4)	Wellfield issues / detonation
2/16/2023 5:46	2/16/2023 13:40	7.90	1 (S-4)	High voltage work
2/21/2023 6:16	2/23/2023 12:42	54.43	1 (S-4)	PG&E outage
3/3/2023 21:42	3/7/2023 8:46	83.07	1 (S-4)	Detonation
3/22/2023 5:26	3/22/2023 9:30	4.07	1 (S-4)	Switchgear work
3/23/2023 5:34	3/23/2023 14:14	8.67	1 (S-4)	Wellfield issue
3/30/2023 8:04	3/31/2023 14:00	29.93	1 (S-4)	Wellfield issue
3/31/2023 14:24	4/3/2023 10:30	68.10	1 (S-4)	Wellfield issue
4/11/2023 10:34	4/11/2023 14:20	3.77	1 (S-4)	Detonation and service
5/8/2023 10:02	5/11/2023 10:56	72.90	1 (S-4)	Leak repairs
5/12/2023 8:18	5/12/2023 10:56	2.63	1 (S-4)	Testing and repairs
5/12/2023 12:26	5/12/2023 12:42	0.27	1 (S-4)	Retesting and repairs
5/12/2023 12:52	5/17/2023 10:46	117.90	1 (S-4)	Repairs and waiting on parts
5/18/2023 15:18	5/24/2023 10:26	139.13	1 (S-4)	New leaks
6/28/2023 9:08	6/28/2023 14:18	5.17	1 (S-4)	KW meter Outage and service
6/28/2023 14:24	6/28/2023 14:30	0.10	1 (S-4)	Tuning
6/28/2023 14:32	6/28/2023 14:36	0.07	1 (S-4)	Tuning
6/29/2023 8:10	6/29/2023 14:28	6.30	1 (S-4)	KW meter outage
6/30/2023 8:58	6/30/2023 12:02	3.07	1 (S-4)	KW meter outage
7/12/2023 9:34	7/12/2023 12:30	2.93	1 (S-4)	Tuning
7/12/2023 13:10	7/25/2023 9:14	308.07	1 (S-4)	Broken water line
7/25/2023 10:00	7/25/2023 10:24	0.40	1 (S-4)	Detonation
2/3/2023 9:34	2/3/2023 11:26	1.87	2 (S-5)	Wellfield issues / detonation
2/7/2023 7:58	2/7/2023 11:48	3.83	2 (S-5)	Wellfield issues / detonation
2/15/2023 9:28	2/15/2023 9:38	0.17	2 (S-5)	Detonation and tuning
2/16/2023 5:46	2/16/2023 13:42	7.93	2 (S-5)	High voltage work
2/16/2023 22:46	2/23/2023 12:40	157.90	2 (S-5)	Broken valve
2/24/2023 1:38	2/24/2023 11:32	9.90	2 (S-5)	Detonation and tuning
3/8/2023 8:06	3/8/2023 10:10	2.07	2 (S-5)	Detonation and service
3/9/2023 0:20	8/1/2023 0:00	3479.67	2 (S-5)	Out of service pending troubleshooting
2/1/2023 0:00	2/15/2023 9:44	345.73	3 (S-6)	Ignition issues and repairs
2/16/2023 5:46	2/16/2023 13:50	8.07	3 (S-6)	High voltage work
2/21/2023 6:16	2/23/2023 12:36	54.33	3 (S-6)	PG&E outage
3/22/2023 5:26	3/22/2023 9:36	4.17	3 (S-6)	Switchgear work
3/23/2023 5:34	3/23/2023 13:34	8.00	3 (S-6)	Wellfield issue
3/23/2023 13:38	3/23/2023 14:18	0.67	3 (S-6)	Wellfield issue
3/30/2023 8:04	4/3/2023 10:36	98.53	3 (S-6)	Wellfield Issues
4/11/2023 10:34	4/11/2023 14:24	3.83	3 (S-6)	Detonation and service
4/18/2023 8:34	4/18/2023 9:00	0.43	3 (S-6)	Wellfield Issues
5/8/2023 13:16	5/11/2023 11:16	70.00	3 (S-6)	Leak repairs
5/12/2023 12:52	5/17/2023 11:26	118.57	3 (S-6)	Retest, new leaks, Full service, and waiting on parts
5/18/2023 15:18	5/24/2023 10:30	139.20	3 (S-6)	New leaks and waiting on parts

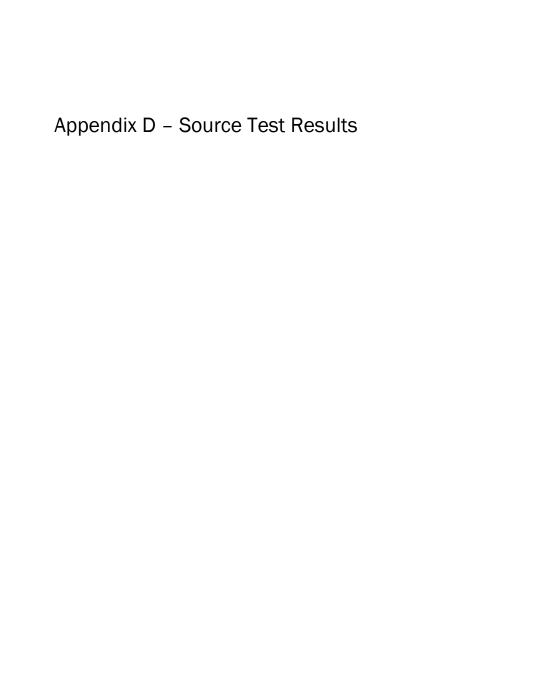
Shutdown Date/Time	Startup Date/Time	Duration (Hours)	Engine(s)	Reason for Downtime
6/28/2023 9:08	6/28/2023 14:30	5.37	3 (S-6)	KW meter Outage and service
6/28/2023 14:32	6/28/2023 14:42	0.17	3 (S-6)	Tuning
6/29/2023 8:12	6/29/2023 14:30	6.30	3 (S-6)	KW meter outage
6/30/2023 8:58	6/30/2023 12:02	3.07	3 (S-6)	KW meter outage
7/20/2023 10:56	7/20/2023 11:36	0.67	3 (S-6)	Detonation
7/24/2023 6:40	7/25/2023 9:30	26.83	3 (S-6)	Tuning
7/28/2023 9:26	7/28/2023 11:22	1.93	3 (S-6)	Detonation
2/1/2023 0:00	7/6/2023 8:52	3728.87	4 (S-7)	Out of service pending overhaul
7/6/2023 14:22	7/7/2023 9:04	18.70	4 (S-7)	Detonation
7/8/2023 7:34	7/10/2023 10:32	50.97	4 (S-7)	Detonation
7/10/2023 11:36	7/10/2023 11:52	0.27	4 (S-7)	Detonation
7/24/2023 6:40	7/25/2023 9:36	26.93	4 (S-7)	Tuning
2/1/2023 0:00	3/8/2023 9:06	849.10	5 (S-9)	Out of service pending overhaul
3/8/2023 9:10	3/8/2023 9:40	0.50	5 (S-9)	Completion of overhaul
3/23/2023 5:32	3/23/2023 14:00	8.47	5 (S-9)	Detonation
3/30/2023 8:06	3/31/2023 13:52	29.77	5 (S-9)	Wellfield issue
3/31/2023 14:24	4/3/2023 10:28	68.07	5 (S-9)	Wellfield Issues
4/11/2023 10:32	4/11/2023 14:10	3.63	5 (S-9)	Wellfield Issues and service
5/9/2023 2:42	5/9/2023 9:30	6.80	5 (S-9)	Main breaker Outage, Overcurrent trip
5/9/2023 11:34	5/10/2023 13:24	25.83	5 (S-9)	Gas cooler motor failure
5/17/2023 8:44	5/17/2023 9:10	0.43	5 (S-9)	Leak testing and repairs
5/17/2023 11:44	5/17/2023 12:16	0.53	5 (S-9)	Leak testing and repairs
5/18/2023 7:54	5/18/2023 11:00	3.10	5 (S-9)	Leak testing and repairs
5/18/2023 14:44	5/19/2023 13:22	22.63	5 (S-9)	Leak testing, repairs, and full service
6/28/2023 9:06	6/28/2023 14:52	5.77	5 (S-9)	KW meter outage
6/29/2023 8:08	6/29/2023 14:44	6.60	5 (S-9)	KW meter outage
6/30/2023 9:00	6/30/2023 12:14	3.23	5 (S-9)	KW meter outage
7/24/2023 6:36	7/25/2023 9:48	27.20	5 (S-9)	Detoation and Service
7/28/2023 17:14	7/29/2023 4:44	11.50	5 (S-9)	Tuning
2/3/2023 9:32	2/3/2023 10:54	1.37	6 (S-10)	Wellfield issues / detonation
2/7/2023 8:30	2/7/2023 11:38	3.13	6 (S-10)	
2/16/2023 5:20	2/17/2023 11:50	30.50	6 (S-10)	Wellfield issues / detonation Wellfield issues / detonation
2/17/2023 13:08	2/17/2023 13:14	0.10	6 (S-10)	
2/18/2023 15:38	2/27/2023 13:30	213.87	6 (S-10)	Detonation and tuning
3/21/2023 10:06	3/21/2023 10:26	0.33	6 (S-10)	Fuels pressure issues
3/23/2023 5:32	3/23/2023 13:54	8.37	6 (S-10)	Detonation Wellfield in the
3/23/2023 5.32	3/23/2023 13:34	0.17	6 (S-10)	Wellfield issue
3/27/2023 11:34	3/23/2023 14:20	0.17	6 (S-10) 6 (S-10)	Wellfield issue
	· ·		` ′	Wellfield issue
3/29/2023 9:54	3/29/2023 13:22	3.47	6 (S-10)	Service
3/29/2023 13:26	3/29/2023 13:36	0.17	6 (S-10)	Detonation
3/30/2023 8:06	8/1/2023 0:00 8/1/2023 0:00	2967.90 4344.00	6 (S-10) 7 (S-11)	Out of service pending overhaul Out of service pending overhaul
2/1/2023 0:00				

Shutdown Date/Time	Startup Date/Time	Duration (Hours)	Engine(s)	Reason for Downtime
2/7/2023 8:16	2/7/2023 11:16	3.00	8 (S-12)	Wellfield issues / detonation
2/7/2023 11:54	2/7/2023 12:04	0.17	8 (S-12)	Detonation and tuning
2/10/2023 12:08	2/10/2023 12:32	0.40	8 (S-12)	Detonation and tuning
2/15/2023 10:10	2/15/2023 10:22	0.20	8 (S-12)	Detonation and tuning
2/15/2023 15:44	2/17/2023 12:00	44.27	8 (S-12)	Wellfield issues / detonation
2/17/2023 13:04	2/17/2023 13:14	0.17	8 (S-12)	Detonation and tuning
2/18/2023 15:38	2/27/2023 13:22	213.73	8 (S-12)	Fuels pressure issues
3/14/2023 6:56	3/14/2023 7:18	0.37	8 (S-12)	Detonation
3/14/2023 11:28	3/14/2023 11:48	0.33	8 (S-12)	Detonation
3/22/2023 16:28	3/29/2023 10:46	162.30	8 (S-12)	Voltage issue
3/29/2023 10:54	3/29/2023 11:02	0.13	8 (S-12)	Detonation
3/29/2023 12:04	3/29/2023 12:12	0.13	8 (S-12)	Detonation
3/30/2023 8:06	3/31/2023 14:12	30.10	8 (S-12)	Wellfield issue
3/31/2023 14:24	4/1/2023 0:00	9.60	8 (S-12)	Wellfield issue
4/1/2023 0:00	4/3/2023 10:24	58.40	8 (S-12)	Wellfield Issues
4/11/2023 10:32	4/11/2023 14:12	3.67	8 (S-12)	Wellfield Issues
5/3/2023 8:58	5/3/2023 9:10	0.20	8 (S-12)	Tuning
5/5/2023 9:02	5/5/2023 9:18	0.27	8 (S-12)	Tuning and checking leaks
5/9/2023 2:42	5/9/2023 9:32	6.83	8 (S-12)	Main breaker Outage, Overcurrent trip
5/9/2023 11:34	5/10/2023 13:18	25.73	8 (S-12)	Gas cooler motor failure and full service
5/11/2023 12:40	5/11/2023 12:46	0.10	8 (S-12)	Tuning
5/12/2023 14:20	5/12/2023 14:26	0.10	8 (S-12)	Tuning
5/18/2023 14:44	5/19/2023 13:22	22.63	8 (S-12)	Leak testing and repairs
5/22/2023 14:08	5/22/2023 14:20	0.20	8 (S-12)	Detonation, wet fuel
5/31/2023 10:20	5/31/2023 10:44	0.40	8 (S-12)	Detonation, wet fuel
6/1/2023 9:58	6/1/2023 10:18	0.33	8 (S-12)	Detonation and tuning
6/17/2023 10:44	6/18/2023 9:56	23.20	8 (S-12)	Service
6/28/2023 9:04	6/28/2023 14:48	5.73	8 (S-12)	KW meter outage
6/29/2023 8:08	6/29/2023 14:36	6.47	8 (S-12)	KW meter outage
6/30/2023 9:00	6/30/2023 12:12	3.20	8 (S-12)	KW meter outage
7/1/2023 11:40	7/2/2023 7:18	19.63	8 (S-12)	Detonation
7/9/2023 14:40	7/10/2023 9:00	18.33	8 (S-12)	Detonation
7/10/2023 13:04	7/10/2023 13:10	0.10	8 (S-12)	Detonation
7/22/2023 11:08	7/25/2023 9:50	70.70	8 (S-12)	Radiator repairs
7/25/2023 10:32	7/25/2023 11:04	0.53	8 (S-12)	Detonation
7/25/2023 11:06	7/25/2023 12:10	1.07	8 (S-12)	Detonation
7/27/2023 5:08	7/27/2023 5:34	0.43	8 (S-12)	Detonation
7/28/2023 13:02	7/28/2023 13:12	0.17	8 (S-12)	Detonation
2/1/2023 0:00	8/1/2023 0:00	4344.00	9 (S-13)	Out of service pending overhaul
2/1/2023 0:00	8/1/2023 0:00	4344.00	10 (S-14)	Long-term standby
TOTAL DOWNTIME ¹	-	217.47		

¹Downtime is calculated when all engines (1, 2, 3, 4, 5, 6, 7, 8, 9, and 10) are offline concurrently.

Shutdown Date/Time Startup Date/Time	Duration (Hours)	Engine(s)	Reason for Downtime
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^{*}The engine was offline at the end and/or beginning of the reporting period, therefore downtime is calculated as of February 1, 2023 at 0:00 and August 1, 2023 at 0:00, respectively.



Republic Services of Sonoma County, Inc. BAAQMD Plant # 22987

Compliance Emissions Test Report #23011

Enclosed Landfill Gas Flare (A-4)

Located at:
Central Landfill
500 Mecham Road
Petaluma, CA 94952

Prepared for: Republic Services of Sonoma County, Inc.

500 Mecham Road Petaluma, CA 94952

Attn: Derek Cheney
DCheney@republicservices.com

For Submittal to:

Bay Area Air Quality Management District

375 Beale Street #600 San Francisco, CA 94105

Attn: Marco Hernandez and Gloria Espena mhernandez@baaqmd.gov / gespena@baaqmd.gov

Testing Performed on: January 12, 2023

Final Report Submitted on: March 6, 2023

Performed and Reported by:
Blue Sky Environmental, Inc.
2273 Lobert Street
Castro Valley, CA 94546
bluesky@blueskyenvironmental.com
Office (510) 525-1261 / Mobile (810) 923-3181



Blue Sky Environmental, Inc. 2273 Lobert Street Castro Valley, CA 94546

Office (510) 525-1261 Cell (810) 923-3181 bluesky@blueskyenvironmental.com

March 6, 2023

Republic Services of Sonoma County, Inc 500 Mecham Road Petaluma, CA 94952

Attn.: Derek Cheney

<u>Subject:</u> Source emissions test report for Flare A-4, located at the Central Landfill in Petaluma, California to determine compliance with condition 4044 of Bay Area Air Quality Management District (BAAQMD) permit to operate A2254 for Facility 22987.

Flare A-4 – 91.26 MMBtu/hr John Zink ZTOF enclosed landfill gas-fired flare

Test Date: Testing was conducted on January 12, 2023.

<u>Sampling Location</u>: Sampling was conducted at the exhaust stack of the enclosed flare through ports that were accessible using scissor-lift. Sampling port locations met minimum EPA Method 1 criteria of two stack diameters downstream from the nearest disturbance and 0.5 stack diameters upstream from the nearest disturbance or exhaust.

<u>Sampling Personnel:</u> Testing was performed by Jeramie Richardson and Timothy Eandi of Blue Sky Environmental, Inc. Matt Beat and Derek Cheney of Republic Services were on-site to coordinate flare operations.

<u>Observing Personnel</u>: BAAQMD was notified of the scheduled source test in a source test protocol submitted on January 4, 2023 (NST-8035). No agency observers from the district were present during testing.

Process Description: Sonoma County Central Landfill is an active multi-material landfill with a gas collection system abated by an industrial landfill gas flare (A-4). The facility operates ten Caterpillar Model G3516 lean burn IC engines that produce power from the waste landfill gas generated at the site. Each of the 1,138 hp reciprocating engines operates with an 800 kW genset.

The 91.26 MMBtu/hr flare (A-4) is used as necessary to combust excess gas when the flow of landfill gas exceeds the capacity of the IC engines in service. The landfill gas flow rate and flare operating temperature are continuously recorded on a Yokogawa system.

Test Program: This source test was conducted on the site's landfill gas flare to evaluate emissions and determine compliance with BAAQMD permit to operate A2254 for Facility 22987.

Three consecutive 30-minute gaseous emissions tests were performed for oxides of nitrogen (NO_X), carbon monoxide (CO), carbon dioxide (CO₂), oxygen (O₂), methane (CH₄) and non-methane organic compounds (NMOC) at the exhaust stack of the flare.



<u>Instrumentation</u>: The following continuous emissions analyzers were used:

Instrument	Analyte	Principle	
Servomex Model 1400	O_2	Paramagnetic	
Servomex Model 1400	CO ₂	Infrared (IR)	
TECO Model 42C	NO_X	Chemiluminescence	
TECO Model 48C	СО	Gas Filter Correlation/IR	
TECO Model 55C	CH ₄ /NMOC	Flame Ionization (FID)	

<u>Test Results</u>: The compliance summary is presented below. Detailed source test emission results including the full list of AP42 2.4-1 toxic air contaminants in fuel are provided in Tables 1 and 2. The flare met all compliance criteria.

Emission Parameter	Average Results (Flare A-4)	Permit Limits	Compliance Status
Total Reduced Sulfur (TRS), ppmvd in LFG	104	300	In Compliance
NO _x , lb/MMBtu	0.0287	0.05	In Compliance
CO, lb/MMBtu	0.0061	0.20	In Compliance
NMOC, ppmvd @ 3% O ₂	<1.7	30	In Compliance
NMOC Destruction Efficiency, %	>99.46%	>98%	In Compliance
CH ₄ Destruction Efficiency, %	>99.98%	>99%	In Compliance
THC Destruction Efficiency, %	>99.98%	>99%	In Compliance

The appendices are organized as follows:

<u>Calculations</u>

Calculations performed using the continuous emissions monitoring (CEM) data and flow rate calculations.

<u>Laboratory Reports</u>

Laboratory reports and chain-of-custody documents.

Field Data Sheets

CEMS data transcribed from strip charts and other sampling data records.

Process Information

Relevant and available facility process operating documentation.

Calibration Gas Certificates

Certificates for the calibration gas standards.

Stack Diagram

Sketch or photographs of the sampling location and stack configuration.

Sample System Diagram

Schematic of the sampling system configuration.

TABLE #1

Sonoma-Central Landfill Flare (A-4) 1,650°F

Parameter	Run 1	Run 2	Run 3	Average Results	Permit Limits
Test Date	1/12/23	1/12/23	1/12/23		
Test Time	1205-1307	1325-1412	1451-1538		
Standard Temperature, °F	70	70	70		
Fuel:					
Flare Temperature, °F	1,654	1,643	1,652	1,650	
Fuel Flow Rate, DSCFM	856	863	853	857	
Fuel Heat Input, MMBtu/hr	26.8	26.8	27.1	26.9	
Inlet TRS, ppmvd (ASTM D5504)	132	70.3	111	104	300
Stack Gas:					
Exhaust Flow Rate, DSCFM (EPA Method 19)	7,523	7,548	7,521	7,530	
Oxygen (O ₂), % volume dry	9.2	9.2	9.0	9.1	
Carbon Dioxide (CO ₂), % volume dry	3.5	3.6	3.7	3.6	
CO ₂ , lb/hr	1,822	1,836	1,913	1,857	
Water Vapor (H ₂ O), % volume	8.3	8.8	10.5	9.2	
SO ₂ , ppmvd (calculated)	15.0	8.0	12.6	11.9	
NO _x Emissions (reported as NO ₂):	L			ı l	
NOx, ppmvd	14.2	14.3	14.6	14.3	
NOx, ppmvd @ 15% O ₂	7.15	7.17	7.23	7.18	
NOx, lb/hr	0.764	0.768	0.782	0.771	
NOx, lb/day	18.3	18.4	18.8	18.5	
NOx, lb/MMBtu	0.0285	0.0286	0.0288	0.0287	0.05
CO Emissions:	I		I .	<u>I</u>	
CO, ppmvd	5.4	5.3	4.4	5.0	
CO, ppmvd @ 15% O ₂	2.7	2.7	2.2	2.5	
CO, lb/hr	0.18	0.17	0.14	0.16	
CO, lb/day	4.2	4.2	3.5	3.9	
CO, lb/MMBtu	0.0066	0.0065	0.0053	0.0061	0.20
THC Emissions (reported as CH ₄):					
THC, ppmv wet (EPA Method 25A)	<11.0	<11.0	<11.0	<11.0	
THC, ppmvd	<12.0	<12.1	<12.3	<12.1	
THC, lb/hr	< 0.224	< 0.226	< 0.229	< 0.226	
Methane (CH ₄) Emissions:	V.22 1		V.22	.0.220	
CH ₄ , ppmv wet (EPA Method 25A)	<10.0	<10.0	<10.0	<10.0	
CH ₄ , ppmvd	<10.9	<11.0	<11.2	<11.0	
CH ₄ , lb/hr	<0.204	<0.205	<0.209	<0.206	
NMOC Emissions (reported as CH ₄):	.0.201	.0.203	.0.209	.0.200	
NMOC, ppmv wet (EPA Method 25A)	<1.0	<1.0	<1.0	<1.0	
NMOC, ppmvd	<1.1	<1.1	<1.1	<1.1	
NMOC, ppmvd @ 3% O ₂	<1.7	<1.7	<1.7	<1.7	30*
NMOC, lb/hr	<0.020	<0.021	<0.021	<0.021	
Inlet Hydrocarbons (reported as CH ₄):	50.020	50.021	50.021	50.021	
Inlet NMOC, ppmvd (EPA Method 25C)	1 502	1 500	1 402	1 550	
Inlet NMOC, lb/hr	1,583	1,599	1,492	1,558	
NMOC Destruction Efficiency, %	3.36	3.42	3.16	3.82	>98%*
	>99.39%	>99.40%	>99.34%	>99.46%	- 20/0
Inlet CH ₄ , ppmvd (EPA Method 25C)	523,000	520,000	532,000	525,000	
Inlet CH ₄ , lb/hr	1,111	1,113	1,127	1,287	> 000/
CH ₄ Destruction Efficiency, %	>99.98%	>99.98%	>99.98%	>99.98%	>99%
Inlet THC, ppmvd	524,583	521,599	533,492	526,558	
Inlet THC, lb/hr	1,115	1,117	1,130	1,291	
THC Destruction Efficiency, %	>99.98%	>99.98%	>99.98%	>99.98%	>99%

^{*} NMOC permit limits are 30 ppm @ 3% O₂ or DE >98%

WHERE,

ppmvd = parts per million concentration by volume expressed on a dry gas basis

lb/hr = pound per hour emission rate

Tstd. = standard temperature (${}^{\circ}R = {}^{\circ}F + 460$)

MW = molecular weight

DSCFM = dry standard cubic foot per minute

 NO_X = oxides of nitrogen, reported as NO_2 (MW = 46)

CO = carbon monoxide (MW = 28)

 CH_4 = methane (MW = 16)

THC = total hydrocarbons reported as CH₄ (MW = 16)

NMOC = non-methane organic compounds reported as CH₄ (MW = 16)

CALCULATIONS,

ppm @ $15\% O_2 = ppm \cdot 5.9 / (20.9 - \%O_2)$

ppm @ 3% O_2 = ppm · 17.9 / (20.9 - % O_2)

lb/hr = ppm \cdot 8.223 E-05 \cdot DSCFM \cdot MW / Tstd. °R

 $lb/day = lb/hr \cdot 24$

 $lb/MMBtu = Fd \cdot MW \cdot ppm \cdot 2.59E-9 \cdot 20.9/(20.9 - \%O_2)$

 $Destruction \ Efficiency = (inlet, lb/hr-outlet, lb/hr) \ / \ inlet, lb/hr$

 SO_2 , ppm calculated = Inlet TRS, ppm \cdot Inlet Fuel, DSCFM / Exhaust, DSCFM

<Value = 2% Value of Analyzer Range

TABLE #2

Landfill Gas Toxic Air Contaminants in LFG (AP42 Table 2.4-1)

Sonoma-Central Landfill Flare (A-4)

Analyte	Method	Units	Average Results	Permit Limits
1,1,1-Trichloroethane	EPA TO-15	ppb	<40.0	
1,1,2,2-Tetrachloroethane	EPA TO-15	ppb	<40.0	
1,1-Dichloroethane (Ethylidene Dichloride)	EPA TO-15	ppb	48.0	
1,1-Dichloroethene (1,1-Dichloroethylene)	EPA TO-15	ppb	<40.0	
1,2-Dichloroethane (Ethylene Dichloride)	EPA TO-15	ppb	386	
1,2-Dichloropropane	EPA TO-15	ppb	47.2	
2-Propanol (Isopropyl Alcohol, IPA)	EPA TO-15	ppb	7,720	
Acrylonitrile	EPA TO-15	ppb	<40.0	
Bromodichloromethane	EPA TO-15	ppb	<40.0	
Butane	EPA 18/ASTM 1945	ppm	8.8	
Carbon Disulfide	EPA TO-15	ppb	< 0.092	
Carbon Monoxide	EPA 3C/ASTM 1945	%	<0.2	
Carbon Tetrachloride	EPA TO-15	ppb	<40.0	
Carbonyl sulfide (COS)	ASTM D-5504	ppm	< 0.078	
Chlorobenzene	EPA TO-15	ppb	<40.0	
Chlorodifluoromethane	EPA TO-15	ppb	150	
Chloroethane	EPA TO-15	ppb	150	
Chloroform	EPA TO-15	ppb	<40.0	
Chloromethane	EPA TO-15	ppb	<40.0	
1,3-Dichlorobenzene	EPA TO-15	ppb	<40.0	
1,4-Dichlorobenzene	EPA TO-15	ppb	281	
1,2-Dichlorobenzene	EPA TO-15	ppb	<40.0	
Dichlorodifluoromethane	EPA TO-15	ppb	98.4	
Dichlorofluoromethane	EPA TO-15	ppb	129	
Dichloromethane (Methylene Chloride)	EPA TO-15	ppb	242	20,000
Dimethyl Sulfide	ASTM D-5504	ppm	2.64	20,000
Ethane	EPA 18/ASTM 1945	ppm	12.1	
Ethanol	EPA TO-15	ppb	33,200	
Ethyl Mercaptan	ASTM D-5504	ppm	<0.121	
Ethyl Benzene	EPA TO-15	ppb	1,490	
1,2 Dibromoethane (Ethylene Dibromide)	EPA TO-15	ppb	<40.0	
Trichlorofluoromethane	EPA TO-15	ppb	<40.0	
Hexane	EPA TO-15	ppb	534	
Hydrogen sulfide	ASTM D-5504	ppm	99.0	300
2-Butanone (MEK)	EPA TO-15	ppb	9,830	300
Methyl isoButyl Ketone (MiBK)	EPA TO-15	ppb	<40.0	
Pentane (MDT)	EPA 18/ASTM 1945	ppm	23.7	
Tetrachloroethylene (Perchloroethylene)	EPA TO-15	pph	153	3,000
Propane	EPA 18/ASTM 1945	ррт	29.9	3,000
trans-1,2-Dichloroethene (t-1,2-Dichloroethylene)	EPA TO-15	pph	<40.0	
Trichloroethylene (Trichloroethene)	EPA TO-15	ppb	82.4	3,000
Vinyl Chloride	EPA TO-15	ppb	110	2,500
m,p-Xylene	EPA TO-15	ppb	3,870	2,500
o-Xylene	EPA TO-15	ppb	1,350	
Benzene	EPA TO-15	ppb	883	2,500
Chlorobenzene	EPA TO-15		<40.0	2,500
Toluene	EPA TO-15 EPA TO-15	ppb ppb	4,260	

Appendix E – Surface Emission and GCCS Component Leak Monitoring Results

SCS FIELD SERVICES

February 27, 2023 File No. 07221077.00

Mr. Derek Cheney Republic Services – Sonoma Central Landfill 500 Mecham Road Petaluma, California 95492

Subject:

Sonoma Central Landfill - Petaluma, California

Landfill Methane Rule (LMR) and New Source Performance Standards (NSPS)

Surface Emissions Monitoring for Fourth Quarter 2022.

Dear Mr. Cheney:

SCS Field Services (SCS) is pleased to provide the Republic Services, with the enclosed report summarizing the surface emissions monitoring services provided at the Sonoma Central Landfill (Site) during the fourth quarter 2022. This report includes the results of surface scan, component emissions and blower/flare station emissions monitoring for the Site for this monitoring period.

SCS appreciates the opportunity to be of assistance to Republic Services on this project. As you review the enclosed information, please contact Michael Flanagan at (510) 363-7796 or Whitney Stackhouse at (209) 338-7990 if you have any questions or comments.

Sincerely,

Whitney Stackhouse Project Manager SCS Field Services Michael Flanagan Project Manager SCS Field Services

Encl.

Sean Bass, SCS Field Services Art Jones, SCS Field Services

Sonoma Central Landfill

Landfill Methane Rule (LMR) and New Source Performance Standards (NSPS) Surface Emissions Monitoring

Fourth Quarter 2022

Presented to:



Mr. Derek Cheney Republic Services – Sonoma Central 500 Mecham Road Petaluma, California 94952

SCS FIELD SERVICES

File No. 07221078.00 Task 01 | February 27, 2023

SCS FIELD SERVICES 4730 Enterprise Way Suite A Modesto, CA 95356

Sonoma Central Landfill

Landfill Methane Rule (LMR) and New Source Performance Standards (NSPS) Surface Emissions Monitoring Fourth Quarter 2022

INTRODUCTION

This letter provides results of the October 5, 6, 7, 12, 14 and November 4, 2022, LMR and NSPS landfill surface emissions monitoring (SEM) performed by SCS Field Services (SCS) at the subject site. All work was performed in accordance with our approved Work Scope dated December 23, 2020, and the LMR requirements.

The Sonoma Central Landfill is an active organic refuse disposal site. By way of background, organic materials buried in a landfill decompose anaerobically (in the absence of oxygen) producing a combustible gas which contains approximately 50 to 60 percent methane gas, 40 to 50 percent carbon dioxide, and trace amount of various other gases, some of which are odorous. The Sonoma Central property contains a system to control the combustible gases generated in the landfill.

SUMMARY AND CONCLUSIONS

As stipulated in LMR, if uncorrectable exceedances within the 10-day limitation are detected or emissions are discovered during an inspection by Regulatory Agencies, the landfill must perform monitoring on a 25-foot pathway on a quarterly basis for active disposal sites. Upon completion of four consecutive SEM events without an uncorrectable exceedance of the 25 ppmv or 500 ppmv standards, other than non-repeatable momentary readings, the landfill may perform the monitoring on a 100-foot spacing on an annual basis for closed landfills or quarterly for active disposal sites. Therefore, based on the previous monitoring events, in which exceedances were observed, the monitoring at the Sonoma Central Landfill was performed on 25-foot pathways in accordance with the LMR.

On October 5, 6, 7, 12, 14 and November 4, 2022, SCS performed fourth quarter 2022 SEM as required by the Bay Area Air Quality Management District (BAAQMD). Instantaneous surface emissions monitoring results indicated that twenty (20) location exceeded the 500 ppmv maximum concentration during the initial monitoring event (Table 1 in Attachment 3). The required first 10-day (LMR/NSPS) and 30-day (NSPS) follow-up monitoring indicated that the location had returned to below regulatory compliance limits following system adjustments and remediation (well field adjustments and installation of new bentonite plugs) by SCS personnel. Based on these monitoring results no additional follow up testing was required.

Also, during the instantaneous monitoring event, SCS performed concurrent integrated monitoring of the landfill surface. As required by the LMR, the landfill was divided into 50,000 square foot areas. The Sonoma Central Landfill surface area was therefore divided into 163 grids, as shown on Figure 1 in Attachment 1. During this monitoring event, several grids were not monitored, in accordance with

the regulations, due to ongoing active landfilling activities, unsafe conditions, or there was no waste in place prior to the monitoring event.

During the monitoring event, there were no grid areas observed to exceed the 25 ppmv LMR integrated average threshold (Table 2 in Attachment 4). Based on these monitoring results, no follow up monitoring is required at this time. These results are discussed in a subsequent section of this report.

In addition, quarterly monitoring of the pressurized piping or components of the Gas Collection and Control System (GCCS) that are under positive pressure must be performed. Results of the testing of the landfill gas (LFG) Blower Flare Station (BFS) pressurized piping and components indicated that all test locations were in compliance with the 500 ppmv requirement.

Further, as required under the LMR, any location on the landfill that has an observed instantaneous methane concentration above 200 ppmv, must be stake-marked and Global Positioning System (GPS) located on a site figure. During this reporting period, fifteen (15) locations were observed to exceed the 200 ppmv, reporting threshold, in addition to the location noted above. When these readings are observed, the locations are reported to site personnel for tracking and/or remediation and will be reported in the next submittal of the annual LMR report. Please see the figure in Attachment 3 for location details.

Finally, to help prevent potential future exceedances, SCS recommends that the landfill surface be routinely inspected and any observed surface erosion be routinely repaired.

SURFACE EMISSIONS MONITORING

On October 5, 6, 7, 12, 14 and November 4, 2022, the instantaneous and integrated SEM was performed over the surface of the subject site. The intent of the monitoring was to identify any specific locations or areas of the landfill surface with organic compound concentrations exceeding the LMR threshold limit values of 500 ppmv measured as methane for instantaneous monitoring, or an average methane concentration of 25 ppmv for the integrated monitoring in the 50,000 square foot grids as required under the LMR. During this event, SCS performed the monitoring on a 25-foot pathway in accordance with the rules as required.

EMISSIONS TESTING INSTRUMENTATION/CALIBRATION

Instruments used to perform the landfill surface emission testing consisted of the following:

- Thermo Scientific TVA 2020 portable Flame Ionization Detector (FID). This instrument
 measures methane in air over a range of 1 to 50,000 ppmv. The TVA 2020 meets the State
 of California Air Resources Board (CARB) requirements for combined instantaneous and
 integrated monitoring and was calibrated in accordance with United States Environmental
 Protection Agency (US EPA) Method 21.
- Weather Anemometer with continuous recorder for meteorological conditions in accordance with the LMR.

Instrument calibration logs and weather information are shown in Attachments 5 and 6.

SURFACE EMISSIONS MONITORING PROCEDURES

Surface emissions monitoring was conducted in accordance with the LMR and NSPS requirements. Monitoring was performed with the FID inlet held within 3-inches of the landfill surface while a technician walked a grid in parallel paths not more than 25 -feet apart over the surface of the landfill. Cracks, holes and other cover penetrations in the surface were also tested. Surface emissions readings were monitored continuously and recorded every 5 seconds. Any areas in exceedance of the 200 or 500 ppmv standards (reporting and compliance levels, respectively) would be GPS tagged and stake-marked for on-site personnel to perform remediation or repairs.

The integrated average is based on the readings stored on the instrument, which are recorded every 5 seconds. The readings are then downloaded and the averages are calculated for each grid using SCS eTools®. All readings are maintained in this secure SCS Database. The readings are not provided in the report due to the volume of readings, but can be furnished upon request.

Recorded wind speed results are shown in Attachment 6. Wind speed averages were observed to remain below the alternative threshold of 10 miles per hour, and no instantaneous speeds exceeded 20 miles per hour. No rainfall had occurred within 72 hours of the monitoring events. Therefore, site meteorological conditions were within the alternatives of the LMR requirements on the above mentioned dates.

TESTING RESULTS

During this event, SCS performed the monitoring on a 25-foot pathway in accordance with the rule as required under the LMR and NSPS. The intent of the monitoring was to identify any specific locations or areas of the landfill surface with organic compound concentrations exceeding the LMR or NSPS threshold limit values of 500 ppmv measured as methane for instantaneous monitoring, or an average methane concentration of 25 ppmv for the integrated monitoring (LMR).

On October 5, 6, 7, 12, 14 and November 4, 2022, SCS performed fourth quarter 2022 instantaneous emissions monitoring testing as required by the BAAQMD. During this monitoring, surface emissions results indicated that twenty (20) location exceeded the 500 ppmv maximum concentration. The required first 10-day (LMR/NSPS) and 30-day (NSPS) follow-up monitoring performed on October 14 and November 4, 2022, respectively, indicated that the location had returned to compliance following system adjustments and remediation (wellfield adjustment and borehole repairs using bentonite and soil) performed by SCS personnel. Based on these monitoring results no additional follow up testing was required. Results of the monitoring are shown in Attachments 2 and 3 (Table 1).

Additionally, calculated integrated grid monitoring indicated no areas exceeded the 25-ppmv requirement during this monitoring event. Based on these monitoring results no follow up testing was required. Results of the monitoring are shown in Attachment 4 (Table 2). Calibration logs for the monitoring equipment are provided in Attachment 5.

During this monitoring event, several grids were not monitored, in accordance with the LMR, due to active landfilling activities, unsafe conditions or no waste in place. SCS will continue to monitor all accessible locations during the first quarter 2023.

PRESSURIZED PIPE AND COMPONENT LEAK MONITORING

On October 5, and 12, 2022, quarterly leak monitoring was performed in accordance with the LMR. SCS performed LFG pressurized pipe and component leak monitoring at the BFS and PGF Facility. Monitoring was performed with the detector inlet held one-half of an inch from pressurized pipe and associated components. One location exceeded the 500 ppmv threshold was observed during our monitoring event at the Power Facility. The maximum reading, which was 2,300 ppmv, was above the required exceedance thresholds (see Table 1 for component results). SCS and site personnel performed system adjustments and repair work, and the subsequent re-monitoring indicated the locations with the exceedances had returned to compliance. Therefore, based on these results all pressurized piping and components located at the LFG Power Facility were in compliance at the time of our rechecks and 7-day confirmation testing.

PROJECT SCHEDULE

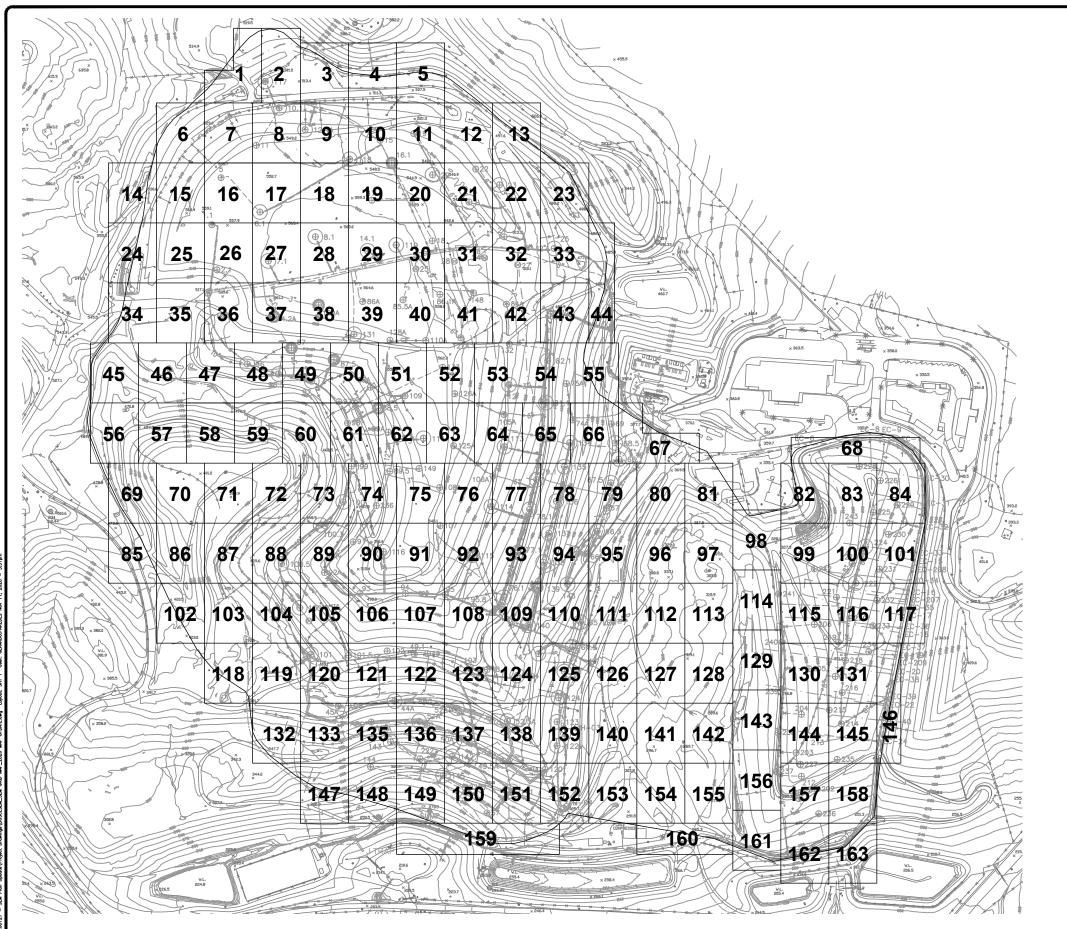
According to the LMR and NSPS, surface emissions monitoring at active landfills is required to be performed on a quarterly basis. Therefore, in accordance with our approved Work Scope, the first quarter 2023 (January through March) surface emissions testing event is scheduled to be performed by the end of March 2023 in accordance with the Republic SOP unless an alternative timeline is requested by site personnel.

STANDARD PROVISIONS

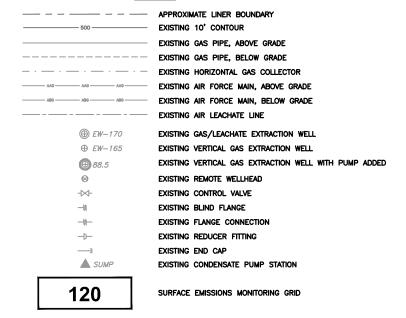
This report addresses conditions of the subject site during the testing dates only. Accordingly, we assume no responsibility for any changes that may occur subsequent to our testing which could affect the surface emissions at the subject site or adjacent properties.

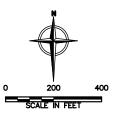
Attachment 1

Landfill Grid



LEGEND





NOTES:

1. THE 2020 TOPOGRAPHIC MAP WAS PREPARED BY COOPER AERIAL SURVEYS CO. DATE OF PHOTOGRAPHY: JANUARY 31, 2020. HORIZONTAL DATUM: NAD27, ZONE 2 VERTICAL DATUM: NGVD29.

2. THE 2018 GCCS AS-BUILT GCCS IMPROVEMENTS PROVIDED BY REPUBLIC SERVICES INC. ON SEPTEMBER 20, 2018.

TETRA TECH DESCRIPTION DWN BY DES BY CHK BY APP B CHECKED BY ____

SONOMA COUNTY CENTRAL LANDFILL PETALUMA, CALIFORNIA

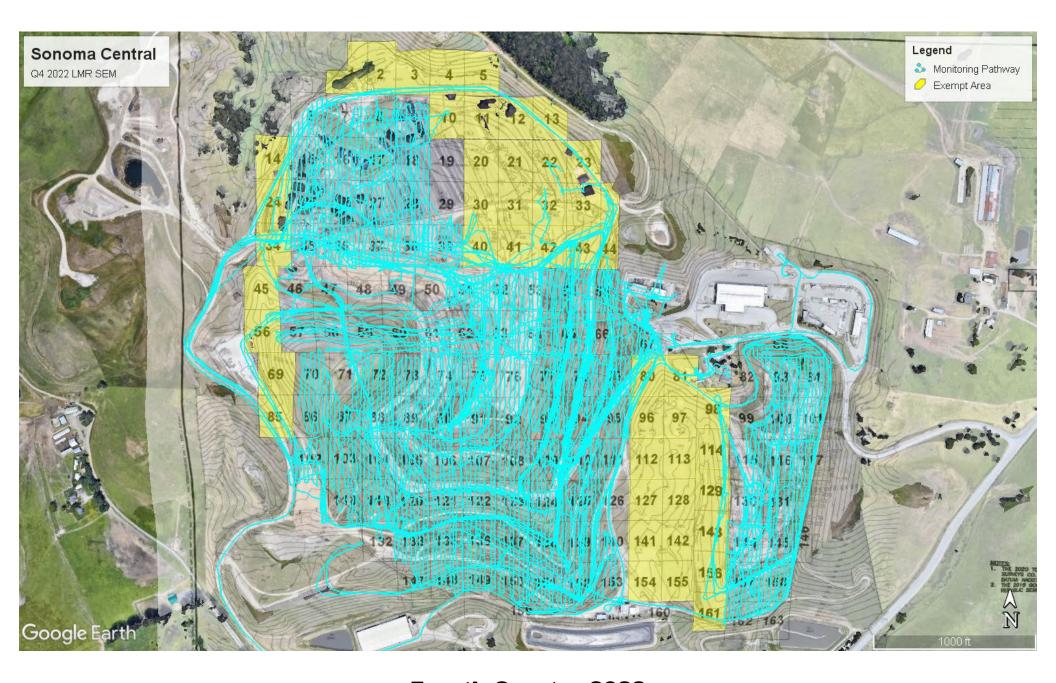
> SURFACE EMISSIONS MONITORING **GRID MAP**

SHEET NO. PROJECT NO.

197-200019

Attachment 2

Surface Pathway



Fourth Quarter 2022

LMR Surface Emissions Monitoring Pathway

Sonoma Central Landfill, Petaluma, California

Attachment 3

Instantaneous and Component Emissions Monitoring Results

Table 1. Instantaneous Surface Emissions Monitoring Results Sonoma Central Landfill, Sonoma, California

Instantaneous Data Report for October 5, 6, 7, 12, 14 and November 4, 2022

Highest Component Readings

Location	Initial Monitoring (ppmv)	Initial Monitoring (ppmv)	Initial Monitoring (ppmv)	First 10-Day Follow Up Monitoring (ppmv)	30-Day Follow Up Monitoring (ppmv)	Latitude	Longitude
	10/5/2022	10/6/2022	10/7/2022	10/14/2022	11/4/2022	20 200400	122 752600
SCV092-A	645	-	-	42.8	51.9	38.299180	-122.752600
SCV044-A	60,000	-	-	312	299	38.297730	-122.751640
SCEW2113	5,478	-	-	34.2	455	38.299038	-122.746135
SCEW2115	1,124	-	-	10.7	266	38.298226	-122.746080
SCEW2116	603	-	-	12.6	351	38.297763	-122.746191
SCV231-0	3,276	-	-	43.2	386	38.299280	-122.744580
SCV128-0	571	-	-	71.4	172	38.301940	-122.751690
SCV083-A	-	1,000	-	36.2	399	38.302187	-122.749402
SURFACE READING GRID 106 RR	-	742	-	56.8	20.6	38.298594	-122.751622
SURFACE READING GRID 121 RR	-	586	-	215	67.3	38.297972	-122.751573
SURFACE READING GRID 121 RR2	-	922	-	103	32.6	38.297982	-122.751696
SURFACE READING GRID 103 BO	-	2,093	-	59.7	235	38.299074	-122.754158

Table 1. Instantaneous Surface Emissions Monitoring Results Sonoma Central Landfill, Sonoma, California

Location	Initial Monitoring (ppmv) 10/5/2022	Initial Monitoring (ppmv) 10/6/2022	Initial Monitoring (ppmv) 10/7/2022	First 10-Day Follow Up Monitoring (ppmv) 10/14/2022	30-Day Follow Up Monitoring (ppmv)	Latitude	Longitude
2210A GRID	10/3/2022	10/0/2022	10/7/2022	10/14/2022	11/4/2022		
138 RR	-	-	536	38.3	49.6	38.297448	-122.749942
REEBAR						20 200242	122 754000
GRID 122 RR	-	-	512	264	22.6	38.298243	-122.751089
REEBAR							
GRID 122	-	-	1,611	227	21.5	38.298236	-122.751171
RR1							
REEBAR							
GRID 122	-	-	758	214	21.3	38.298219	-122.751346
RR2							
REEBAR							
GRID 122	-	-	683	143	3.2	38.298229	-122.751463
RR4							
REEBAR			4 444	220	2.5	20 20020	400 754606
GRID 122	-	-	1,411	339	3.5	38.298203	-122.751626
RR5							
REEBAR	_	_	1,719	425	352	38.298267	-122.750367
GRID 123 RR1			1,713	423	332	38.298207	-122./3030/
REEBAR							
GRID 123	-	_	536	69.3	47.8	38.298177	-122.750310
RR2							
SCV220-0	346	-	-	-	-	38.298720	-122.745010
SCV230-0	251	-	-	-	-	38.299670	-122.744430
SCV232-0	263	-	-	-	-	38.298920	-122.744620
SCV233-0	294	-	-	-	-	38.298620	-122.744660
RISER G100 EP	250	-	-	-	-	38.297448	-122.749942
RISER G115 EP	350	-	-	-	-	38.299269	-122.754532

Table 1. Instantaneous Surface Emissions Monitoring Results Sonoma Central Landfill, Sonoma, California

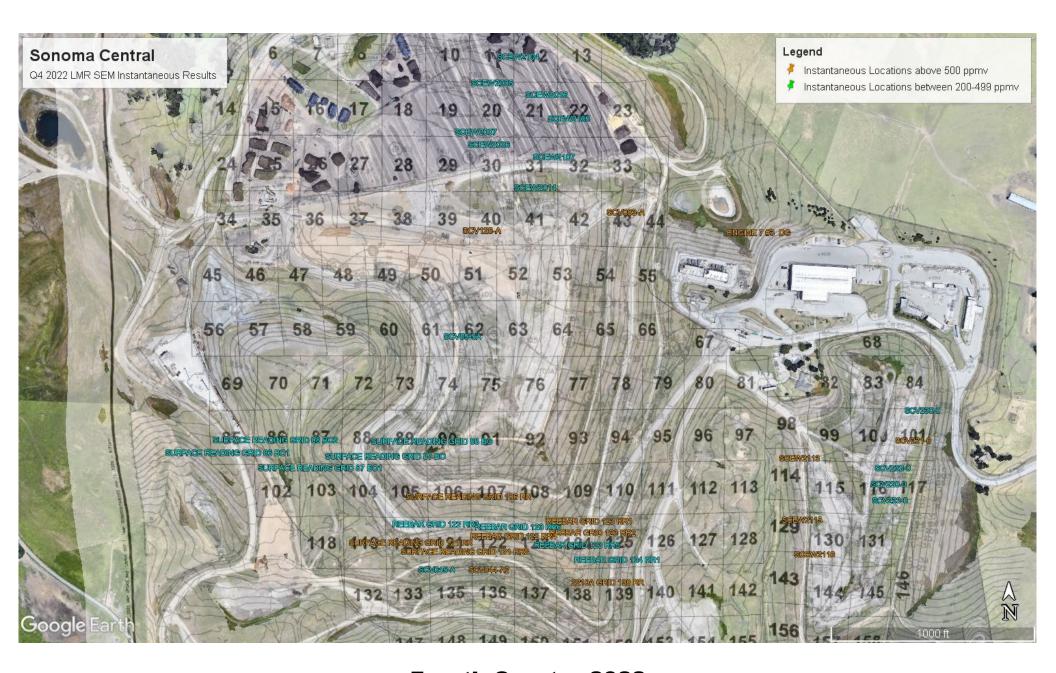
Location	Initial Monitoring (ppmv) 10/5/2022	Initial Monitoring (ppmv) 10/6/2022	Initial Monitoring (ppmv) 10/7/2022	First 10-Day Follow Up Monitoring (ppmv) 10/14/2022	30-Day Follow Up Monitoring (ppmv)	Latitude	Longitude
SURFACE							
READING		225				38.299269	-122.754532
GRID 86	-	325	-	-	-		
BO1							
SURFACE		200				20 200402	422 752057
READING	-	200	-	-	-	38.299102	-122.753957
GRID 87 BO							
SURFACE							
READING		233				38.299010	-122.754048
GRID 87	-	233	-	-	-		
BO1							
SURFACE		365				20 200201	122 752100
READING	-	303	-	-	-	38.299301	-122.753190
GRID 88 BO							
SURFACE							
READING		201				38.299315	-122.753732
GRID 88	-	201	-	-	-		
BO2							
REEBAR	_	_	203	_	_	38.298229	-122.751463
GRID 122	_	_	203	_	_	30.290229	-122./31403
RR3							
REEBAR	_	_	200	_	_	38.298073	-122.750563
GRID 123			200			30.230073	-122./30303
RR5							
REEBAR	_	_	200	_	_	38.298191	-122.750822
GRID 123			200			30.290191	122.730022
RR6							
REEBAR	-	-	200	-	-	38.297887	-122.749903
GRID 124 RR							

Table 1. Instantaneous Surface Emissions Monitoring Results Sonoma Central Landfill, Sonoma, California

Highest Pressurized Pipe Readings

Location	Initial Monitoring (ppmv) 10/5/2022	7-Day Follow Up Monitoring (ppmv)	
Flare	83.60	N/A	
PGF Engine 7 #3	2,300	20.3	

No additional exceedances of the 500 ppm threshold were observed during the monitoring performed during the fourth quarter 2022.



Fourth Quarter 2022
Initial Emissions Monitoring Locations Greater Than 200 ppm and 500 ppmv
Sonoma Central Landfill, Petaluma, California

Attachment 4

Integrated Monitoring Results

Point Name	Record Date	FID Concentration (ppm)	Comments
SC001			Exempt
SC002			Exempt
SC003			Exempt
SC004			Exempt
SC005			Exempt
SC006	10/6/2022	8.21	
SC007	10/6/2022	5.67	
SC008	10/6/2022	8.44	
SC009	10/6/2022	13.86	
SC010			Exempt
SC011			Exempt
SC012			Exempt
SC013			Exempt
SC014			Exempt
SC015	10/6/2022	10.95	
SC016	10/6/2022	3.21	
SC017	10/6/2022	4.17	
SC018	10/6/2022	9.50	
SC019	10/6/2022	4.58	
SC020			Exempt
SC021			Exempt
SC022			Exempt
SC023			Exempt
SC024			Exempt
SC025	10/6/2022	6.50	
SC026	10/6/2022	2.41	
SC027	10/6/2022	4.41	
SC028	10/6/2022	4.14	
SC029			Exempt
SC030			Exempt
SC031			Exempt
SC032			Exempt
SC033			Exempt
SC034			Exempt
SC035	10/6/2022	6.12	
SC036	10/6/2022	7.78	
SC037	10/6/2022	7.82	
SC038	10/6/2022	7.04	
SC039	10/6/2022	2.04	
SC040			Exempt
SC041			Exempt
SC042			Exempt
SC043			Exempt

Point Name	Record Date	FID Concentration (ppm)	Comments
SC044			Exempt
SC045			Exempt
SC046	10/6/2022	7.56	
SC047	10/6/2022	9.32	
SC048	10/6/2022	12.19	
SC049	10/6/2022	13.17	
SC050	10/6/2022	11.64	
SC051	10/6/2022	8.18	
SC052	10/7/2022	10.88	
SC053	10/6/2022	6.62	
SC054	10/6/2022	5.13	
SC055	10/6/2022	3.57	
SC056			Exempt
SC057	10/6/2022	3.58	
SC058	10/6/2022	6.19	
SC059	10/6/2022	6.81	
SC060	10/6/2022	6.18	
SC061	10/6/2022	8.18	
SC062	10/6/2022	11.79	
SC063	10/7/2022	6.51	
SC064	10/6/2022	5.49	
SC065	10/7/2022	4.09	
SC066	10/7/2022	5.50	
SC067	10/7/2022	2.31	
SC068	10/5/2022	1.78	
SC069			Exempt
SC070	10/6/2022	3.49	
SC071	10/6/2022	9.77	
SC072	10/6/2022	8.92	
SC073	10/6/2022	4.76	
SC074	10/6/2022	10.69	
SC075	10/6/2022	5.09	
SC076	10/6/2022	3.05	
SC077	10/6/2022	3.29	
SC078	10/6/2022	2.46	
SC079	10/6/2022	2.47	
SC080			Exempt
SC081			Exempt
SC082	10/5/2022	10.88	
SC083	10/5/2022	3.51	
SC084	10/5/2022	1.14	
SC085			Exempt
SC086	10/6/2022	8.33	

30110	T CCTTCT CT L	FID Concentration	luma, Camorma		
Point Name	Record Date	(ppm)	Comments		
SC087	10/6/2022	16.74			
SC088	10/6/2022	11.09			
SC089	10/6/2022	8.35			
SC090	10/6/2022	12.36			
SC091	10/6/2022	5.80			
SC092	10/6/2022	7.38			
SC093	10/6/2022	4.12			
SC094	10/6/2022	2.32			
SC095	10/6/2022	2.98			
SC096			Exempt		
SC097			Exempt		
SC098			Exempt		
SC099	10/5/2022	1.32			
SC100	10/5/2022	6.15			
SC101	10/5/2022	3.44			
SC102	10/6/2022	3.60			
SC103	10/6/2022	12.02			
SC104	10/6/2022	3.62			
SC105	10/6/2022	8.54			
SC106	10/6/2022	12.87			
SC107	10/6/2022	9.99			
SC108	10/6/2022	9.23			
SC109	10/7/2022	3.31			
SC110	10/7/2022	2.39			
SC111	10/7/2022	1.25			
SC112			Exempt		
SC113			Exempt		
SC114			Exempt		
SC115	10/5/2022	1.39			
SC116	10/5/2022	7.81			
SC117	10/5/2022	5.84			
SC118	10/6/2022	8.10			
SC119	10/6/2022	6.43			
SC120	10/6/2022	8.57			
SC121	10/6/2022	20.08			
SC122	10/6/2022	11.86			
SC123	10/6/2022	8.23			
SC124	10/7/2022	8.11			
SC125	10/7/2022	2.77			
SC126	10/7/2022	1.36			
SC127			Exempt		
SC128			Exempt		
SC129			Exempt		

Point Name	Record Date	FID Concentration (ppm)	Comments
SC130	10/5/2022	1.39	
SC131	10/5/2022	8.02	
SC132	10/6/2022	1.31	
SC133	10/6/2022	4.80	
SC134			Exempt
SC135	10/6/2022	1.90	
SC136	10/6/2022	1.22	
SC137	10/6/2022	1.44	
SC138	10/7/2022	6.98	
SC139	10/7/2022	7.27	
SC140	10/7/2022	1.27	
SC141			Exempt
SC142			Exempt
SC143			Exempt
SC144	10/5/2022	2.59	
SC145	10/5/2022	4.39	
SC146	10/5/2022	8.95	
SC147	10/6/2022	2.58	
SC148	10/6/2022	1.72	
SC149	10/6/2022	0.91	
SC150	10/6/2022	1.20	
SC151	10/7/2022	1.40	
SC152	10/7/2022	1.49	
SC153	10/7/2022	1.33	
SC154			Exempt
SC155			Exempt
SC156			Exempt
SC157	10/5/2022	2.47	
SC158	10/7/2022	13.71	
SC159	10/7/2022	1.25	
SC160	10/7/2022	1.17	
SC161			Exempt
SC162	10/5/2022	2.38	
SC163	10/5/2022	2.11	

Attachment 5

Calibration Logs

		CALIBRATION AN	ID PERTINEN	IT DATA	
Date:	10/05/22		Site Name:	Sonoma	
Inspector(s):	Don Gulos	ion	Instrument:	TVA 2020	
WEATHER OF	BSERVATIONS			*	
Wind Speed	d:MPH	Wind Direction:		Barometric Pressure: 29.99	"Hg
A Temperature	- 0	General Weathe Conditions		2	
CALIBRATION	INFORMATION				
Pre-monitoring	Calibration Precision Check				
and calculate th	ne average algebraic difference be less than or equal to 10%	a total of three measurements of the calibration gas value.	reading and the d	zero air and the calibration calibration gas as a percent Cal Gas Concentration;	age. The calibration
		1611			500ppm
Trial 1	Zero Air Reading	Cal Gas Reading	Cal Gas Co	oncCal Gas Reading	Response Time (seconds)
2	0.0	498	-	3	3
3	-0.1	1 214		>	3/
		= 100%-	*	/500 x 100%	
oan Sensitivity:				* 10	
rial 1:			Trial 3:		
	unts Observed for the Span=	121312		s Observed for the Span=	119056
	ters Observed for the Zero=	3888	Counte	rs Observed for the Zero=	3866
ial 2: Cou	ints Observed for the Span=	120663			
Coun	ters Observed for the Zero=	JA 3850			
st Monitoring C	alibration Check				
o Air		Cal Gas			
ading:	 ppm	Reading:	508 p	pm	
CKGROUND C	ONCENTRATIONS CHECKS				
wind Location D	escription:	Grid 17	R	eading: Z-1 p	pm
wnwind Location	n Description:	Flare		eading: 2.3 p	pm
ex	ceeded 20 miles per hour.	oserved to remain below the No rainfall had occurred wit re within the requested alte	hin the previous 2	4 hours of the monitoring	event. Therefore, site

		CALIBRATION A	ND PERTINENT DATA	
Date:	10-5-22 Emmagur		Site Name: Sonoma	
Inspector(s	Emmagnia	[Paz	Instrument: TVA 2020	
WEATHER	OBSERVATIONS		*	* y
Wind Sp	peed:MPH	Wind Direction:	Barometric Pressure:	_ "Hg
Temperat	Air ture:°F	General Weath Conditior	The state of the s	
CALIBRATIO	ON INFORMATION		/	
Pre-monitor	ring Calibration Precision Check			
precision mu	Calibrate the instrument. Make a le the average algebraic difference ist be less than or equal to 10% of the less than be requal to 10% of the less than be required.	te between the instrumen f the calibration gas value	ents by alternating zero air and the calibratio t reading and the calibration gas as a percent c. Cal Gas Concentration	n gas. Record the readings tage. The calibration 500ppm
Trial	Zero Air Reading	Cal Gas Reading	Cal Gas ConcCal Gas Reading	Response Time (seconds
1	0	504	4.	kesponse time (seconds
2	D	502	2	4
3	(.0.)	562	2	4
Span Sensitivit	hv.	= 100% = 99.4	- <u>'2.6</u> /500 x 100%	
Trial 1:		Mala	Trial 3:	. (10
	Counts Observed for the Span=	174376	Counts Observed for the Span=	4560
Co Trial 2:	ounters Observed for the Zero=	4676	Counters Observed for the Zero=	4560
	Counts Observed for the Span= _	176332		
Co	ounters Observed for the Zero=	4616		
Post Monitorin	g Calibration Check			
Zero Air Reading:		Cal Gas Reading:	502 ppm	
BACKGROUND	CONCENTRATIONS CHECKS			
Upwind Location	n Description:	Carid 17	Reading: 2.3	pm
Downwind Loca	tion Description:	Flave	Reading: 2.2 p	pm.
Notes:	exceeded 20 miles per hour. N	o rainfall had occurred wi	e alternative requested 10 miles per hour an thin the previous 24 hours of the monitoring ernatives of the LMR requirements on the ab	event. Therefore, site

		CALIBRATION AN	D PERTINE	NT DATA	
Date:	10-5-22 Diego Ro		Site Name:	Sonoma	
Inspector(s):	Diego Ro	mero	Instrument:	TVA 2020	
WEATHER 08	SERVATIONS			y	
Wind Speed	d:	Wind Direction:	_	Barometric Pressure:	"Hg
Ai Temperature	50 E	General Weathe Conditions	- 8 ann	4	
CALIBRATION	INFORMATION			<u>/</u>	
Pre-monitoring	Calibration Precision Check				
and calculate the precision must be	brate the instrument, Make a ne average algebraic difference ne less than or equal to 10% of	e between the instrument the calibration gas value,	reading and the	calibration gas as a percent	age. The calibration
Instrument Seria	al Number: 54	<u> </u>		Cal Gas Concentration:	500ppm
Trial	Zero Air Reading	Cal Gas Reading	Cal Gas C	ConcCal Gas Reading	Response Time (seconds
1	-0.1	498	7		4
3	0.1	503	3		
		August Differen	2.	2	
1		Average Difference:	*Perform recalibration	n if average difference is greater than	10
		= 100%- = 99.34	3.3	_/500 x 100%	
Span Sensitivity:					
Trial 1:	unts Observed for the Span=	142064	Trial 3: Cour	nts Observed for the Span=	140668
	ters Observed for the Zero=	3096	Count	ers Observed for the Zero=	3885
Trial 2: Cou	unts Observed for the Span≃	138924			
Coun	ters Observed for the Zero=	3953			
Post Monitoring C	alibration Check				
Zero Air	v.	Cal Gas			
Reading:	ppm	Reading:	512	ppm	
BACKGROUND C	ONCENTRATIONS CHECKS				
Jpwind Location D	Description:	Cirid 17		Reading: 2-3	ppm
Downwind Locatio	n Description:	Flore		Reading: 2:3	opm
e	/ind speed averages were obs	o rainfall had occurred wit	thin the previous	24 hours of the monitoring	g event Therefore, site

SCE BESTERMANDE E FRANCIS EN PROPERTY STATES STATES STATES EN SALVERS STATES STATES STATES SALVERS STATES SALVERS STATES STATES SALVERS STATES SALVERS STATES SALVERS SALVER

1		CALIBRATION AN	1D PERTINEP	NT DATA	
Date	10-5-22		Site Name:	Sonomo	λ
Inspector	r(s): Alfredo	Gomez	Instrument:	TVA 2020	
WEATHE	ER OBSERVATIONS			185	
Wind :	Speed: MPH	Wind Direction:	_	Barometric Pressure: 36	"Hg
Temper	Air 50	General Weathe Conditions	er is: Shnny		
CALIBRAT	TION INFORMATION		,		
Pre-monit	toring Calibration Precision Check				
and calcule precision n	e: Calibrate the instrument. Make a late the average algebraic difference must be less than or equal to 10% of the Serial Number:	ce between the instrument	reading and the d	g zero air and the calibration calibration gas as a percention gas as a percention:	ntage. The calibration
Trial	Zero Air Reading	Cal Gas Reading	Cal Gas C	ConcCal Gas Reading	Response Time (seconds)
1	0	499		1	3
3	-01	500	-		5
Span Sensitiv	niho.	= 100%- = 99.8 148500		_/500 x 100%	
Trial 1:		10300	Trial 3:		
	Counts Observed for the Span=_	147460	Count	its Observed for the Span=	
Trial 2:	Counters Observed for the Zero=	3627	Counte	ers Observed for the Zero=	3656
	Counts Observed for the Span=				
	Counters Observed for the Zero=	3643			
Post Monitori	ring Calibration Check				
Zero Air Reading:	0 ppm	Cal Gas Reading:	505 p	ppm	\vec{E}_i
BACKGROUN	ND CONCENTRATIONS CHECKS				
Upwind Locati	ion Description:	Grid 17	R	Reading: 2,5	ppm
Downwind Loc	cation Description:	Flare		Reading: 2.4	ppm
Notes:	Wind speed averages were observed averages were observed and served averages were observed as were were observed as were averages were averages were averages were as were observed as well as we	lo rainfall had occurred wit	thin the previous 2	24 hours of the monitoring	g event. Therefore, site

SIES 135-148 CONTROL DE SURVESTE SURVES

Date:	10	105/22		Site Name:	Sonoma	(=
Inspector(s):	Alfred	la C	20MZ	Instrument:	TVA 2020		*
WEATHER O	BSERVATIONS						
Wind Spee	ed:M	1PH	Wind Direction: NE	_	Barometric Pressure: 30	. 03 "Нg	
/ Temperatur	Air re: <u>49 °</u> F		General Weath Condition	er 15: Cloudy	-		
CALIBRATION	INFORMATION		×				
Pre-monitorin	g Calibration Precisio	n Check					
and calculate t	the average algebraid be less than or equa	c difference be	al of three measureme etween the instrumen e calibration gas value	t reading and the c		ercentage. The calib	
Trial	Zero Air Read	ding	Cal Gas Reading		oncCal Gas Reading	Response Ti	me (second
1	0	-	3497	5,		4	
2	1.00		477	/		2	
3	-0.(402 Average Difference:	*Perform /ecalibration	if average difference is great	ter than 10	
	cision= Average Diffe		Average Difference: Conc. X 100% = 100%	ir_2		ter than 10	
Calibration Pred	cision= Average Differ	rence/Cal Gas	Average Difference: Conc. \times 100% = 100% = 97.5	ir_2		ter than 10	
Calibration Pred pan Sensitivity rial 1:	cision= Average Differ	rence/Cal Gas	Average Difference: Conc. X 100% = 100%	% Trial 3:		· · · · · ·	68
Dalibration Pred pan Sensitivity rial 1:	cision= Average Diffe	rence/Cal Gas	Average Difference: Conc. \times 100% = 100% = 97.5	% Trial 3:	/500 x 100%	Span=/5990	
pan Sensitivity rial 1: Cou	cision= Average Differ	rence/Cal Gas he Span= he Zero=	Average Difference: Conc. X 100% = 100% = 97, 5 158920 144680	% Trial 3:	/500 x 100% ts Observed for the S	Span= <u>/589</u> (
pan Sensitivity rial 1: Cou rial 2:	cision= Average Differ counts Observed for the inters Observed for the	rence/Cal Gas he Span= he Zero= ne Span=	Average Difference: Conc. X 100% = 100% = 97, 5 158920 144680 3849	% Trial 3:	/500 x 100% ts Observed for the S	Span= <u>/589</u> (
pan Sensitivity rial 1: Cou rial 2: Cou	cision= Average Differ cunts Observed for th unters Observed for th	rence/Cal Gas he Span= he Zero= ne Span=	Average Difference: Conc. X 100% = 100% = 97, 5 058920 144680 3849 158796	% Trial 3:	/500 x 100% ts Observed for the S	Span= <u>/589</u> (
pan Sensitivity rial 1: Cou rial 2: Cou	cision= Average Differ punts Observed for th unters Observed for th nunts Observed for th	ne Span= he Zero= ne Span= he Zero=	Average Difference: Conc. X 100% = 100% = 97, 5 058920 144680 3849 158796	% Trial 3: Counte	/500 x 100% ts Observed for the S	Span= <u>/589</u> (
pan Sensitivity rial 1: Cou rial 2: Cou ost Monitoring aro Air eading:	cision= Average Difference of the control of the co	ne Span=ne Span=ne Zero=	Average Difference: Conc. X 100% = 100% = 97, 5 158920 144680 3849 158796 3921 Cal Gas	% Trial 3: Counte	/500 x 100% ts Observed for the Sers Observed for the 2	Span= <u>/589</u> (
pan Sensitivity rial 1: Cou rial 2: Cou ost Monitoring aro Air eading:	cision= Average Difference of the ounts Observed for the ounts Obser	ne Span=ne Span=ne Zero=	Average Difference: Conc. X 100% = 100% = 97, 5 158920 144680 3849 158796 3921 Cal Gas	Trial 3: Counte	/500 x 100% ts Observed for the Sers Observed for the 2	Span= <u>/589</u> (

meteorological conditions were within the requested alternatives of the LMR requirements on the above mentioned date.

SCR BARRENATERE SCHOOL STATE AND THE DESIGN STATE

		CALIBRATION AN	ID PERTINEN	IT DATA	
Date	10/05/22		Site Name:	Sonoma	
Inspector((5): Ruben Rice	THE	Instrument:	TVA 2020	
WEATHE	R OBSERVATIONS			9	
Wind S	Speed: MPH	Wind Direction:	_	Barometric Pressure: 29.9	₽ "Hg
Tempera	Air ature: <u>50</u> F	General Weathe Conditions	s: Sunny	<u>-</u>	
CALIBRAT	TON INFORMATION				
Pre-monito	oring Calibration Precision Check				
and calcula precision m	Calibrate the instrument. Make on the the average algebraic different oust be less than or equal to 10% of Serial Number:	ce between the instrument of the calibration gas value.	reading and the o	zero air and the calibratio calibration gas as a percent Cal Gas Concentration:	n gas. Record the reading. age. The calibration 500ppm
Trial	Zero Air Reading	Cal Gas Reading	Cal Gas C	oncCal Gas Reading	Response 7/me (second
1	0	504	1	+	an second
2	-6.1	503	3		4
3	-0.1	702			4
		= 100%- = G9 (33	/500 x 100%	
Span Sensitiv	vity:	119			
Trial 1:	Counts Observed for the Span=	125724	Trial 3: Coun	ts Observed for the Span=	128012
	Counters Observed for the Zero=	3613	Counte	rs Observed for the Zero=	3612
Trial 2:	Counts Observed for the Span=	128576	Counte	13 Observed for the gero-	2012
C	Counters Observed for the Zero=	3614			
Post Monitori	ing Calibration Check				
Zero Air Reading	-0,1 ppm	Cal Gas Reading:	493	ppm	
BACKGROUN	D CONCENTRATIONS CHECKS	55			
Upwind Locati	on Description:	917	R	eading: $\frac{2.5}{1.5}$	ppm
Downwind Loc	ation Description:	Place		eading: 7,1 p	pm
Votes:	Wind speed averages were ob- exceeded 20 miles per hour. N meteorological conditions wer	lo rainfall had occurred wit	hin the previous	24 hours of the monitoring	event. Therefore, site

SURFACE EMISSIONS MONITORING

SCE BURGERANDE STANDED TO WELL BURGER STANDED TO STANDE

CALIBRATION AND PERTINENT DATA						
J	Date:	10/65/2	2	Site Name	Syroma	
	Inspector(s)	Diego R	omero	Instrument:	TVA 2020	
	WEATHER OBS	ERVATIONS			B	
	Wind Speed:	МРН	Wind Direction:	<u>u</u>	Barometric Pressure: 29.99	"Hg
	Air Temperature:	5ე ა	General Weath Condition	er Sunny		
	CALIBRATION II	VFORMATION		7		
	Pre-monitoring C	alibration Precision Check				
	ana calculate the	ate the instrument. Make of average algebraic difference less than or equal to 10% of Number:	ce between the instrumen of the calibration gas value	t reading and the ca	zero air and the calibration dibration gas as a percento Cal Gas Concentration:	gas. Record the readings age. The calibration 500ppm
and and	Trial	Zero Air Reading	Cal Gas Reading	ICAL Gas Cox	ag Cal Cag Baseling	Wasses P. V. I
1	1	- U (560	Cal das Con	ncCal Gas Reading	Response Time (seconds
1	3	-6.1	499	1		4
		on= Average Difference/Cal		<u> </u>	500 x 100%	
S	pan Sensitivity:		• • • •	l .		
	rial 1:	ts Observed for the Span=	142400	Trial 3: Counts	Observed for the Span=	141064
L		534 rs Observed for the Zero=	18	Counters	Observed for the Zero=	5369
Tr	<u>ial 2:</u> Count	s Observed for the Span=	141064			
L	Counter	rs Observed for the Zero=	5379			
Ро	st Monitoring Cali	bration Check				
	ro Air ading:) , \	Cal Gas Reading:	L 86 pp	m	
BA	CKGROUND CON	CENTRATIONS CHECKS				
Up	wind Location Des	cription:	GIN	Rea	ading: WS pr	om
Dov	wnwind Location [Description:	Plane	Rea	ading: 24 pp	nm
Not	ехсе	d speed averages were obs eded 20 miles per hour. N eorological conditions were	o rainfall had occurred wi	thin the previous 24	hours of the monitoring e	event. Therefore, site

\			CALIBRATION AF	ND PERTINEN	IT DATA	
3	Date:	10/06/22		Site Name;	Sonoma	
	Inspector(s)			Instrument:	TVA 2020	
	WEATHER OB	SERVATIONS			75	
	Wind Speed		Wind Direction: NE		Barometric Pressure: 30.07	"Hg
	Air Temperature:	2 1 61	General Weath Condition	er Cloudy	4	
ŀ	CALIBRATION	INFORMATION		J		
F	Pre-monitoring	Calibration Precision Check				
p	and calculate the	rate the instrument, Make a e average algebraic differenc e less than or equal to 10% o I Number:	e between the instrument f the calibration gas value	reading and the c	zero air and the calibration alibration gas as a percente Cal Gas Concentration:	gas. Record the readings age. The calibration 500ppm
+	rial	Zero Air Reading	Cal Gas Reading	I Cal Gas Co	oncCal Gas Reading	Response Time (seconds
	1	0	497	3	one. Car das nedambi	The sports of time (seconds
1	3	-O.Z	500	0		
		ion= Average Difference/Cal		~ ~	/500 x 100%	
-	an Sensitivity:					
Tri	al 1: Cou	nts Observed for the Span=	161352	Trial 3: Count	s Observed for the Span=	155740
L		ters Observed for the Zero=	5879	Counter	rs Observed for the Zero=	5831
Tria	al 2: Cour	nts Observed for the Span=_	157812			
L	Count	ers Observed for the Zero=	5837			
Pos	t Monitoring Ca	alibration Check				
0	O Air ding:	←O \ \ ppm	Cal Gas Reading:	487.	pm	
зас	CKGROUND CC	DINCENTRATIONS CHECKS				
Upw	vind Location De	escription:	G17	R	eading:p	pm
Dow	nwind Location	Description	lare		eading: 2.2 p	om
Note	exc	nd speed averages were obs ceeded 20 miles per hour. Notes eteorological conditions were	o rainfall had occurred wi	thin the previous 2	24 hours of the monitoring	event. Therefore, site

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			SURFACE EMIS	CIONIC MIONIE	TODING	
			CALIBRATION A			
				AND PENNING!	BIDAIA	
	Date:	10/06/22		Site Name:	Sonoma	
	Inspector(s)	Alfredo E	70 MZ	Instrument:	TVA 2020	
	WEATHER OB	SERVATIONS			2:	
	Wind Speed	: MPH	Wind Direction: N E	9	Barometric Pressure: 30.03	3 "Hg
	Ai Temperature	1 1 //	General Weat Conditio	ther Cloudy	<u>.</u>	
1	CALIBRATION	INFORMATION				
F	Pre-monitoring	Calibration Precision Check				
a	ind calculate th	rate the instrument. Make o e average algebraic differen e less than or equal to 10% o	ce between the instrumei	nt reading and the c	zero air and the calibration alibration gas as a percent	n gas. Record the readings age. The calibration
Ir	nstrument Seria	Number: 54	21		Cal Gas Concentration:	500p pm
Ī	rial	Zero Air Reading	Cal Gas Reading	Cal Gas Co	oncCal Gas Reading	Response Time (seconds)
-	1	60	499			4
·	3	-0.7	500	0		3/
) -	3	-0.2	501			4
Ca	libration Precis	ion= Average Difference/Cal		6-	if average difference is greater than 1 $^{\prime}$ 500 $ imes$ 100%	0
			= ()	%		
	n Sensitivity:			7.1.13		
		nts Observed for the Span=	149016	Trial 3: Count	s Observed for the Span=	149996
_		ers Observed for the Zero=	4196	Counter	s Observed for the Zero=	4223
Tria		nts Observed for the Span=	149284			
<u>_</u>	Count	ers Observed for the Zero=	4272			
Post	Monitoring Ca	libration Check				
Zero Reac		ppm	Cal Gas Reading:	502 p	om	*
BAC	KGROUND CO	NCENTRATIONS CHECKS				
Upwi	nd Location De	escription:	617	Re	eading: ZI p	om
Dowr	wind Location	Description:	lare	Re	eading: ZcZ p	om.

Notes:

Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous speeds exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site meteorological conditions were within the requested alternatives of the LMR requirements on the above mentioned date. SCS. D. 188 Same Janes ... Francisco Francisco Francisco Con States Con 18 and 18 and

,		ND PERTINENT DATA	A	
	e-22	Site Name: Se	inema	
Inspector(s): D. Ro	smerd	Instrument: TVA 20	020	
WEATHER OBSERVATIONS			¥	
Wind Speed:MP	Wind PH Direction:	Barome Press		"Hg
Air Temperature: 46 *F	General Weath Condition	ner Cloudy		
CALIBRATION INFORMATION				
Pre-monitoring Calibration Precision	Check			
Procedure: Calibrate the instrument, and calculate the average algebraic precision must be less than or equal lastrument Serial Number:	difference between the instrument	t reading and the calibration e.	and the calibration ganges as a percentage. George Concentration:	s. Record the readings The calibration 500ppm
Trial Zero Air Readi	ing Cal Gas Reading	Cal Gas ConcCal G	as Reading R	esponse Time (seconds)
1 -0.	279			3/
3 - 6-1	308	O		3
	= 100% =	5- <u>0.3</u> /500 x 100	0%	
Span Sensitivity: Trial 1:	7			
Counts Observed for the	e Span= 147308	Trial 3: Counts Observe	ed for the Span=	Ce9700
Counters Observed for the	e Zero= 500 8	Counters Observe	ed for the Zero=	1996
Frial 2: Counts Observed for the	2 Span= 169588			
Counters Observed for the	e Zero= 5076			
ost Monitoring Calibration Check		505		
ero Air eading:ppm	Cal Gas Reading:	505 555		
ACKGROUND CONCENTRATIONS C	CHECKS			
pwind Location Description:	Girid M	Reading:	2.1 ppm	
ownwind Location Description:	Flore	Reading:	2.2 ppm.	
exceeded 20 miles per	were observed to remain below th hour. No rainfall had occurred w ions were within the requested alt	ithin the previous 24 hours o	of the monitoring eve	ent. Therefore, site

			SURFACE EMISSION	ONS MONITO	DRING	
			CALIBRATION AND	D PERTINENT	DATA	
1	Date:	10-6-2	2.2	Site Name	Sonomo	ν
J	Inspector(s):	Bryan (Dehoa	Instrument:	TVA 2020	
	WEATHER OB	SERVATIONS			97	
	Wind Speed	d:MPH	Wind Direction: 255		Barometric Pressure:	"Hg
	Ai Temperature	fi f	General Weather Conditions:	cloudy		
	CALIBRATION	INFORMATION		/		
	Pre-monitoring	Calibration Precision Check				
	and calculate th	ne average algebraic differen ne less than or equal to 10% o 17	a total of three measurement ce between the instrument re of the calibration gas value.	ts by alternating z eading and the ca	ero air and the calibration libration gas as a percent Cal Gas Concentration:	age., The calibration
1	Trial	-101		w		500ppm
-	1	Zero Air Reading	Cal Gas Reading	Cal Gas Con	cCal Gas Reading	Response Time (seconds)
I	2	~0:1	500	~	5	4
1	3	0	499			3
c	Calibration Precis	sion= Average Difference/Cal		Λ /2	overage difference is greater than 1 $000 \times 100\%$	0
4-	oan Sensitivity:		= 99.88	6		
T		unts Observed for the Span=	3946	rial 3: Counts	Observed for the Span=	122852
Ir	ial 2:	ters Observed for the Zero=	171088	Counters	Observed for the Zero=	SMU
L	Count	ters Observed for the Zero=	4959			
Ро	st Monitoring C	alibration Check				
	ro Air ading:	5.Q ppm	Cal Gas Reading:	513_pp	n	-
ВА	CKGROUND C	ONCENTRATIONS CHECKS)			
Up	wind Location D	escription:	Carid 17	Rea	ading: 2.2 p	pm
Dov	wnwind Location	n Description:	flore	Rea	ding: 2.1 p	pm
Not	ex	ceeded 20 miles per hour. I	served to remain below the a	in the previous 24	ted 10 miles per hour and	d no instantaneous speeds event. Therefore, site

SEE TO CONTRACT TO SECRETARIES SECRETARIES

1		CALIBRATION A	ND PERTINEN	IT DATA	
Date:	10-1	9-22	Site Name	Sonom	a
Inspector(s):	Don	Fibson	Instrument:	TVA 2020	
WEATHER OB	SERVATIONS				
Wind Speed	l:MF	Wind Direction:	<u> </u>	Barometric Pressure:	"Hg
Ail Temperature	46 *	General Weath Condition	ier Cloud	4	
CALIBRATION	INFORMATION				
Pre-monitoring	Calibration Precision	Check			
and calculate th	e average algebraic se less than or equal	Make a total of three measurement difference between the instrument to 10% of the calibration gas value	t reading and the c	zero air and the calibration alibration gas as a percent Cal Gas Concentration:	n gas. Record the readings age. The calibration 500ppm
Trial	Zero Air Read	ng Cal Gas Reading	Cal Gas Co	oncCal Gas Reading	Response Time (seconds
1	0.0	503	3		R
3	-0.1	503	2	5	T/
	0 1	SOL	4		
		= 100% = 99.48	2.6	/500 x 100%	
pan Sensitivity:					
rial 1: Cou	ints Observed for the	Span= 182192	Trial 3:	s Observed for the Span=	183664
	ters Observed for the	Zero= 434 (Counte	rs Observed for the Zero=	4427
rial 2: Cou	nts Observed for the	Span= 184124	l.		
Count	ers Observed for the	Zero= 5037			
st Monitoring Ca	alibration Check				
ro Air		Cal Gas			
ading:	\.2ppm	Reading:	509	pm	
CKGROUND CC	ONCENTRATIONS C	HECKS			
wind Location Do	escription!	and 17	R	eading: 2:1 p	pm
wnwind Location	Description	5/cur	R	eading:p	pm
exc	ceeded 20 miles per	vere observed to remain below th hour. No rainfall had occurred wi	ithin the previous 2	24 hours of the monitoring	d no instantaneous speeds event. Therefore, site

- None of the state of the stat

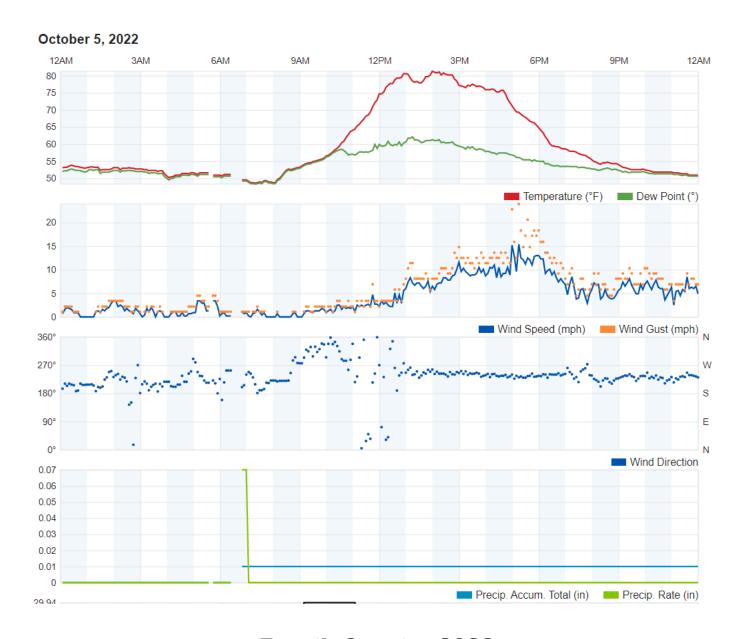
		CALIBRATION AN	D PERTINE	NT DATA		
Date:	alyla		Site Name:	Sonow	la	-
Inspector(s):	D. Romero		Instrument:	TVA 2020		
WEATHER OF	BSERVATIONS					
Wind Speed	d: U MPH	Wind Direction:	-	Barometric Pressure:	30.03	"Hg
A Temperature	/ 🐧	General Weathe Conditions	Sunny	=		
CALIBRATION	INFORMATION					
Pre-monitoring	g Calibration Precision Check					
and calculate t	ibrate the instrument. Make the average algebraic differer be less than or equal to 10% ial Number:	ice between the instrument	reading and the	calibration gas		
Trial	Zero Air Reading	Cal Gas Reading	ICal Gas (ConcCal Gas F	eading	Response Time (seconds)
1	0	502		2		ч
2	-0.	502		2		5
Span Sensitivity	:	= 100%-	· _ \.3	_/500 x 100%		
rrial 1:		122 110/	Trial 3:	nts Observed f	as the Coop	Wa Call
	ounts Observed for the Span		1			
Cou Frial 2:	unters Observed for the Zero	4737	Coun	ters Observed	for the Zero=	4655
	ounts Observed for the Span-	3 5				
Cou	inters Observed for the Zero-	4664				
ost Monitoring	Calibration Check					
ero Air teading:	-4.2 ppm	Cal Gas Reading:	489	_ppm		
ACKGROUND	CONCENTRATIONS CHECK	S				
pwind Location	n Description:	C163	*	Reading:	2.)	ppm
ownwind Locat	ion Description:	(16	e e	Reading:	2.8	ppm
	Wind speed averages were of exceeded 20 miles per hour. meteorological conditions w	No rainfall had occurred w	vithin the previou	s 24 hours of t	he monitorin	g event. Therefore, site

		SURFACE EMISS			
	1 1	CALIBRATION AN	ID PERTINE	NT DATA	i.
Date:	11/4/22		Site Name:	Sonoma	
inspector(s):	B. Ochoa		Instrument:	TVA 2020	
WEATHER O	BSERVATIONS			18	
Wind Spee	ed: Ч МРН	Wind Direction: \\\\	- :	Barometric Pressure: 30.03	"Hg
/ Temperatur	Air re: <u>68</u> °F	General Weathe Conditions	er s: Sunny	_	
CALIBRATION	N INFORMATION			×	
Pre-monitoring	g Calibration Precision Check				
and calculate t	librate the instrument. Make the average algebraic differer t be less than or equal to 10% rial Number:	nce between the instrument	reading and the	g zero air and the calibration calibration gas as a percent Cal Gas Concentration:	n gas. Record the readings age. The calibration 500ppm
Trial	Zero Air Reading	Cal Gas Reading	Cal Gas C	oncCal Gas Reading	Response Time (seconds)
1	0	100		0	5
2 3	-0.1	500		0	4
3	-0.1	499	<u> </u>		2
Calibration Prec	cision= Average Difference/Ca	= 100%- = 99.8	<u>-3</u>	/500 × 100%	
Trial 1:	are Observed for the Space		Trial 3:		
	ounts Observed for the Span=			ts Observed for the Span=_	CONTRACTOR OF THE PARTY OF THE
Cou Frial 2:	unters Observed for the Zero=	= 4822	Counte	ers Observed for the Zero=	4723
Со	ounts Observed for the Span= inters Observed for the Zero=	INCOMES TO THE			
	Calibration Check				
ero Air eading:	U.\ppm	Cal Gas Reading:	511	opm	
ACKGROUND (CONCENTRATIONS CHECKS	5			
pwind Location	Description:	(1/63)	ı	Reading: <u>2.2</u> p	pm
ownwind Location	on Description:	(16	ı	Reading: 2.8 p	pm
E	Wind speed averages were of exceeded 20 miles per hour.	No rainfall had occurred wit	thin the previous	tested 10 miles per hour and 24 hours of the monitoring	d no instantaneous speeds event. Therefore, site

SCS Deservines - Service Envise amanial Date - - - -

Attachment 6

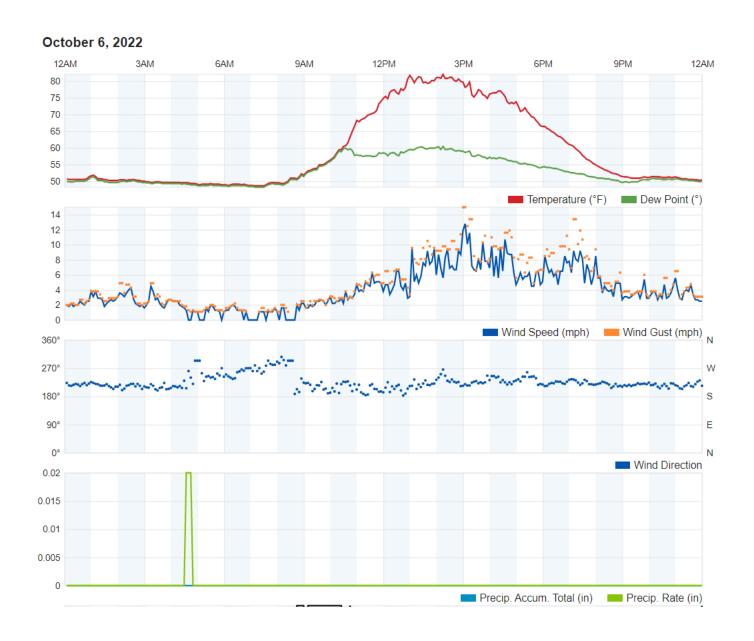
Weather Data



Fourth Quarter 2022

LMR Instantaneous Weather Data for October 5, 2022

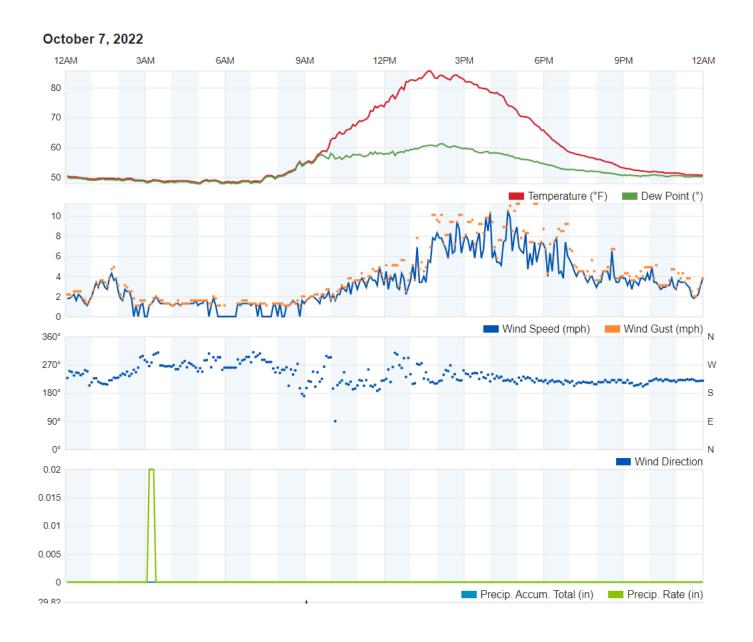
Sonoma Central Landfill, Petaluma, California



Fourth Quarter 2022

LMR Instantaneous Weather Data for October 6, 2022

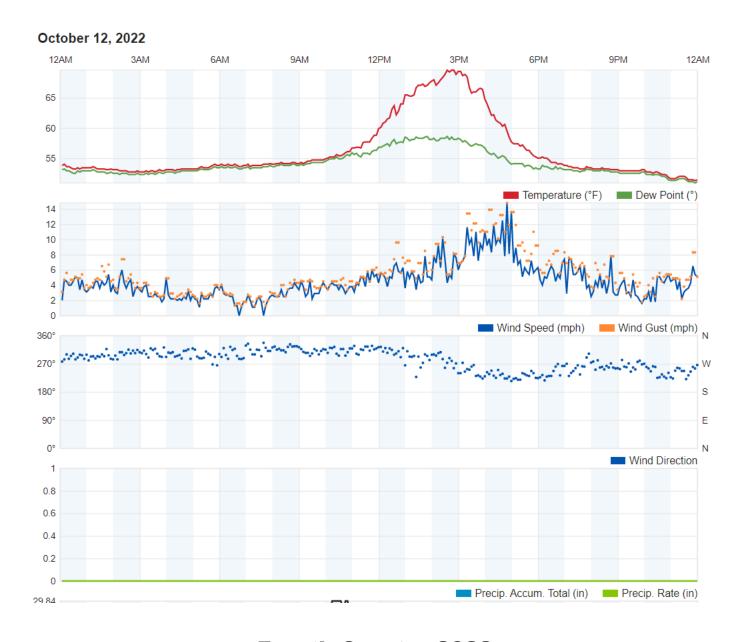
Sonoma Central Landfill, Petaluma, California



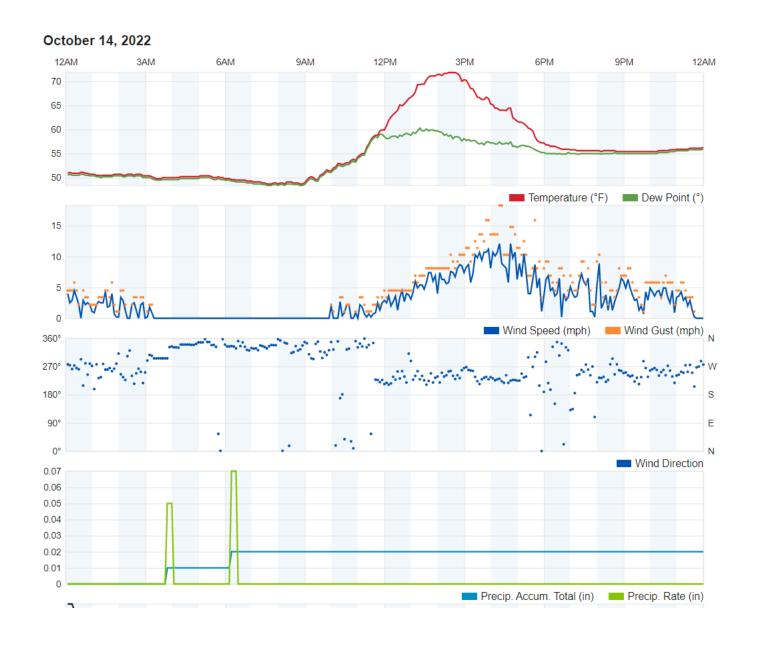
Fourth Quarter 2022

LMR Instantaneous Weather Data for October 7, 2022

Sonoma Central Landfill, Petaluma, California



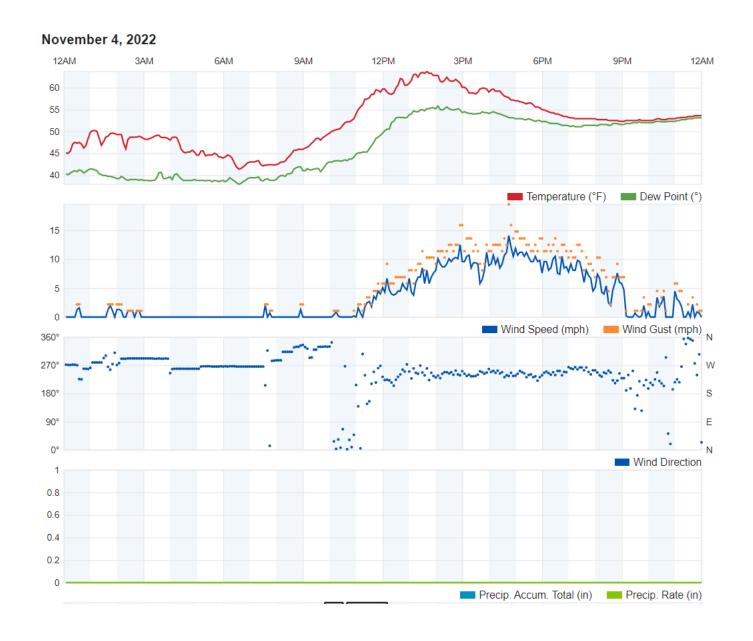
Fourth Quarter 2022
LMR Instantaneous Weather Data for October 12, 2022
Sonoma Central Landfill, Petaluma, California



Fourth Quarter 2022

LMR Instantaneous Weather Data for October 14, 2022

Sonoma Central Landfill, Petaluma, California



Fourth Quarter 2022
LMR Instantaneous Weather Data for November 4, 2022
Sonoma Central Landfill, Petaluma, California

SCS FIELD SERVICES

May 24, 2023 File No. 07221077.00

Mr. Derek Cheney Republic Services – Sonoma Central Landfill 500 Mecham Road Petaluma, California 95492

Subject: Sonoma Central Landfill - Petaluma, California

Landfill Methane Rule (LMR) and New Source Performance Standards (NSPS)

Surface Emissions Monitoring for First Quarter 2023.

Dear Mr. Cheney:

SCS Field Services (SCS) is pleased to provide the Republic Services, with the enclosed report summarizing the surface emissions monitoring services provided at the Sonoma Central Landfill (Site) during the first quarter 2023. This report includes the results of surface scan, component emissions and blower/flare station emissions monitoring for the Site for this monitoring period.

SCS appreciates the opportunity to be of assistance to Republic Services on this project. As you review the enclosed information, please contact Michael Flanagan at (510) 363-7796 or Whitney Stackhouse at (209) 338-7990 if you have any questions or comments.

Sincerely,

Whitney Stackhouse Project Manager SCS Field Services Michael Flanagan Project Manager SCS Field Services

Encl.

Sean Bass, SCS Field Services Art Jones, SCS Field Services

Sonoma Central Landfill

Landfill Methane Rule (LMR) and New Source Performance Standards (NSPS) Surface Emissions Monitoring

First Quarter 2023

Presented to:



Mr. Derek Cheney Republic Services – Sonoma Central 500 Mecham Road Petaluma, California 94952

SCS FIELD SERVICES

File No. 07221078.00 Task 01 | May 24, 2023

SCS FIELD SERVICES 4730 Enterprise Way Suite A Modesto, CA 95356

Sonoma Central Landfill

Landfill Methane Rule (LMR) and New Source Performance Standards (NSPS) Surface Emissions Monitoring First Quarter 2023

INTRODUCTION

This letter provides results of the January 30, 31, February 1, 9 and March 1, 2023, LMR and NSPS landfill surface emissions monitoring (SEM) performed by SCS Field Services (SCS) at the subject site. All work was performed in accordance with our approved Work Scope dated December 23, 2020, and the LMR requirements.

The Sonoma Central Landfill is an active organic refuse disposal site. By way of background, organic materials buried in a landfill decompose anaerobically (in the absence of oxygen) producing a combustible gas which contains approximately 50 to 60 percent methane gas, 40 to 50 percent carbon dioxide, and trace amount of various other gases, some of which are odorous. The Sonoma Central property contains a system to control the combustible gases generated in the landfill.

SUMMARY AND CONCLUSIONS

As stipulated in LMR, if uncorrectable exceedances within the 10-day limitation are detected or emissions are discovered during an inspection by Regulatory Agencies, the landfill must perform monitoring on a 25-foot pathway on a quarterly basis for active disposal sites. Upon completion of four consecutive SEM events without an uncorrectable exceedance of the 25 ppmv or 500 ppmv standards, other than non-repeatable momentary readings, the landfill may perform the monitoring on a 100-foot spacing on an annual basis for closed landfills or quarterly for active disposal sites. Therefore, based on the previous monitoring events, in which exceedances were observed, the monitoring at the Sonoma Central Landfill was performed on 25-foot pathways in accordance with the LMR.

On January 30, 31, and February 1, 2023, SCS performed first quarter 2023 SEM as required by the Bay Area Air Quality Management District (BAAQMD). Instantaneous surface emissions monitoring results indicated that four (4) location exceeded the 500 ppmv maximum concentration during the initial monitoring event (Table 1 in Attachment 3). The required first 10-day (LMR/NSPS) and 30-day (NSPS) follow-up monitoring indicated that the location had returned to below regulatory compliance limits following system adjustments and remediation (well field adjustments and installation of new bentonite plugs) by SCS personnel. Based on these monitoring results no additional follow up testing was required.

Also, during the instantaneous monitoring event, SCS performed concurrent integrated monitoring of the landfill surface. As required by the LMR, the landfill was divided into 50,000 square foot areas. The Sonoma Central Landfill surface area was therefore divided into 163 grids, as shown on Figure 1 in Attachment 1. During this monitoring event, several grids were not monitored, in accordance with

the regulations, due to ongoing active landfilling activities, unsafe conditions, or there was no waste in place prior to the monitoring event.

During the monitoring event, there were no grid areas observed to exceed the 25 ppmv LMR integrated average threshold (Table 2 in Attachment 4). Based on these monitoring results, no additional follow up monitoring is required at this time. These results are discussed in a subsequent section of this report.

In addition, quarterly monitoring of the pressurized piping or components of the Gas Collection and Control System (GCCS) that are under positive pressure must be performed. Results of the testing of the landfill gas (LFG) Blower Flare Station (BFS) pressurized piping and components indicated that all test locations were in compliance with the 500 ppmv requirement.

Further, as required under the LMR, any location on the landfill that has an observed instantaneous methane concentration above 200 ppmv, must be stake-marked and Global Positioning System (GPS) located on a site figure. During this reporting period, three (3) locations were observed to exceed the 200 ppmv, reporting threshold, in addition to the location noted above. When these readings are observed, the locations are reported to site personnel for tracking and/or remediation and will be reported in the next submittal of the annual LMR report. Please see the figure in Attachment 3 for location details.

Finally, to help prevent potential future exceedances, SCS recommends that the landfill surface be routinely inspected and any observed surface erosion be routinely repaired.

SURFACE EMISSIONS MONITORING

On January 30, 31, February 1, 9 and March 1, 2023, the instantaneous and integrated SEM was performed over the surface of the subject site. The intent of the monitoring was to identify any specific locations or areas of the landfill surface with organic compound concentrations exceeding the LMR threshold limit values of 500 ppmv measured as methane for instantaneous monitoring, or an average methane concentration of 25 ppmv for the integrated monitoring in the 50,000 square foot grids as required under the LMR. During this event, SCS performed the monitoring on a 25-foot pathway in accordance with the rules as required.

EMISSIONS TESTING INSTRUMENTATION/CALIBRATION

Instruments used to perform the landfill surface emission testing consisted of the following:

- Thermo Scientific TVA 2020 portable Flame Ionization Detector (FID). This instrument
 measures methane in air over a range of 1 to 50,000 ppmv. The TVA 2020 meets the State
 of California Air Resources Board (CARB) requirements for combined instantaneous and
 integrated monitoring and was calibrated in accordance with United States Environmental
 Protection Agency (US EPA) Method 21.
- Weather Anemometer with continuous recorder for meteorological conditions in accordance with the LMR.

Instrument calibration logs and weather information are shown in Attachments 5 and 6.

SURFACE EMISSIONS MONITORING PROCEDURES

Surface emissions monitoring was conducted in accordance with the LMR and NSPS requirements. Monitoring was performed with the FID inlet held within 3-inches of the landfill surface while a technician walked a grid in parallel paths not more than 25 -feet apart over the surface of the landfill. Cracks, holes and other cover penetrations in the surface were also tested. Surface emissions readings were monitored continuously and recorded every 5 seconds. Any areas in exceedance of the 200 or 500 ppmv standards (reporting and compliance levels, respectively) would be GPS tagged and stake-marked for on-site personnel to perform remediation or repairs.

The integrated average is based on the readings stored on the instrument, which are recorded every 5 seconds. The readings are then downloaded and the averages are calculated for each grid using SCS eTools®. All readings are maintained in this secure SCS Database. The readings are not provided in the report due to the volume of readings, but can be furnished upon request.

Recorded wind speed results are shown in Attachment 6. Wind speed averages were observed to remain below the alternative threshold of 10 miles per hour, and no instantaneous speeds exceeded 20 miles per hour. No rainfall had occurred within 72 hours of the monitoring events. Therefore, site meteorological conditions were within the alternatives of the LMR requirements on the above mentioned dates.

TESTING RESULTS

During this event, SCS performed the monitoring on a 25-foot pathway in accordance with the rule as required under the LMR and NSPS. The intent of the monitoring was to identify any specific locations or areas of the landfill surface with organic compound concentrations exceeding the LMR or NSPS threshold limit values of 500 ppmv measured as methane for instantaneous monitoring, or an average methane concentration of 25 ppmv for the integrated monitoring (LMR).

On January 30, 31 and February 1, 2023, SCS performed first quarter 2023 instantaneous emissions monitoring testing as required by the BAAQMD. During this monitoring, surface emissions results indicated that four (4) locations exceeded the 500 ppmv maximum concentration. The required 10-day (LMR/NSPS) and 30-day (NSPS) follow-up monitoring performed on February 9 and March 1, 2023, respectively, indicated that the location had returned to compliance following system adjustments and remediation (wellfield adjustment and borehole repairs using bentonite and soil) performed by SCS personnel. Based on these monitoring results no additional follow up testing was required. Results of the monitoring are shown in Attachments 2 and 3 (Table 1).

Additionally, calculated integrated grid monitoring indicated no areas exceeded the 25-ppmv requirement during this monitoring event. Based on these monitoring results no additional follow up testing was required. Results of the monitoring are shown in Attachment 4 (Table 2). Calibration logs for the monitoring equipment are provided in Attachment 5.

During this monitoring event, several grids were not monitored, in accordance with the LMR, due to active landfilling activities, unsafe conditions or no waste in place. SCS will continue to monitor all accessible locations during the second quarter 2023.

PRESSURIZED PIPE AND COMPONENT LEAK MONITORING

On January 30, 2023, quarterly leak monitoring was performed in accordance with the LMR. SCS performed LFG pressurized pipe and component leak monitoring at the BFS and PGF Facility. Monitoring was performed with the detector inlet held one-half of an inch from pressurized pipe and associated components. No location exceeding the 500 ppmv threshold was observed during our monitoring event at the Power Facility, the maximum reading was 417 ppmv. Therefore, based on these results all pressurized piping and components located at the LFG Power Facility were in compliance at the time of monitoring.

PROJECT SCHEDULE

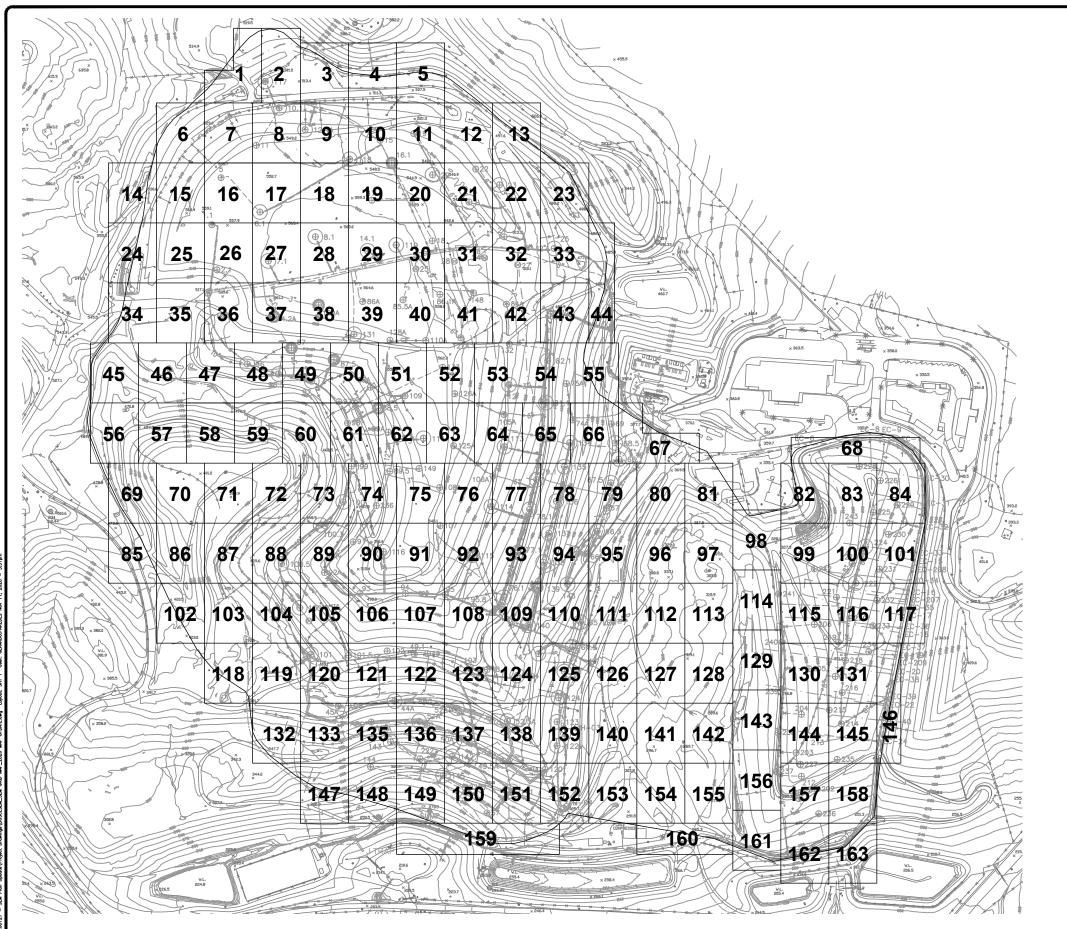
According to the LMR and NSPS, surface emissions monitoring at active landfills is required to be performed on a quarterly basis. Therefore, in accordance with our approved Work Scope, the second quarter 2023 (April through June) surface emissions testing event is scheduled to be performed by the end of June 2023 in accordance with the Republic SOP unless an alternative timeline is requested by site personnel.

STANDARD PROVISIONS

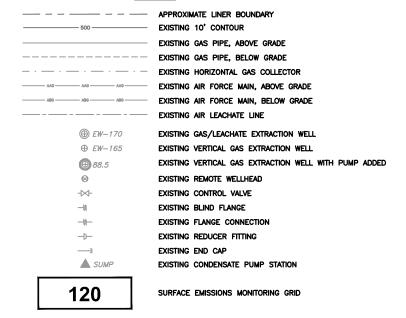
This report addresses conditions of the subject site during the testing dates only. Accordingly, we assume no responsibility for any changes that may occur subsequent to our testing which could affect the surface emissions at the subject site or adjacent properties.

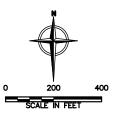
Attachment 1

Landfill Grid



LEGEND





NOTES:

1. THE 2020 TOPOGRAPHIC MAP WAS PREPARED BY COOPER AERIAL SURVEYS CO. DATE OF PHOTOGRAPHY: JANUARY 31, 2020. HORIZONTAL DATUM: NAD27, ZONE 2 VERTICAL DATUM: NGVD29.

2. THE 2018 GCCS AS-BUILT GCCS IMPROVEMENTS PROVIDED BY REPUBLIC SERVICES INC. ON SEPTEMBER 20, 2018.

TETRA TECH DESCRIPTION DWN BY DES BY CHK BY APP B CHECKED BY ____

SONOMA COUNTY CENTRAL LANDFILL PETALUMA, CALIFORNIA

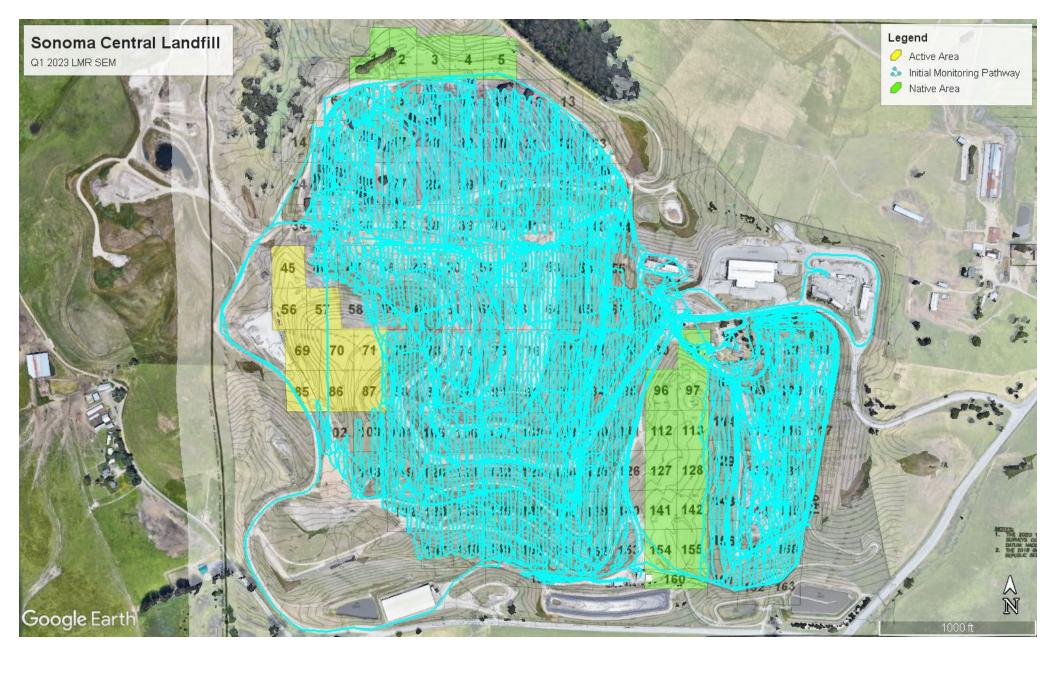
> SURFACE EMISSIONS MONITORING **GRID MAP**

SHEET NO. PROJECT NO.

197-200019

Attachment 2

Surface Pathway



First Quarter 2023

LMR Surface Emissions Monitoring Pathway

Sonoma Central Landfill, Petaluma, California

Attachment 3

Instantaneous and Component Emissions Monitoring Results

Table 1. Instantaneous Surface Emissions Monitoring Results Sonoma Central Landfill, Sonoma, California

Instantaneous Data Report for January 30, 31 and February 1, 9 and March 1, 2023

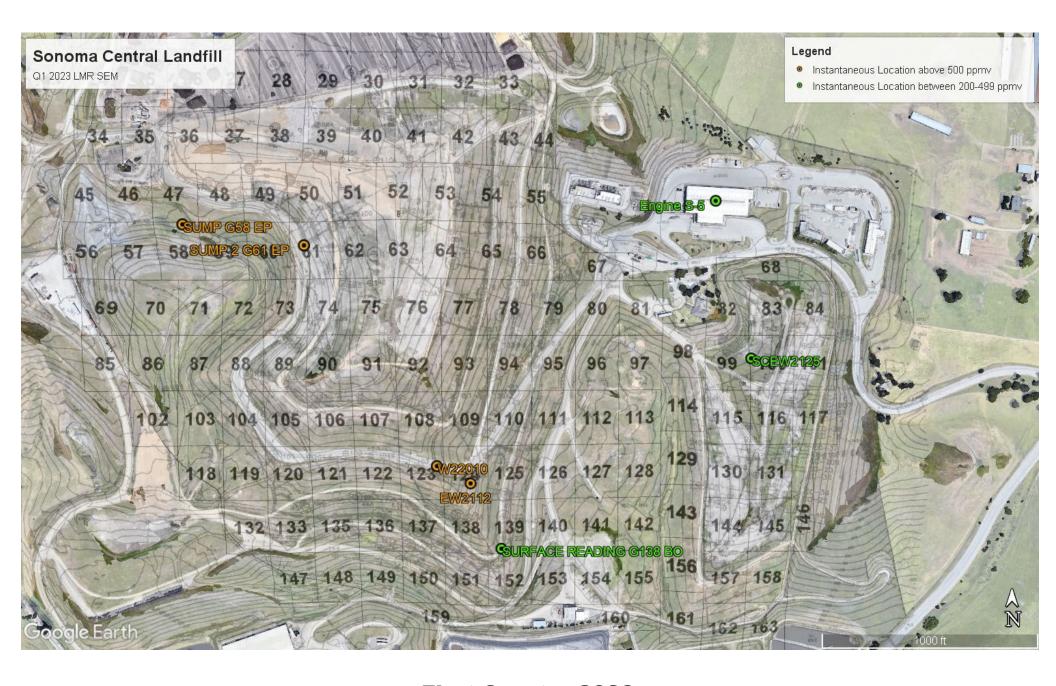
Highest Component Readings

Location	Initial Monitoring (ppmv) 1/30/2023	Initial Monitoring (ppmv) 1/31/2023	Initial Monitoring (ppmv) 2/1/2023	First 10-Day Follow Up Monitoring (ppmv) 2/9/2023	30-Day Follow Up Monitoring (ppmv) 3/1/2023	Latitude Longitude
EW2112	992			8	3.8	N38° 17.876' W122° 44.985'
W22010	1,336			25	73.2	N38° 17.882' W122° 45.014'
SUMP 2 G61 EP			2,233	160	417	N38° 18.052' W122° 45.139'
SUMP G58 EP			2,800	68	377	N38° 18.067' W122° 45.251'
Engine S-5	417					N38° 17.868' W122° 45.209'
SCEW2125	230					N38° 17.969' W122° 44.716'
SURFACE READING G138 BO		230				N38° 17.826' W122° 44.956'

Highest Pressurized Pipe Readings

Location	Initial Monitoring (ppmv) 1/30/2023	
Flare	28.80	
Engine S-5	417	

No additional exceedances of the 500 ppm threshold were observed during the monitoring performed during the first quarter 2023.



First Quarter 2023
Initial Emissions Monitoring Locations Greater Than 200 ppm and 500 ppmv
Sonoma Central Landfill, Petaluma, California

Attachment 4

Integrated Monitoring Results

Point Name	Record Date	FID Concentration (ppm)	Comments
SC001			Native Grid
SC002			Native Grid
SC003			Native Grid
SC004			Native Grid
SC005			Native Grid
SC006	1/31/2023	4.07	
SC007	1/31/2023	2.39	
SC008	1/31/2023	6.85	
SC009	1/31/2023	10.56	
SC010	1/30/2023	10.73	
SC011	1/31/2023	8.61	
SC012	1/30/2023	13.30	
SC013	1/31/2023	13.55	
SC014	1/30/2023	4.66	
SC015	1/30/2023	5.19	
SC016	1/30/2023	4.49	
SC017	1/31/2023	3.38	
SC018	1/30/2023	3.40	
SC019	1/30/2023	3.86	
SC020	1/31/2023	5.41	
SC021	1/30/2023	4.54	
SC022	1/31/2023	16.21	
SC023	1/31/2023	3.48	
SC024	1/30/2023	4.43	
SC025	1/30/2023	4.63	
SC026	1/30/2023	4.54	
SC027	1/31/2023	5.24	
SC028	1/30/2023	2.83	
SC029	1/30/2023	1.74	
SC030	1/31/2023	3.20	
SC031	1/30/2023	1.93	
SC032	1/31/2023	5.22	
SC033	1/31/2023	6.88	
SC034	1/30/2023	4.21	
SC035	1/30/2023	4.39	
SC036	1/30/2023	4.85	
SC037	1/31/2023	5.27	
SC038	1/30/2023	3.51	
SC039	1/30/2023	3.72	
SC040	1/31/2023	1.94	
SC041	1/30/2023	3.11	
SC042	1/31/2023	4.20	
SC043	1/31/2023	7.04	

Point Name	Record Date	FID Concentration (ppm)	Comments
SC044	2/1/2023	4.07	
SC045			Active Grid
SC046	1/31/2023	1.91	
SC047	1/31/2023	3.60	
SC048	1/31/2023	10.76	
SC049	1/31/2023	7.14	
SC050	1/31/2023	7.06	
SC051	1/31/2023	2.33	
SC052	1/30/2023	2.42	
SC053	1/30/2023	2.83	
SC054	1/31/2023	1.36	
SC055	1/31/2023	1.63	
SC056			Active Grid
SC057			Active Grid
SC058	1/31/2023	10.29	
SC059	1/31/2023	8.15	
SC060	1/31/2023	3.03	
SC061	1/31/2023	11.17	
SC062	1/31/2023	5.23	
SC063	1/30/2023	1.75	
SC064	1/30/2023	3.55	
SC065	1/31/2023	0.85	
SC066	2/1/2023	3.12	
SC067	2/1/2023	2.87	
SC068	1/30/2023	1.70	
SC069			Active Grid
SC070			Active Grid
SC071			Active Grid
SC072	1/31/2023	10.62	
SC073	1/31/2023	3.84	
SC074	1/31/2023	12.74	
SC075	1/31/2023	7.53	
SC076	1/31/2023	2.65	
SC077	1/31/2023	1.36	
SC078	1/31/2023	2.36	
SC079	1/31/2023	2.62	
SC080	1/31/2023	2.31	
SC081			Native Grid
SC082	1/30/2023	6.68	
SC083	1/30/2023	9.79	
SC084	1/31/2023	2.59	
SC085			Active Grid
SC086			Active Grid

Point Name	Record Date	FID Concentration (ppm)	Comments
SC087			Active Grid
SC088	1/31/2023	5.45	
SC089	1/31/2023	8.86	
SC090	1/31/2023	21.48	
SC091	1/31/2023	9.63	
SC092	1/31/2023	2.94	
SC093	1/31/2023	2.00	
SC094	1/31/2023	2.30	
SC095	1/31/2023	2.62	
SC096			Native Grid
SC097			Native Grid
SC098	1/31/2023	3.18	
SC099	1/30/2023	6.43	
SC100	1/30/2023	9.43	
SC101	1/31/2023	2.35	
SC102	2/1/2023	3.08	
SC103	2/1/2023	7.27	
SC104	1/31/2023	4.42	
SC105	1/31/2023	12.76	
SC106	1/31/2023	20.21	
SC107	1/31/2023	9.68	
SC108	1/31/2023	8.48	
SC109	1/31/2023	6.33	
SC110	1/31/2023	2.12	
SC111	1/31/2023	2.59	
SC112			Native Grid
SC113			Native Grid
SC114	1/31/2023	2.38	
SC115	1/30/2023	5.07	
SC116	1/30/2023	5.17	
SC117	1/31/2023	2.69	
SC118	2/1/2023	3.75	
SC119	1/31/2023	2.95	
SC120	1/31/2023	7.47	
SC121	1/31/2023	14.49	
SC122	1/31/2023	12.22	
SC123	1/31/2023	5.64	
SC124	1/31/2023	14.96	
SC125	1/31/2023	2.01	
SC126	1/31/2023	2.49	
SC127			Native Grid
SC128			Native Grid
SC129	1/31/2023	2.61	

Point Name	Record Date	FID Concentration (ppm)	Comments
SC130	1/30/2023	3.54	
SC131	1/30/2023	2.62	
SC132	1/31/2023	1.58	
SC133	1/31/2023	1.73	
SC135	1/31/2023	3.76	
SC136	1/31/2023	3.95	
SC137	1/31/2023	2.02	
SC138	1/31/2023	6.26	
SC139	1/31/2023	5.67	
SC140	1/31/2023	2.44	
SC141			Native Grid
SC142			Native Grid
SC143	1/31/2023	1.35	
SC144	1/30/2023	3.25	
SC145	1/30/2023	1.72	
SC146	1/31/2023	2.39	
SC147	1/31/2023	0.97	
SC148	1/31/2023	2.07	
SC149	1/31/2023	3.02	
SC150	1/31/2023	1.64	
SC151	1/31/2023	2.58	
SC152	1/31/2023	1.98	
SC153	1/31/2023	2.34	
SC154			Native Grid
SC155			Native Grid
SC156	1/31/2023	1.74	
SC157	1/30/2023	2.77	
SC158	1/30/2023	1.21	
SC159	2/1/2023	1.79	
SC160			Native Grid
SC161	1/31/2023	0.91	
SC162	1/30/2023	2.51	
SC163	1/30/2023	1.42	

Attachment 5

Calibration Logs

Date:	1-30-23 Bryon	CALIBRATION A	Site Name:		
	Brymn C			Soroma	
WEATUED ON	2 3000	Choa	Instrument	TVA 2020	
WEATHER OD	SERVATIONS			The state of the s	
Wind Speed	: МРН	Wind Direction:	=	Barometric Pressure: 30-	% "Hg
Air Temperature:	A _	General Wear Conditio	ther ons: Clew	_	
ALIBRATION I	INFORMATION				
re-monitoring (Calibration Precision Check				
nstrument Seria				Cal Gas Concentration	500ppm
rial 1	Zero Air Reading	Cal Gas Reading	Cal Gas C	oncCal Gas Reading	Response Time (second
2	6	501		7	3
3	0	503		3	2
libration Precisi	ion= Average Difference/Cal	Average Difference:	*Perform recalibration	1 average difference is greater that	in 10
	G , c	= 1009	V6	/500 x 100%	
		= 998	%		
in Sensitivity:					
al 1 : Cour	nts Observed for the Span=	167016	Trial 3:	ts Observed for the Span	173388
		F110	Counts	rs Observed for the Zero	
Count	ers Observed for the Zero=	2110	Counte	13 Onzerved for the Zero:	5001
Count	ers Observed for the Zero= nts Observed for the Span=	171176	Counte	is Observed for the Zero-	5021

Zero Air Reading:

STEEL TOWNSHIP OF THE CONTRACT STEELS OF STREET

Cal Gas Reading:

BACKGROUND CONCENTRATIONS CHECKS

Upwind Location Description:

Reading:

Downwind Location Description:

Reading:

Notes:

Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous speeds exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site meteorological conditions were within the requested alternatives of the LMR requirements on the above mentioned date.

		CALIBRATION AN	ND PERTINEN	IT DATA	
Date:	1-30-23		Site Name:	Sonoma	
Inspector(s):	Andrew :	stone	Instrument:	TVA 2020	*
WEATHER OBS	SERVATIONS			(4)	
Wind Speed:		Wind Direction:	_	Barometric Pressure: 30-06	"Hg
Air Temperature:		General Weath Condition	er ns: Clear	_	
CALIBRATION I	NFORMATION				
Pre-monitoring (Calibration Precision Check				
precision must be Instrument Serial Trial	e less than or equal to 10% of the less than or equal to 10% of th	of the calibration gas value Cal Gas Reading		Cal Gas Concentration: oncCal Gas Reading	500ppm Response Time (secon
2	0	498		Ź	3
3	-0-2	500		0	3
pan Sensitivity:		= 9917)%	/300 X 100 %	
rial 1: Cour	nts Observed for the Span=	142028	Trial 3: Coun	ts Observed for the Span=	140836
Count	ers Observed for the Zero=	3354	Counte	ers Observed for the Zero=	3261
	nts Observed for the Span=		-	6.	
Counte	ers Observed for the Zero=	3285]	(2.5	
st Monitoring Ca	libration Check				ν
ro Air ading:	-0 \ ppm	Cal Gas Reading:	498	opm	· 6
CKGROUND CO	DNCENTRATIONS CHECKS	è			ì
wind Location De	escription:	Entrance Plane	R	Reading: 1. Co.	opm.
wnwind Location	Description:	Plane	R	Reading: としゅ	pm
exc	nd speed averages were ob ceeded 20 miles per hour. I		ithin the previous	24 hours of the monitoring	event. Therefore, site

YES ISHIBIC STEMANTINESS - SALVENING PERSYELLS FROM ENSINE IS COSMO

SURFACE EMISSIONS MONITORING

		SURFACE EMISS			
	1 1	CALIBRATION AF	ND PERTINEN	IT DATA	
Date:	1/30/23 B. 48PCZ		Site Name:	Sonoma	
Inspector(s)	R. yepez		Instrument:	TVA 2020	
WEATHER (OBSERVATIONS			*	,
Wind Spe	eed: 7 MPH	Wind Direction: 5	_ ^	Barometric Pressure: 30-06	"Hg
1	Air	General Weath			
Temperatu	re: _ \$2 °F	Condition	s: Clear	-	
CALIBRATIO	N INFORMATION				
Pre-monitoria	ng Calibration Precision Check			E	
and calculate	alibrate the instrument. Make of the average algebraic different it be less than or equal to 10% of the less than or equal to 10% of	ce between the instrument	treading and the		
Trial	Zero Air Reading	Cal Gas Reading	Cal Gas C	oncCal Gas Reading	Response Time (seconds
1	0.1	502		2	3
3		502		7	3
		= 99 +]%	/500 x 100%	<i>I</i> ₀ ,
pan Sensitivity	y:				
rial 1:	Counts Observed for the Span=	173936	Trial 3: Cour	its Observed for the Span=	172820
Со	unters Observed for the Zero=	514B		ers Observed for the Zero=	
rial 2:	ounts Observed for the Span=				
Cou	unters Observed for the Zero=	5117			
	g Calibration Check		1		
ro Air		Cal Gas			
eading:	-O.\ ppm	Reading	498	ppm	
ACKGROUND	CONCENTRATIONS CHECKS				
wind Location	n Description:	Entrance Plane	i.	Reading: 114	ppm
wnwind Locat	cion Description:	Plane	ı	Reading: 2,2	ррт
	Wind speed averages were ob- exceeded 20 miles per hour. N meteorological conditions wer	lo rainfall had occurred w	ithin the previous	24 hours of the monitorin	g event. Therefore, site

The wind was a fragular as the order of the same of th

		CALIBRATION AND	PERTINEN	IT DATA	
Date:	1/30/23 A. Gomez		Site Name:	Sonoma	
Inspector(s):	A. Gomez		Instrument:	TVA 2020	
WEATHER OB	SERVATIONS			2.	
Wind Speed	: МРН	Wind Direction:		Barometric Pressure: 30.06	Hg
Aii Temperature		General Weather Conditions:	clear	=:	
CALIBRATION	INFORMATION				
Pre-monitoring	Calibration Precision Check				
and calculate th	e average algebraic differen e less than or equal to 10%	a total of three measuremen ace between the instrument n of the calibration gas value			
Trial	Zero Air Reading	Cal Gas Reading	Cal Gas C	oncCal Gas Reading	Response Time (seconds
1	0	501		1	3
3	0,1	504		5	7.
oan Sensitivity:		= 99.49	%	/500 x 100%	
rial 1: Cou	ints Observed for the Span=	132904	i <u>rial 3:</u> Coun	ts Observed for the Span=	129276
Count	ters Observed for the Zero=	3818	Counte	ers Observed for the Zero=	3788
rial 2: Cou	nts Observed for the Span= ers Observed for the Zero=	141072			
	alibration Check				
ero Air eading:	<i>-O</i> \ ppm	Cal Gas Reading:	492	opm	
CKGROUND CO	ONCENTRATIONS CHECKS			ē	
wind Location D	escription:	Entrance Plans	f	Reading: 1,4	ppm
wnwind Location	Description:	Plane	F	Reading: 17	ppm
		oserved to remain below the No rainfall had occurred with			

SURFACE EMISSIONS MONITORING

meteorological conditions were within the requested alternatives of the LMR requirements on the above mentioned date.

				IONS MONI		110
		CALIB	RATION A	ID PERTINE	NT DATA	(00g0)
Date:	1-3	0-23		Site Name:	Sanom	0
Inspector(s):	Don	Choson		Instrument:	TVA 2020	
WEATHER O	BSERVATIONS				36	y:
Wind Spee	ed:		Vind tion: NE	_	Barometric 29	"Hg
Temperatur	Air re: 37	F	General Weath	CLEA	12	
CALIBRATION	INFORMATION					
Pre-monitoring	g Calibration Precisi	on Check				
and calculate t	be less than or equ	nt. Make a total of the ic difference between all to 160% of the calibrate.	the instrument	readina and the c	zero air and the calibration calibration gas as a percent Cal Gas Concentration:	n gas. Record the readings age. The calibration 500ppm
Trial	Zero Air Rea	eding Cal G	Gas Reading	Cal Gas Co	oncCal Gas Reading	Response Time (seconds
1	-0-1	5	07		7	6
2	0		702		i_	3
3			169 491		51	4
Calibration Preci	sion≃ Average Diffe	rence/Cal Gas Conc. 2		*Perform recalibration i	if average difference is greater than (.0
					/500 x 100%	
Span Sensitivity:			-	%		
Trial 1:	unts Observed for t	1115	008	Trial 3:		1/10
			4738	Counts	s Observed for the Span=_	164800
rial 2:	ters Observed for t		122	Counter	s Observed for the Zero=	4838
	nts Observed for th		55 -			
Count	ters Observed for th	ne Zero= 48	<u>u</u>			
ost Monitoring Ca	alibration Check					
ero Air eading:	0.1 ppm		Cal Gas Reading:	419 pp	om	
ACKGROUND CO	DNCENTRATIONS	CHECKS				
owind Location D	escription:	End	Nance ne	Re	ading:	om
ownwind Location	Description	Fla	ne	Re	ading: 1.6 pp	- /

Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous speeds exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site

Notes:

STOR BUSINESS CHANGER - STANDER STORE OF THE STANDERS OF THE STORE OF THE STANDERS OF THE STAN

meteorological conditions were within the requested alternatives of the LMR requirements on the above mentioned date.

1		SURFACE EMISS	IONS MONI	TORING	
		CALIBRATION AN			
Date:	1-30-23	3	Site Name:	Sonoma	
Inspector(s):	Bryom O	ichoo	Instrument:	TVA 2020	
WEATHER C	DBSERVATIONS			v.	
Wind Spe	ed:MPH	Wind Direction: NE	_	Barometric Pressure: 29	"Hg
Temperatu	Air re:3.7 °F	General Weathe Conditions	CLEAR	_	
CALIBRATIO	N INFORMATION				
Pre-monitorin	ng Calibration Precision Check				
and calculate i	librate the instrument. Make a the average algebraic difference to be less than or equal to 10% of the less than or equal to 10% of the less than ber:	ce between the instrument	reading and the c	zero air and the calibration calibration gas as a percento Cal Gas Concentration:	gas. Record the readings age. The calibration 500ppm
Trial	Zero Air Reading	Cal Gas Reading	Cal Gas Co	onc -Cal Gas Reading	Response Time (seconds)
1 2	10,	501		1	5
3	-0.1	560		6	6
1	0.1	500		8	6
/		Average Difference:		1	
Span Sensitivity:	ision= Average Difference/Cal	= 100%- = 99.74	.3	/500 x 100%	
Trial 1:			Trial 3:		
	ounts Observed for the Span=			s Observed for the Span-	47372
Cour	nters Observed for the Zero=	4217	Counter	s Observed for the Zero=	4212
Cod	unts Observed for the Span=_ nters Observed for the Zero=	147976			
Post Monitoring (Calibration Check				
Zero Air Reading:	0. ppm	Cal Gas Reading	501 pp	orn	_
BACKGROUND C	ONCENTRATIONS CHECKS				
Upwind Location D	Description:	Entrant Flage	Re	eading: / · £ pp	m
Downwind Locatio	in Description:	Flane	Re	eading:pp	m
Notes: W	vind speed averages were observeded 20 miles per hour. No	erved to remain below the o rainfall had occurred with	alternative reque	sted 10 miles per hour and 4 hours of the monitoring e	no instantaneous speeds vent. Therefore, site

SYES DIEGO SCHONE CONTROL - CONTROL STONE STONE STONE STONE - TONE - TON

		SURFACE EMI	SSIONS MONIT	TORING	
		CALIBRATION	AND PERTINEN	NT DATA	
Date:	(-30-73		Site Name:	sonoma	
Inspector(s)	Emmanux)	Paz	Instrument:	TVA 2020	
WEATHER OF	SSERVATIONS			100	
Wind Speed	d: MPH	Wind Direction: NE	<u> </u>	Barometric Pressure: 29	"Hg
Ai Temperature	23	General Wea Conditi	other		
CALIBRATION	INFORMATION				
Pre-monitoring	Calibration Precision Check				
ana calculate th	brate the instrument. Make a ne average algebraic difference ne less than or equal to 10% of al Number:	e between the instrume	ent reading and the c	zero air and the calibration calibration gas as a percent Cal Gas Concentration:	n gas. Record the readings age. The calibration 500ppm
Trial	Zero Air Reading	Cal Gas Reading		oncCal Gas Reading	Response Time (seconds)
1	<u>Q</u>	501		<u> </u>	Z
3	- Q	4aq 302	t		7
J 1	V	000	_ l 2		2
Span Sensitivity:	sion= Average Difference/Cal G	Gas Conc. X 100% = 1009 = 111	%- <u>1.3</u>	if average difference is greater than 1 $\sqrt{500 imes 100\%}$	
Trial 1:	nts Observed for the Span=	82032	Trial 3:	s Observed for the Span=	184000
Count	ters Observed for the Zero=	1910	Counter	s Observed for the Span= _ s Observed for the Zero=	4539
<u>Trial 2:</u> Cour	nts Observed for the Span=	184964			
Counte	ers Observed for the Zero=	1741			
Post Monitoring Ca	libration Check			9	
Zero Air Reading:	О ррт	Cal Gas Reading:	500	mo	
BACKGROUND CO	INCENTRATIONS CHECKS	nedding.	P	אווו	
Jpwind Location De		Entranc	€ Re	eading: /- S pp	om
Downwind Location	Description:	Fine	_ Re	eading: 1.5 pp	om
lotes: Wir	nd speed averages were obse eeded 20 miles per hour. No	rved to remain below t rainfall had occurred v	he alternative reque: vithin the previous 2	sted 10 miles per hour and 4 hours of the monitoring	I no instantaneous speeds event Therefore, site

STEE DESIGNATION = SACRETE RESTANCE DESIGN DESIGN - THE TOTAL STEEL STEE

i		CALIBRATION A	ND PERTINE	NT DATA	
Date:	1-30 23		Site Name:	sonoma	
Inspector(s):	f. Warren	<u>*</u>	Instrument:	TVA 2020	
WEATHER O	DBSERVATIONS			90	
Wind Spee	ed: MPH	Wind Direction: N		Barometric 29	. % "Hg
Temperatur	4ir re:	General Weath Condition	ner 37 ((clear)	3. 8
CALIBRATION	N INFORMATION				1
Pre-monitoring	g Calibration Precision Check				
ana calculate ti	librate the instrument. Make the average algebraic differer be less than or equal to 10% ial Number: 438	nce between the instrument of the calibration gas value	treading and the	g zero air and the calibratio calibration gas as a percent Cal Gas Concentration	tage. The calibration
Trial					2.5500,550
Trial 1	Zero Air Reading	Cal Gas Reading		ConcCal Gas Reading	Response Time (second
2	0.0	498	2		i
3	0	Fol	1		2
)		Average Difference:		3	1
Span Sensitivity:		= 100%- = 19.88	B _%	_/500 x 100%	
Trial 1:	100		Trial 3;		
Cou	unts Observed for the Span=	124244		nts Observed for the Span=	124323
Coun	nters Observed for the Zero=	7993	Counte	ers Observed for the Zero=	4170
Trial 2:	unts Observed for the Span=	The section of the section		13 00001 00	710-1
Count	ters Observed for the Zero=	3958			
Post Monitoring C	alibration Check				
Zero Air	.	Cal Gas			
Reading:	− Ø. [ppm	Reading:	500	opm	
BACKGROUND CO	ONCENTRATIONS CHECKS	NA TOTAL SECTION			
Upwind Location D	escription:	Entranc	€ R	Reading: 1.6 p	pm
Downwind Location	n Description:	Flure	es R	Reading:	pm
Notes: Wi	ind speed averages were ob-	served to remain below the	alternative requal thin the previous :	ested 10 miles per hour and 24 hours of the monitoring	d no instantaneous speeds events: Therefore, site

STEEL CONSTRUCTION - SAME STANDARD STANDARD STANDARD STANDARD

SURFACE EMISSIONS MONITORING

Date:)		A ME COMMONO.	2.0.0.0		
Inspect	<i>t</i> .		ACE EMISSION:			
Inspect		CALIBI	RATION AND P	ERTINENT	DATA	
	1.31-	23		Name: 5	onoma	
1,0,5,0,7,1	or(s): Rasho	ed Warre	Inst	rumentT	VA 2020	
WEAT	IER OBSERVATIONS				•	,
Win	d Speed:	W MPH Directi	ind on: NE		arometric Pressure: 29.9	"Hg
Temp	Air erature: 37	_°F	General Weather Conditions:	ilkar		
CALIBRA	ATION INFORMATION	1				
Pre-mon	itoring Calibration Preci	ision Check				
ana caici	ilate the average algeb	nent. Make a total of the raic difference between qual to 10% of the calibro	the instrument readin	alternating zero g and the calibr	air and the calibration ation gas as a percento	gas. Record the readings age. The calibration
Instrume	nt Serial Number:	5419		Ca	l Gas Concentration	500 pp m
Trial	Zero Air R	eading Cal G	as Reading	Cal Gas Conc0	Cal Gas Reading	Response Time (seconds)
2	8.0	5	01			3
3	0.0	7	44			3
		7				
1		Average	Difference	2		
		8	= 100%- = 99.88%	/500	х 100%	
Span Sensit	ivity:					
Trial 1:	Counts Observed for	r the Span= 1863	Trial 3	: Counts Ob:	served for the Span=	186366
	Counters Observed for	r the Zero= 503	3	Counters Ob	served for the Zero=	5513
	Counts Observed for	the Span= 186	896			
riai Z;		the Zero= 550	o			
Trial 2:	Counters Observed for	the zero=				i
	Counters Observed for ring Calibration Check	the zero=				
Post Monito		the zero=				
Post Monito Zero Air	ring Calibration Check		Cal Gas	94		
Post Monito Zero Air Reading:	ring Calibration Check	m	Cal Gas Reading:	19 ppm		-
Post Monito Zero Air Reading:	ring Calibration Check O. pp ND CONCENTRATION	m IS CHECKS	Reading: 4	19 _ppm		-
Post Monito Zero Air Reading: BACKGROU	ring Calibration Check	m IS CHECKS	Reading: 4	19 ppm Readin	g: <u> / . /</u> pp	m
Post Monito Zero Air Reading: BACKGROU	ring Calibration Check O. pp ND CONCENTRATION	m IS CHECKS				m m

4			CALIBRATIO	N AND PERTINE	NT DATA	
)	Date:	1.31-23	V	Site Name:	sonoma	
	Inspector(s):	Don (Subson	Instrument:	TVA 2020	
	WEATHER O	BSERVATIONS				*
	Wind Spee	d: 3 M	Wind PH Direction:	ϵ	Barometric 29.6	"Hg
	Temperatur	Air e: 37	General W Con	Veather ditions: CCEA	<u>e</u>	
	CALIBRATION	INFORMATION				
	Pre-monitoring	Calibration Precision	Check			
	ana calculate ti	ne average algebraic be less than or equal	Make a total of three measudifference between the instruction of the calibration gas	ment reading and the	g zero air and the calibration calibration gas as a percent Cal Gas Concentration:	n gas. Record the readings age. The calibration 500ppm
ŀ	Trial	Zero Air Read	ng Cal Gas Readin	g	oncCal Gas Reading	Response Time (second
1	1	-0	500	Ò	The same of the same	3
$\sim t$	3	-0.1	300	1		3
c	alibration Preci	sion≂ Average Differe	Average Differen ince/Cal Gas Conc. X 100% = 1	-	if average difference is greater than 1 $/500 \times 100\%$	0
1			= 99.	44%		
-	ial 1:			7-1-1-2		
		unts Observed for the	Span= 133436	Trial 3:	ts Observed for the Span= _	135472
77.4	Coun	ters Observed for the	Zero= 4421	Counte	rs Observed for the Zero=	4379
110	al 2: Cou	ints Observed for the	Span= 135440			
	Coun	ters Observed for the	Zero= 4375	-		
Pos	st Monitoring C	alibration Check				
Zer	o Air		Cal Gas			
Rea	ding:	ррт	Reading	500	pm	
BAG	CKGROUND CO	ONCENTRATIONS C	HECKS			
Upv	vind Location D	escription:	Entran	CE R	eading: LL pp	om
Dow	nwind Location	n Description.	tulnan	R	eading: 1. 6 pp	om
Note		ind speed averages w ceeded 20 miles per	rere observed to remain belo nour. No rainfall had occurre	w the alternative reque	ested 10 miles per hour and 14 hours of the monitoring e	no instantaneous speeds event. Therefore, site

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SURFACE EMISSIONS MONITORING

		CALIBRATION /	SSIONS NIONTI AND PERTINEN		
Date:	31-23		Site Name:	sonoma	
Inspector(s): An	drew S	tone	Instrument:	TVA 2020	
WEATHER OBSERVATI	ONS		· ·	<u>\$</u> 8	77
Wind Speed:	MPH	Wind Direction:	_	Barometric Pressure: 29. 9	¶ "Hg
Air Temperature: 34	°F	General Wea Conditio	ther ons:	_	
CALIBRATION INFORM	ATION				
Pre-monitoring Calibratio	п Precision Check				
precision must be less tha	r algebraic difference in or equal to 10% of the	between the instrume	nt reading and the co	gero air and the calibration dibration gas as a percent Cal Gas Concentration:	n gas. Record the readings age. The calibration 500ppm Response Time (seconds)
2 3	8.1	500	j		2
Calibration Precision= Aver	age Difference/Cal Ga	Average Difference: s Conc. X 100% = 1009	(-	average difference is greater than 1	0
Span Sensitivity: Trial 1:		U			
	ved for the Span=	35568	Trial 3: Counts	Observed for the Span=_	141580
	ved for the Zero=	3984	Counters	Observed for the Zero=	3977
Trial 2: Counts Observ	ved for the Span=	139532	8		
Counters Obser	ved for the Zero=	1005			
Post Monitoring Calibration	Check				
Zero Air Reading:	ppm	Cal Gas Reading:	_500 pp	m	
BACKGROUND CONCENTR	ATIONS CHECKS			41	
Upwind Location Description	_{-€	Entrance	Rea	iding: 1.6 pp	om
Downwind Location Descripti	on:	tione	Rea	ding: 1.6 pp	om
exceeded 20	miles per hour. No ri	ainfall had occurred w	ithin the previous 24	ted 10 miles per hour and hours of the monitoring of requirements on the abo	no instantaneous speeds event. Therefore, site ove mentioned date.

SVER DUSCOS CONTRACTOR - STURESTE PROGRESSION SONO - FOR THE STUDIES OF THE STUDI

		SURFACE EMISSI CALIBRATION AN			
Date:	1-31-2	3	Site Name:	SGnom	n
Inspector(s)	E. PAZ		Instrument:	TVA 2020	
WEATHER OBSE	RVATIONS			×	
Wind Speed:	S MPH	Wind Direction:	> -	Barometric 9	"Hg
Air Temperature:	<u>S6</u> °F	General Weathe Conditions	Sunn	9	
CALIBRATION IN	FORMATION			f-	
Pre-monitoring Ca	llibration Precision Check				
and calculate the operation of the least terms of t	average algebraic differen less than or equal to 10% (a total of three measuremence between the instrument of the calibration gas value.	reading and the d	alibration gas as a percent	tage. The calibration
Instrument Serial i	1010			Cal Gas Concentration:	500ppm
Trial 1	Zero Air Reading	Cal Gas Reading	Cal Gas C	oncCal Gas Reading	Response Time (seconds
2	- 6.1	448		2	5
3	Ó	500		0	4
		= 998	<u>, 6</u>	/500 x 100%	
pan Sensitivity: rial 1:			Trial 3:		
Count	ts Observed for the Span=	154524		ts Observed for the Span=	152936
	rs Observed for the Zero=	3044	Counte	ers Observed for the Zero=	3697
rial 2: Count	s Observed for the Span=	154008			
Counter	rs Observed for the Zero=	3157			
ost Monitoring Cali	bration Check				
ero Air		Cal Gas	191		
eading:	ON ppm	Reading:	497	opm	
ACKGROUND COM	NCENTRATIONS CHECKS	•			
wind Location Des	scription:	Entrance	ı	Reading:	ppm
wnwind Location (Description:	Entrance Plare	ı	Reading:	ppm
exce	eded 20 miles per hour.	oserved to remain below the No rainfall had occurred with re within the requested alte	thin the previous	24 hours of the monitorin	g event. Therefore, site

PROFES CONTRACTOR - Supplement Person to the Europe of The Europe

		SURFACE EMISSI CALIBRATION AN			
Date:	1-31-2		Site Name:	Sanom	.
Inspector(s	R. YEPEZ		Instrument:	TVA 2020	
WEATHER	OBSERVATIONS			Ŷ	
Wind Sp	peed:MPH	Wind Direction:	_	Barometric Pressure: 29	"Hg
Tempera	Air ture:°F	General Weather Conditions	sunny	-	
CALIBRATI	ON INFORMATION		1		
Pre-monitor	ring Calibration Precision Check				
ond calculat precision mu	Calibrate the instrument. Make a te the average algebraic difference ust be less than or equal to 10% of	between the instrument i the calibration gas value.		calibration gas as a percent	age. The calibration
Instrument S	Serial Number: 541	<u> </u>		Cal Gas Concentration:	500ppm
Trial 1	Zero Air Reading	Cal Gas Reading	Cal Gas C	oncCal Gas Reading	Response Time (seconds)
2	0	499		Ĭ	4
3	20-1	501			5
Calibration P	recision= Average Difference/Cal G		, 3	/500 x 100%	
Span Sensitiv	ítv:	7 7			
Trial 1:			Trial 3:	No Observed for the Cons	195552
	Counts Observed for the Span=			ts Observed for the Span=	
rial 2:	ounters Observed for the Zero=	4399	Counte	ers Observed for the Zero=	4374
	Counts Observed for the Span=_	147760			
С	ounters Observed for the Zero=	4400			
ost Monitoria	ng Calibration Check				
ero Air leading:	nnm	Cal Gas Reading:		nam	
ŭ	ppm	Neaurig.		ppm	
ACKGROUN	D CONCENTRATIONS CHECKS	1			
pwind Location	on Description: $\frac{\zeta}{\zeta}$	intrance .	II.	Reading:	ppm
ownwind Loc	ation Description:	lare	1	Reading: (C	ppm
otes:	Wind speed averages were obse exceeded 20 miles per hour. No meteorological conditions were	rainfall had occurred wit	thin the previous	24 hours of the monitoring	g event. Therefore, site

วนางรางที่เพณฑ์เพราะ = ตัวเพลากเกา โลกสต์ และกรกระและครป เป็นกรหล

	SURFACE EMISS	IONS MONIT	ORING	
	CALIBRATION AN	ID PERTINEN	T DATA	
Date: 1-31-23		Site Name:	Sonon	ia
Inspector(s): A. Gom	ez	Instrument:	TVA 2020	
WEATHER OBSERVATIONS			9.	
Wind Speed:SMPH	Wind Direction:	9	Barometric Pressure: 29	"Hg
Air 5 6 *F	General Weathe Condition	er s:_Sunny	·	
CALIBRATION INFORMATION		(
Pre-monitoring Calibration Precision Chec	k			
Procedure: Calibrate the instrument. Mak and calculate the average algebraic differ precision must be less than or equal to 109	ence between the instrument	reading and the c	zero air and the calibration alibration gas as a percent	n gas. Record the readings age. The calibration
Instrument Serial Number:	67		Cal Gas Concentration	S00ppm
Trial Zero Air Reading	Cal Gas Reading	Cal Gas Co	ncCal Gas Reading	Response Time (seconds
2 0	140	3		
3	505	5	_	
Calibration Precision= Average Difference/(Average Difference:	*Perform recallibration i	f average difference is greater than !	0.0
Span Sensitivity:	= 99,4	<u> </u>	′500 x 100%	
Trial 1:		Trial 3:		4
Counts Observed for the Spar	- 168284		s Observed for the Span=	172640
Counters Observed for the Zero	5086	Counter	s Observed for the Zero=	5041
Counts Observed for the Span	177808			
Counters Observed for the Zero	4993			
Post Monitoring Calibration Check				
Zero Air Reading: — O (ppm	Cal Gas Reading:	493	om	
BACKGROUND CONCENTRATIONS CHECK	KS			
Upwind Location Description:	Entrance Plare	Re	eading: LEp	pm
Downwind Location Description:	Place	Re	eading:	pm

Notes:

Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous speeds exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site meteorological conditions were within the requested alternatives of the LMR requirements on the above mentioned date.

meteorological conditions were within the requested alternatives of the LMR requirements on the above mentioned date.

	CALIBRA	ATION AND PER	TINENT DAT	A	
Date: 1 ~ 31	-23	Site N	ame: 5	onoma	
Inspector(s): A.5	TONE	Instru			
WEATHER OBSERVATION	S			10 10	45
Wind Speed:	Win MPH Direction	11 / /	Barom Pres	netric sure: 79	"Hg
Air Temperature: 36	Ge *F	neral Weather Conditions: _ 与 U	mny		
CALIBRATION INFORMATI	ON		ı		
Pre-monitoring Calibration P	recision Check				
and calculate the average alg	rument. Make a total of three gebraic difference between th r equal to 10% of the calibrati	e instrument reading o	ernating zero air o and the calibration	and the calibration go n gas as a percentage	as: Record the read The calibration
Instrument Serial Number:	1223	71.	Cal Gas	Concentration:	500ppm
Trial Zero A	ir Reading Cal Gas		al Gas ConcCal G	as Reading F	Response Time (seco
2 -0	501				5
3 6	5	01			5
anoration recession - Average	Difference/Cal Gas Conc. X 1	100%-	/500 x 10	0%	
pan Sensitivity:	= '	415%			
rial 1:	for the Span= 1781	44 Trial 3:	Counts Observe	ed for the Span=	80404
Counters Observed	for the Zero= 46 3	0	Counters Observ	ed for the Zero=	4727
rial 2: Counts Observed					
Counters Observed	for the Zero= 476	il			
ost Monitoring Calibration Che	rck				
ro Air ading:		al Gas	>		
		eading: 50	C ppm		
CKGROUND CONCENTRAT wind Location Description:	0 1			1 (0	
	Place	rcc	Reading:		
wnwind Location Description:	riare		Reading:	10 ppm	
Wind speed ave exceeded 20 mi	rages were observed to rema les per hour. No rainfall had	ain below the alternati occurred within the pi	ve requested 10 r revious 24 hours o	miles per hour and no of the monitoring eve	o instantaneous spe ent. Therefore, site

STEE DESTRUCTIONS - SUREMER PETERS SUBJECT TO STEE - THE - FILE

SURFACE EMISSIONS MONITORING

			CALIBRATION A			
	Date:	1-2- 2	-1-23	Site Name:	Sonoma	
	Inspector(s)	Andra San		Instrument:	TVA 2020	
	WEATHER (DBSERVATIONS			*	
	Wind Spe	ed: <u> </u>	Wind Direction: _ W	===	Barometric Pressure: 30.26	Hg "Hg
	Temperatu	Air 33	General Weathe Condition	er s: <u>mos</u> ziyal	wody	
	CALIBRATIO	N INFORMATION			,	
	Pre-monitorir	ng Calibration Precision Check				
	and carculate	librate the instrument. Make the average algebraic different t be less than or equal to 10% rial Number:	nce between the instrument	reading and the c	zero air and the calibratic alibration gas as a percen Cal Gas Concentration	on gas. Record the readings tage. The calibration 500ppm
	Trial	Zero Air Reading	Cal Gas Reading	I Cal Con Co		
)	1	-0.1	542	Cal Gas Co	ncCal Gas Reading	Response Time (seconds)
	3	-0.0	500 449	0		5/
		ision= Average Dıfference/Ca	= 100%- = 99.%	<u> </u>	′500 x 100%	
s	pan Sensitivity:		(10			
- 2	rial 1:	ounts Observed for the Span=	142388	Trial 3: Count:	s Observed for the Span=	146884
1	Cou	nters Observed for the Zero=	3020	Counter	s Observed for the Zero=	2983
1	Contraction,	unts Observed for the Span=	142984			
_	Cour	nters Observed for the Zero=	3004			
Ро	st Monitoring (Calibration Check				
-	ro Air ading:	-0.1 ppm	Cal Gas Reading:	497 pp	om	
ВА	CKGROUND C	ONCENTRATIONS CHECKS				
Up	wind Location (Description:	Entrance Place	Re	ading: <u>[,8</u> p	pm
Dov	wnwind Locatio	on Description:	Plane	Re	ading: Z.O_p	pm
Not	e	/ind speed averages were ob xceeded 20 miles per hour. I eteorological conditions wer	No rainfall had occurred with	nin the previous 24	hours of the monitoring	event Therefore site

STEP - Find - miner transment remains - continued and the

1		SURFACE EMIS	SIONS MONI	TORING	
		CALIBRATION A	ND PERTINE	NT DATA	
Date:	2-1-23		Site Name:	Sohome	
Inspector	2-1-23 (s): Emmanuel p	47	Instrument:	TVA 2020	
WEATHE	R OBSERVATIONS			y,	
Wind S	peed: 4 MPH	Wind Direction:		Barometric Pressure: 30.20	Hg
_	Air 33	General Weath		i. L	
Tempera	ature: 33 °F	Condition	ns: mostlycl	oucly	
CALIBRAT	ION INFORMATION				
Pre-monito	oring Calibration Precision Check				
precision m	Calibrate the instrument. Make te the average algebraic difference ust be less than or equal to 10% Serial Number:	nce between the instrumen of the calibration gas value	t reading and the o	zero air and the calibration gas as a percential calibration gas as a percential Cal Gas Concentration:	tage. The calibration
					500ppm
Trial 1	Zero Air Reading	Cal Gas Reading	Cal Gas Co	oncCal Gas Reading	Response Time (seconds)
2	-0.1	499	1		2
3	-0.1	500	0		4
Span Sensitivi	recision= Average Difference/Ca		- <u>6</u>	/500 x 100%	
Trial 1:			Trial 3:		
	Counts Observed for the Span=	175564	Count	s Observed for the Span=	177056
Trial 2:	ounters Observed for the Zero=	4790	Counter	rs Observed for the Zero=	4845
	Counts Observed for the Span≃	177776			<u>.</u>
C	ounters Observed for the Zero=	4836			
Post Monitorin	ng Calibration Check				
Zero Air		c.l.c			
Reading:		Cal Gas Reading:	504 P	pm	
BACKGROUNI	O CONCENTRATIONS CHECKS				
Upwind Locatio	on Description:	Entrance	Re	eading: <u>(8</u> p	pm
Downwind Loca	ation Description:	Cntrance Mare	Re	eading: Z,Op	1
Notes:	Wind speed averages were ob exceeded 20 miles per hour. I meteorological conditions wer	No rainfall had occurred wi	thin the previous 2	sted 10 miles per hour and 4 hours of the monitoring	d no instantaneous speeds event. Therefore, site

STOR DOLLAR STEWNSTONE - STEWNER POTENTIAL PROPERTY OF THE PRO

7			SURFACE EMIS	SIONS MONI	TORING	
- 1			CALIBRATION A			
	Date:	2-1-23 Bryan ochor		Site Name:	Sonoma	
ŀ	nspector(s):	Bryan ochor		Instrument:	TVA 2020	
	WEATHER OB	SERVATIONS			£	
	Wind Speed	МРН	Wind Direction:	_	Barometric Pressure: 30-2	⊘ "Hg
	Ai Temperature		General Weath Condition	ner ns: mostly	cloucly	
c	ALIBRATION	INFORMATION				
Pi	re-monitoring	Calibration Precision Check				
pr	ia calculate th	orate the instrument. Make of e average algebraic difference le less than or equal to 10% of Il Number:	ce between the instrumen	treading and the	g zero air and the calibraticalibration gas as a percer Cal Gas Concentration:	itage. The calibration
Tri	al	Zero Air Reading	Cal Gas Reading	Cal Gas C	oncCal Gas Reading	Response Time (seconds)
) [1	0	499	/	oner day odd Hedding]	(Caponac Time (seconds)
\vdash	2	-0.1	499			5
-	3	0	500)	5
		ion= Average Difference/Cal		- <u>6</u>	/500 x 100%	
Tria	Sensitivity:			7:12		
1		nts Observed for the Span=	17/120	Trial 3: Coun	ts Observed for the Span=	168104
	Count	ers Observed for the Zero=	4914	Counte	rs Observed for the Zero=	~4897
Trial		nts Observed for the Span=	171288			
_	Count	ers Observed for the Zero=	4941			
Post	Monitoring Ca	libration Check				4
Zero . Readi		Oil ppm	Cal Gas Reading:	493	pm	
васк	GROUND CO	NCENTRATIONS CHECKS				
Upwir	nd Location De	escription:	Parancz	R	eading: 4.8	opm
Down	wind Location	Description:	Parc	R	eading: 2,0	
Notes	exc	nd speed averages were obs eeded 20 miles per hour, N teorological conditions were	o rainfall had occurred wi	thin the previous 2	24 hours of the monitoring	event Therefore, site

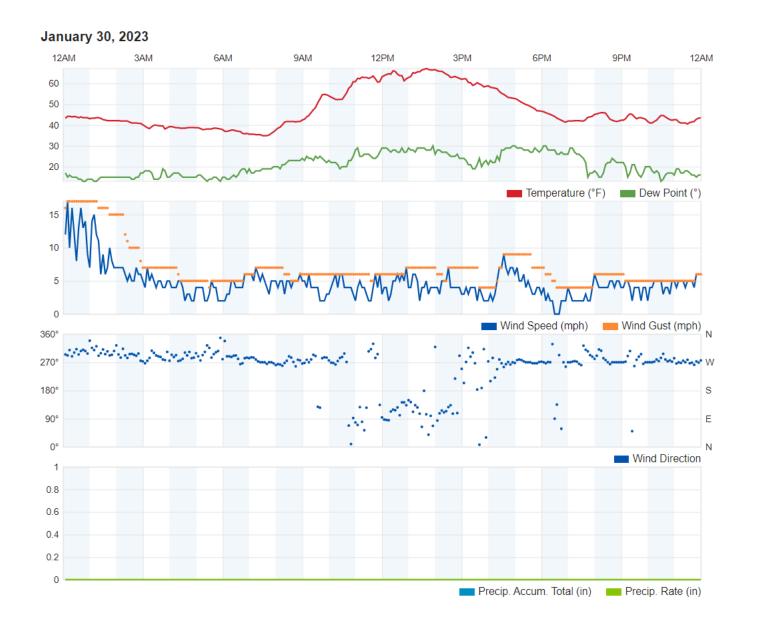
SYS DIGGES CHANTER & SECONDE STAND IN THE STAND OF THE ST

SURFACE EMISSIONS MONITORING					
CALIBRATION AND PERTINENT DATA					
Date:	2/9/23		Site Name:	Sonoma	
Inspector(s):	E. PAZ		Instrument:	TVA 2020	
WEATHER OBS	SERVATIONS			ě	
Wind Speed:	V MPH	Wind Direction:	_	Barometric Pressure:	O "Hg
Air Temperature:	<u>44</u> %	General Weathe Conditions	Mostly	Sunny	
CALIBRATION I	NFORMATION				
Pre-monitoring (Calibration Precision Check				
and calculate the	e average algebraic differer e less than or equal to 10%	a total of three measureme, nee between the instrument of the calibration gas value.	reading and the d	zero air and the calibrationalibration gas as a percention gas as a concentration:	n gas. Record the readings tage. The calibration 500ppm
Trial	Zero Air Reading	Cal Gas Reading	I Cal Gas Co	oncCal Gas Reading	Response Time (seconds)
1	-0.1	498	2	one. Car das reading!	sesponse time (seconds)
2	0.0	499			5
3	-0.1	500		5	4
		= 100%-	%	/500 x 100%	*
Span Sensitivity: Trial 1:			Trial 3:		
Cour	nts Observed for the Span=	136340		s Observed for the Span=	139340
Count	ers Observed for the Zero=	4579	Counter	rs Observed for the Zero=	4426
	its Observed for the Span=	138480			
Counte	ers Observed for the Zero=	4458			-
Post Monitoring Ca	libration Check				
Zero Air Reading:	О	Cal Gas Reading:	499 .	pm	
ACKGROUND CO	NCENTRATIONS CHECKS	i			
pwind Location De	scription:	EntrancE FLARE	Re	eading: 1.5	ppm
ownwind Location	Description:	FLARE	Re	eading: 1.7 p	ppm
Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous speeds exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site meteorological conditions were within the requested alternatives of the LMR requirements on the above mentioned date.					

STEEL STATE CONTROLL STATE STATES STATES STATES STATES

Attachment 6

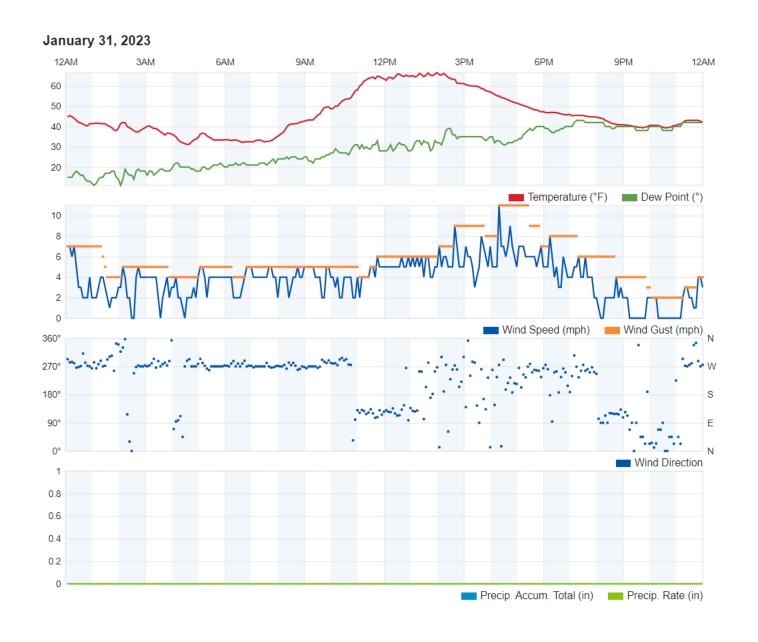
Weather Data



First Quarter 2023

LMR Instantaneous Weather Data for January 30, 2023

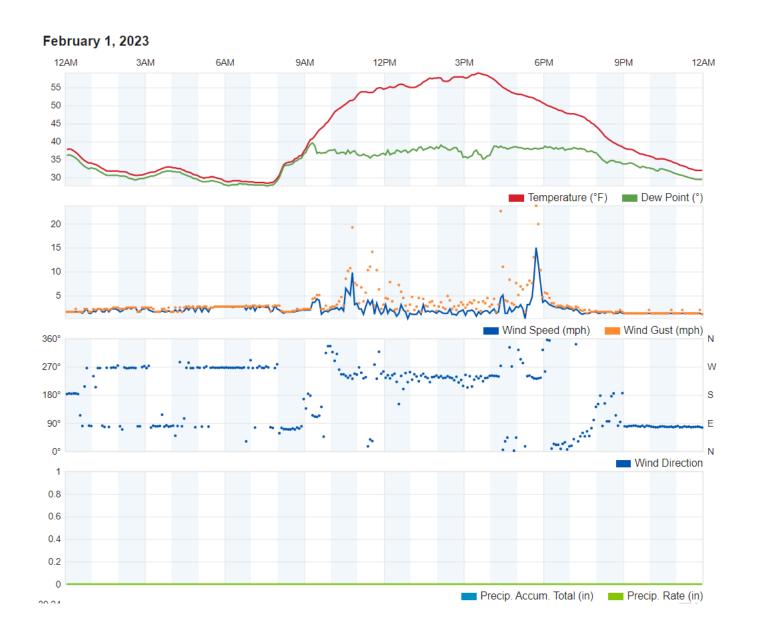
Sonoma Central Landfill, Petaluma, California



First Quarter 2023

LMR Instantaneous Weather Data for January 31, 2023

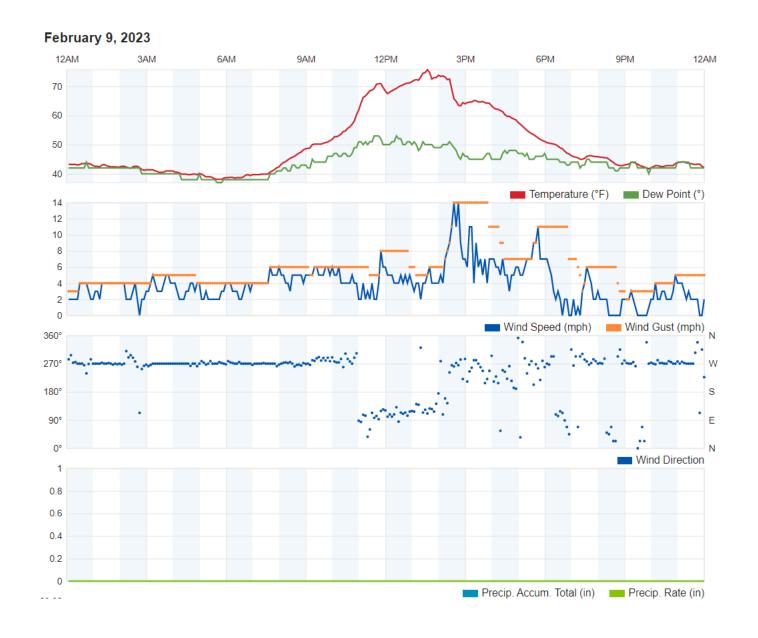
Sonoma Central Landfill, Petaluma, California



First Quarter 2023

LMR Instantaneous Weather Data for February 1, 2023

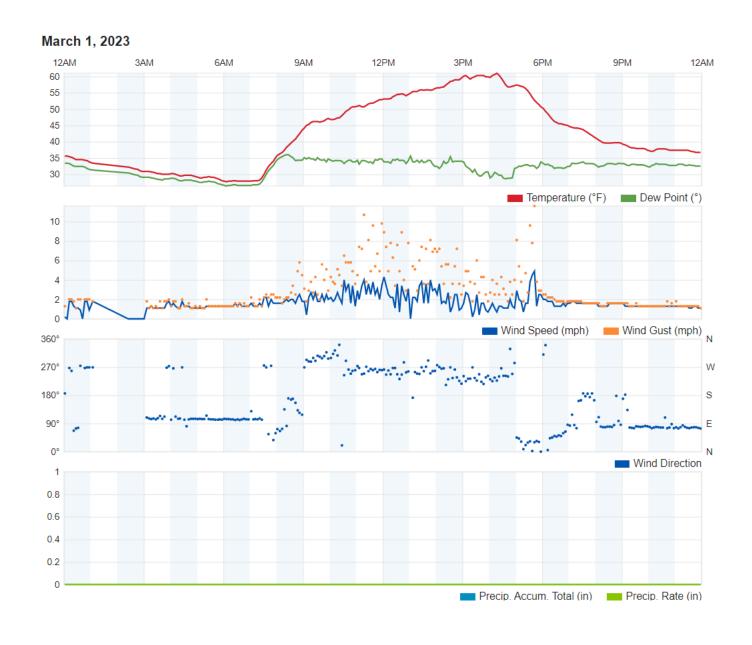
Sonoma Central Landfill, Petaluma, California



First Quarter 2023

LMR Instantaneous Weather Data for February 9, 2023

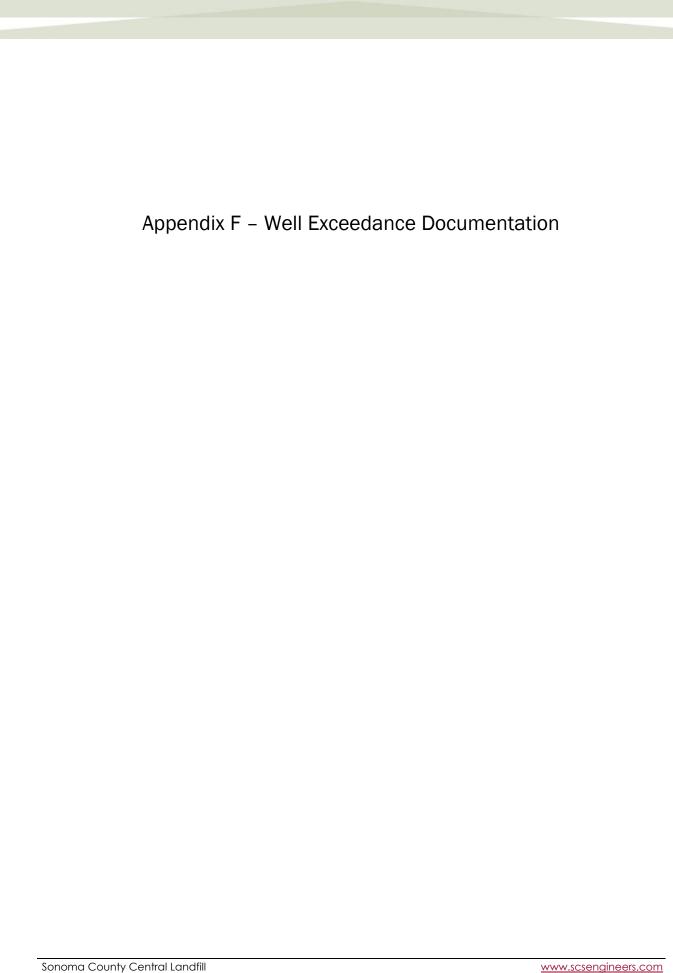
Sonoma Central Landfill, Petaluma, California



First Quarter 2023

LMR Instantaneous Weather Data for March 1, 2023

Sonoma Central Landfill, Petaluma, California



SCS FIELD SERVICES

August 29, 2023 File No. 07221077.00

Mr. Derek Cheney Republic Services – Sonoma Central Landfill 500 Mecham Road Petaluma, California 95492

Subject:

Sonoma Central Landfill - Petaluma, California

Landfill Methane Rule (LMR) and New Source Performance Standards (NSPS)

Surface Emissions Monitoring for Second Quarter 2023.

Dear Mr. Cheney:

SCS Field Services (SCS) is pleased to provide the Republic Services, with the enclosed report summarizing the surface emissions monitoring services provided at the Sonoma Central Landfill (Site) during the second quarter 2023. This report includes the results of surface scan, component emissions and blower/flare station emissions monitoring for the Site for this monitoring period.

SCS appreciates the opportunity to be of assistance to Republic Services on this project. As you review the enclosed information, please contact Michael Flanagan at (510) 363-7796 or Whitney Stackhouse at (209) 338-7990 if you have any questions or comments.

Sincerely,

Whitney Stackhouse Project Manager

SCS Field Services

Michael Flanagan Project Manager SCS Field Services

Encl.

Sean Bass, SCS Field Services Art Jones, SCS Field Services

Sonoma Central Landfill

Landfill Methane Rule (LMR) and New Source Performance Standards (NSPS) Surface Emissions Monitoring

Second Quarter 2023

Presented to:



Mr. Derek Cheney Republic Services – Sonoma Central 500 Mecham Road Petaluma, California 94952

SCS FIELD SERVICES

File No. 07221078.00 Task 01 | August 29, 2023

SCS FIELD SERVICES 4730 Enterprise Way Suite A Modesto, CA 95356

Sonoma Central Landfill

Landfill Methane Rule (LMR) and New Source Performance Standards (NSPS) Surface Emissions Monitoring Second Quarter 2023

INTRODUCTION

This letter provides results of the April 24, 25 and May 2, 3, 10, 12, 17 and 18, 2023, LMR and NSPS landfill surface emissions monitoring (SEM) performed by SCS Field Services (SCS) at the subject site. All work was performed in accordance with our approved Work Scope dated December 23, 2020, and the LMR requirements.

The Sonoma Central Landfill is an active organic refuse disposal site. By way of background, organic materials buried in a landfill decompose anaerobically (in the absence of oxygen) producing a combustible gas which contains approximately 50 to 60 percent methane gas, 40 to 50 percent carbon dioxide, and trace amount of various other gases, some of which are odorous. The Sonoma Central property contains a system to control the combustible gases generated in the landfill.

SUMMARY AND CONCLUSIONS

As stipulated in LMR, if uncorrectable exceedances within the 10-day limitation are detected or emissions are discovered during an inspection by Regulatory Agencies, the landfill must perform monitoring on a 25-foot pathway on a quarterly basis for active disposal sites. Upon completion of four consecutive SEM events without an uncorrectable exceedance of the 25 ppmv or 500 ppmv standards, other than non-repeatable momentary readings, the landfill may perform the monitoring on a 100-foot spacing on an annual basis for closed landfills or quarterly for active disposal sites. Therefore, based on the previous monitoring events, in which exceedances were observed, the monitoring at the Sonoma Central Landfill was performed on 25-foot pathways in accordance with the LMR.

On April 24, 25 and May 2, 3, 10, 12, 17 and 18, 2023, SCS performed second quarter 2023 SEM as required by the Bay Area Air Quality Management District (BAAQMD). Instantaneous surface emissions monitoring results indicated that twenty-two (22) locations exceeded the 500 ppmv maximum concentration during the initial monitoring event (Table 1 in Attachment 3). The required first 10-day (LMR/NSPS) and 30-day (NSPS) follow-up monitoring indicated that the location had returned to below regulatory compliance limits following system adjustments and remediation (well field adjustments and installation of new bentonite plugs) by SCS personnel. Based on these monitoring results no additional follow up testing was required.

Also, during the instantaneous monitoring event, SCS performed concurrent integrated monitoring of the landfill surface. As required by the LMR, the landfill was divided into 50,000 square foot areas. The Sonoma Central Landfill surface area was therefore divided into 163 grids, as shown on Figure 1 in Attachment 1. During this monitoring event, several grids were not monitored, in accordance with

the regulations, due to ongoing active landfilling activities, unsafe conditions, or there was no waste in place prior to the monitoring event.

During the monitoring event, there were three (3) grid areas observed to exceed the 25 ppmv LMR integrated average threshold (Table 2 in Attachment 4). The required first and second 10-day LMR follow-up monitoring indicated that all areas returned to compliance following system adjustments and remediation by SCS and site personnel. Based on these monitoring results, no additional follow up monitoring is required at this time. These results are discussed in a subsequent section of this report.

In addition, quarterly monitoring of the pressurized piping or components of the Gas Collection and Control System (GCCS) that are under positive pressure must be performed. Results of the testing of the landfill gas (LFG) Blower Flare Station (BFS) pressurized piping and components indicated that some test locations were not in compliance with the 500 ppmv requirement. These results are discussed in a subsequent section of this report.

Further, as required under the LMR, any location on the landfill that has an observed instantaneous methane concentration above 200 ppmv, must be stake-marked and Global Positioning System (GPS) located on a site figure. During this reporting period, ten (10) locations were observed to exceed the 200 ppmv, reporting threshold, in addition to the location noted above. When these readings are observed, the locations are reported to site personnel for tracking and/or remediation and will be reported in the next submittal of the annual LMR report. Please see the figure in Attachment 3 for location details.

Finally, to help prevent potential future exceedances, SCS recommends that the landfill surface be routinely inspected and any observed surface erosion be routinely repaired.

SURFACE EMISSIONS MONITORING

On April 24, 25 and May 2, 3, 10, 12, 17 and 18, 2023, the instantaneous and integrated SEM was performed over the surface of the subject site. The intent of the monitoring was to identify any specific locations or areas of the landfill surface with organic compound concentrations exceeding the LMR threshold limit values of 500 ppmv measured as methane for instantaneous monitoring, or an average methane concentration of 25 ppmv for the integrated monitoring in the 50,000 square foot grids as required under the LMR. During this event, SCS performed the monitoring on a 25-foot pathway in accordance with the rules as required.

EMISSIONS TESTING INSTRUMENTATION/CALIBRATION

Instruments used to perform the landfill surface emission testing consisted of the following:

- Thermo Scientific TVA 2020 portable Flame Ionization Detector (FID). This instrument
 measures methane in air over a range of 1 to 50,000 ppmv. The TVA 2020 meets the State
 of California Air Resources Board (CARB) requirements for combined instantaneous and
 integrated monitoring and was calibrated in accordance with United States Environmental
 Protection Agency (US EPA) Method 21.
- Weather Anemometer with continuous recorder for meteorological conditions in accordance with the LMR.

Instrument calibration logs and weather information are shown in Attachments 5 and 6.

SURFACE EMISSIONS MONITORING PROCEDURES

Surface emissions monitoring was conducted in accordance with the LMR and NSPS requirements. Monitoring was performed with the FID inlet held within 3-inches of the landfill surface while a technician walked a grid in parallel paths not more than 25 -feet apart over the surface of the landfill. Cracks, holes and other cover penetrations in the surface were also tested. Surface emissions readings were monitored continuously and recorded every 5 seconds. Any areas in exceedance of the 200 or 500 ppmv standards (reporting and compliance levels, respectively) would be GPS tagged and stake-marked for on-site personnel to perform remediation or repairs.

The integrated average is based on the readings stored on the instrument, which are recorded every 5 seconds. The readings are then downloaded and the averages are calculated for each grid using SCS eTools®. All readings are maintained in this secure SCS Database. The readings are not provided in the report due to the volume of readings, but can be furnished upon request.

Recorded wind speed results are shown in Attachment 6. Wind speed averages were observed to remain below the alternative threshold of 10 miles per hour, and no instantaneous speeds exceeded 20 miles per hour. No rainfall had occurred within 72 hours of the monitoring events. Therefore, site meteorological conditions were within the alternatives of the LMR requirements on the above mentioned dates.

TESTING RESULTS

During this event, SCS performed the monitoring on a 25-foot pathway in accordance with the rule as required under the LMR and NSPS. The intent of the monitoring was to identify any specific locations or areas of the landfill surface with organic compound concentrations exceeding the LMR or NSPS threshold limit values of 500 ppmv measured as methane for instantaneous monitoring, or an average methane concentration of 25 ppmv for the integrated monitoring (LMR).

On April 24 & 25, 2023, SCS performed second quarter 2023 instantaneous emissions monitoring testing as required by the BAAQMD. During this monitoring, surface emissions results indicated that twenty-two (22) locations exceeded the 500 ppmv maximum concentration. The required first 10-day (LMR/NSPS) and 30-day (NSPS) follow-up monitoring performed on May 2, 3 and 17, 2023, respectively, indicated that the locations had returned to compliance following system adjustments and remediation (wellfield adjustment and borehole repairs using bentonite and soil) performed by SCS personnel. Based on these monitoring results no additional follow up testing was required. Results of the monitoring are shown in Attachments 2 and 3 (Table 1).

Additionally, calculated integrated grid monitoring indicated three (3) integrated exceedances of the 25-ppmv requirement on April 24, 2023. The required first and second 10-day LMR follow-up monitoring performed on May 3 and 12, 2023, indicated that all areas had returned to compliance following system adjustments and remediation by site personnel. Based on these monitoring results no additional follow up testing was required. Results of the initial and follow up monitoring are shown in Attachment 4 (Table 2). Calibration logs for the monitoring equipment are provided in Attachment 5.

During this monitoring event, several grids were not monitored, in accordance with the LMR, due to active landfilling activities, unsafe conditions or no waste in place. SCS will continue to monitor all accessible locations during the third quarter 2023.

PRESSURIZED PIPE AND COMPONENT LEAK MONITORING

On April 25 and May 2, 2023, quarterly leak monitoring was performed in accordance with the LMR. SCS performed LFG pressurized pipe and component leak monitoring at the BFS and PGF Facility. Monitoring was performed with the detector inlet held one-half of an inch from pressurized pipe and associated components. Two locations exceeding the 500 ppmv threshold were observed during our monitoring event at the Power Facility. The required first and second 10-day LMR follow-up and 8-34 7-Day monitoring performed on May 9, 10, 12 and 18, 2023, indicated that all areas had returned to compliance following system adjustments and remediation by site personnel. Based on these monitoring results no additional follow up testing was required. Results of the monitoring are shown in Attachments 2 and 3 (Table 1).

PROJECT SCHEDULE

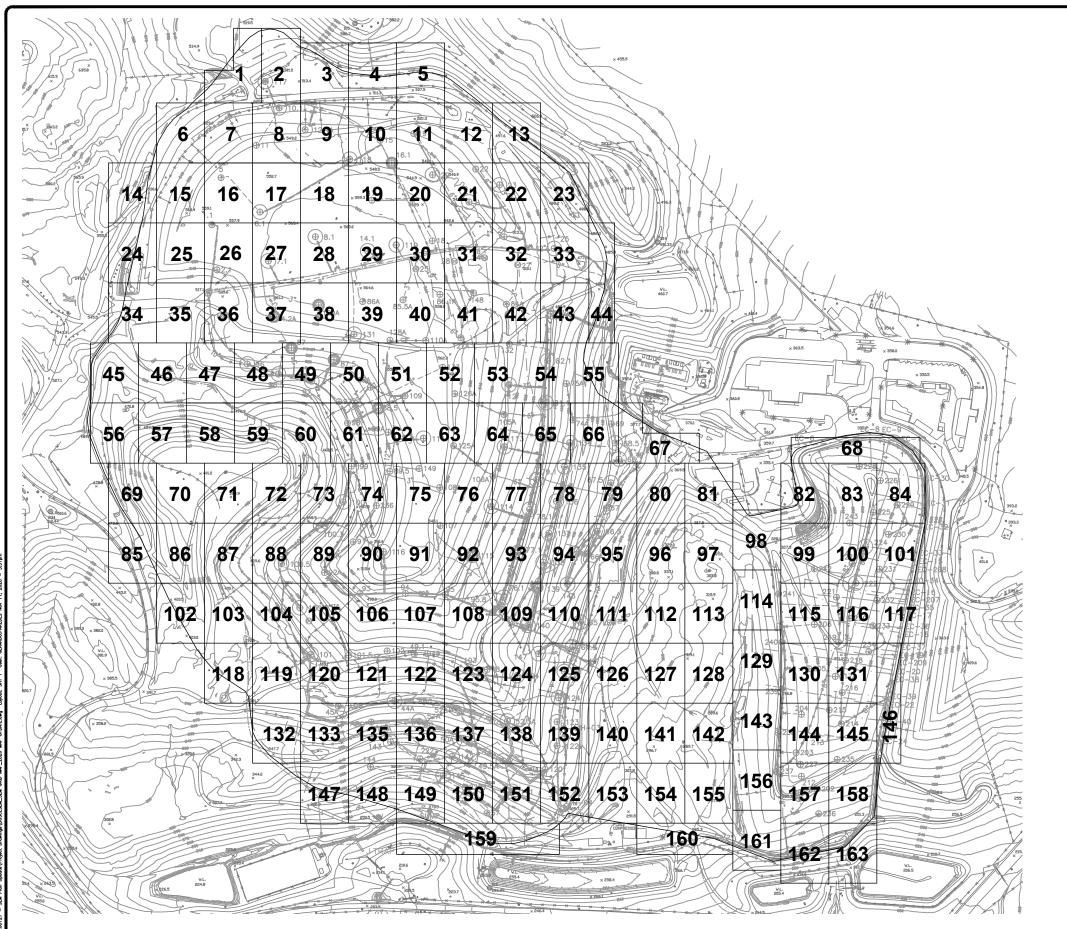
According to the LMR and NSPS, surface emissions monitoring at active landfills is required to be performed on a quarterly basis. Therefore, in accordance with our approved Work Scope, the third quarter 2023 (July through September) surface emissions testing event is scheduled to be performed by the end of September 2023 in accordance with the Republic SOP unless an alternative timeline is requested by site personnel.

STANDARD PROVISIONS

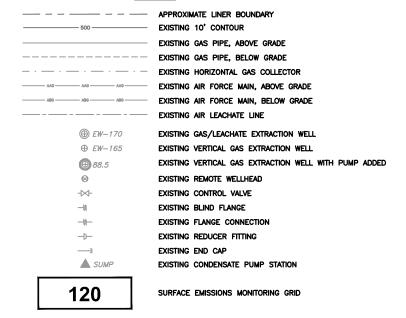
This report addresses conditions of the subject site during the testing dates only. Accordingly, we assume no responsibility for any changes that may occur subsequent to our testing which could affect the surface emissions at the subject site or adjacent properties.

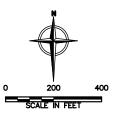
Attachment 1

Landfill Grid



LEGEND





NOTES:

1. THE 2020 TOPOGRAPHIC MAP WAS PREPARED BY COOPER AERIAL SURVEYS CO. DATE OF PHOTOGRAPHY: JANUARY 31, 2020. HORIZONTAL DATUM: NAD27, ZONE 2 VERTICAL DATUM: NGVD29.

2. THE 2018 GCCS AS-BUILT GCCS IMPROVEMENTS PROVIDED BY REPUBLIC SERVICES INC. ON SEPTEMBER 20, 2018.

TETRA TECH DESCRIPTION DWN BY DES BY CHK BY APP B CHECKED BY ____

SONOMA COUNTY CENTRAL LANDFILL PETALUMA, CALIFORNIA

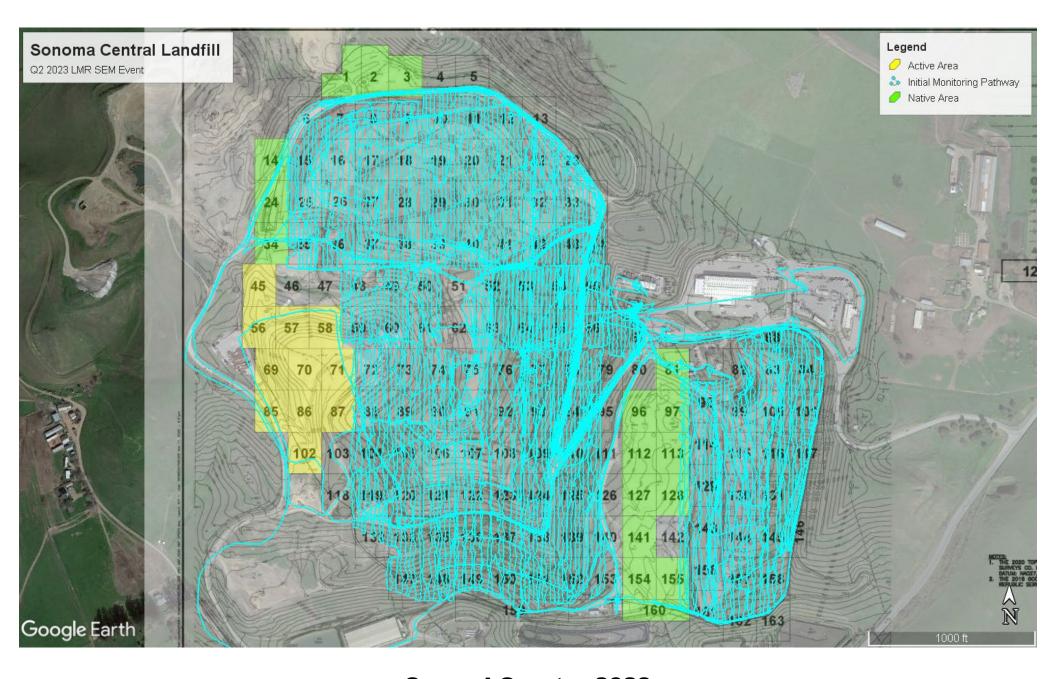
> SURFACE EMISSIONS MONITORING **GRID MAP**

SHEET NO. PROJECT NO.

197-200019

Attachment 2

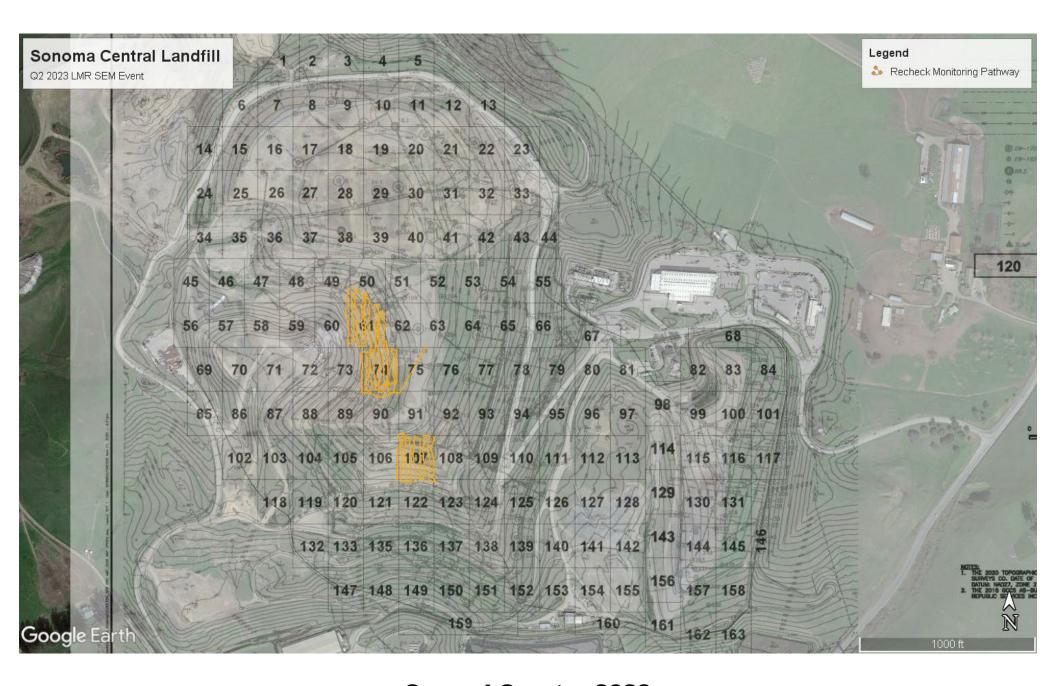
Surface Pathway



Second Quarter 2023

LMR Surface Emissions Monitoring Pathway

Sonoma Central Landfill, Petaluma, California



Second Quarter 2023

LMR Surface Emissions Recheck Monitoring Pathway

Sonoma Central Landfill, Petaluma, California

Attachment 3

Instantaneous and Component Emissions Monitoring Results

Table 1. Instantaneous Surface Emissions Monitoring Results Sonoma Central Landfill, Sonoma, California

Instantaneous Data Report for April 24, 25 and May 2, 3, 10, 12, 17 and 18, 2023

Highest Component Readings

Location	Initial Monitoring (ppmv)	First 10-Day Follow Up Monitoring (ppmv)	First 10-Day Follow Up Monitoring (ppmv)	30-Day Follow Up Monitoring (ppmv)	Latitude	Longitude
	4/25/2023	5/2/2023	5/3/2023	5/17/2023		
CO030	700	3		250	38.3002900	-122.7439600
CO040	700	76		0.6	38.2975200	-122.7445500
SCEW2105	4,840		343	485	38.3033610	-122.7503447
SCEW2113	1,000		475	1.7	38.2990382	-122.7461355
SCEW2117	800		307	1.7	38.2973977	-122.7462293
SCEW2118	1,000		254	64.4	38.2969862	-122.7463230
SCEW2119	800	3		1.9	38.2966638	-122.7459233
SCEW2120	1,000	61		17.3	38.2971315	-122.7458998
SCEW2126	1,000		151	73.3	38.3001333	-122.7451180
SFR G53 JS	545	74		1.5	38.3017440	-122.7499270
SFR G53 JS1	1,709	5		19.0	38.3016550	-122.7499150
V092-A	568	433		76.6	38.2991800	-122.7526000
V109-A	2,789		64	34.2	38.3012600	-122.7513900
V138-0	765	5		4.8	38.2993000	-122.7494800
V218-0	1,000	240		7.4	38.2982190	-122.7450640
V219-0	1,000	340		6.0	38.2983800	-122.7450700

Table 1. Instantaneous Surface Emissions Monitoring Results Sonoma Central Landfill, Sonoma, California

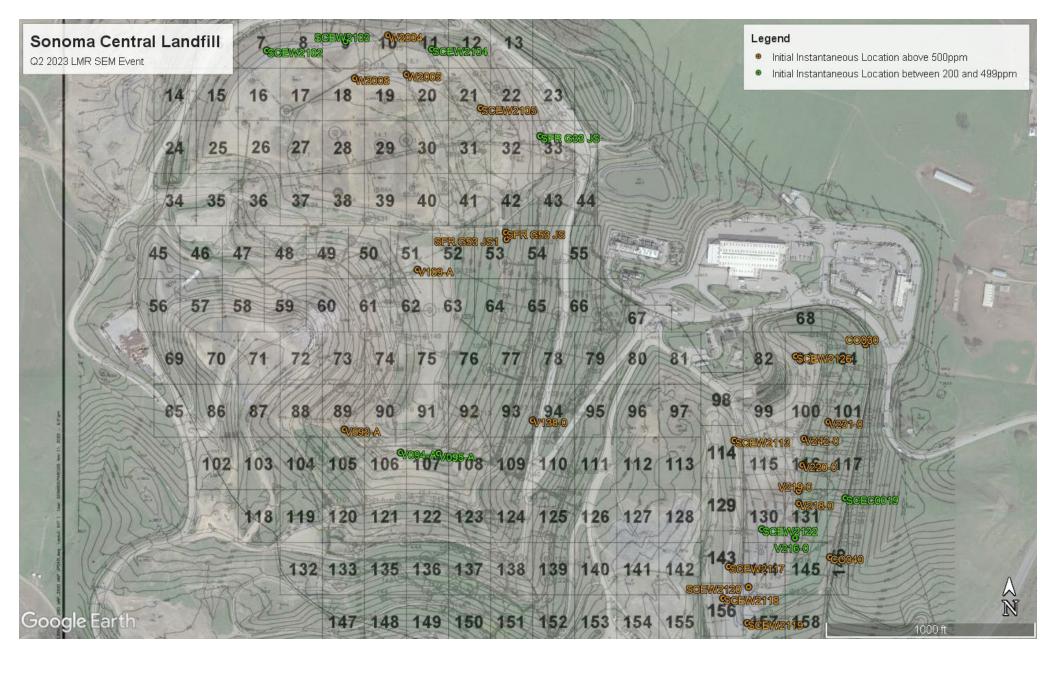
Location	Initial Monitoring (ppmv) 4/25/2023	First 10-Day Follow Up Monitoring (ppmv) 5/2/2023	First 10-Day Follow Up Monitoring (ppmv) 5/3/2023	30-Day Follow Up Monitoring (ppmv) 5/17/2023	Latitude	Longitude
V220-0	1,000		39	12.1	38.2987200	-122.7450100
V231-0	1,000	170		2.8	38.2992800	-122.7445800
V242-0	2,000		48	6.1	38.2990610	-122.7449790
W2004	625		155	241	38.3043100	-122.7518800
W2005	847		311	175.0	38.3038000	-122.7515700
W2008	5,158		335	156.0	38.3037500	-122.7524300
SCEC0019	300				38.2982890	-122.7442950
SCEW2102	264				38.3041123	-122.7538917
SCEW2103	245				38.3042273	-122.7525852
SCEW2104	234				38.3041287	-122.7511542
SCEW2122	423				38.2978847	-122.7456800
SFR G33 JS	375				38.3029980	-122.7493570
V094-A	279				38.2988800	-122.7516700
V095-A	241				38.2988700	-122.7510400
V216-0	423				38.2977700	-122.7451300
HSR GRID 108 RY	336				38.2988200	-122.7508640

Table 1. Instantaneous Surface Emissions Monitoring Results Sonoma Central Landfill, Sonoma, California

Highest Pressurized Pipe Readings

Location	Initial Monitoring (ppmv) 4/25/2023	Initial Monitoring (ppmv) 5/2/2023	LMR First 10- day/ 8-34 7- Day 5/9/2023	LMR First 10- day/ 8-34 7- Day 5/10/2023	LMR First 10- day/ 8-34 7- Day 5/12/2023	LMR Second 10-Day 5/18/2023
Flare	6.70					
ENGINE S9 ON TOP		230		64.7		
S9 CYLINDER4		400		9.3		
S9CYLINDER8		1,000	Taken out of operation	15		
S4engine		3,000	Taken out of operation	Offline	1139/taken back out of operation	128

No additional exceedances of the 500 ppm threshold were observed during the monitoring performed during the second quarter 2023.



Second Quarter 2023
Initial Emissions Monitoring Locations Greater Than 200 ppm and 500 ppmv
Sonoma Central Landfill, Petaluma, California

Attachment 4

Integrated Monitoring Results

Point Name	Record Date	FID Concentration (ppm)	Comments
SC001		(ppiii)	Native Grid
SC002			Native Grid
SC003			Native Grid
SC004	4/24/2023	4.11	
SC005	4/24/2023	2.80	
SC006	4/24/2023	1.42	
SC007	4/24/2023	2.88	
SC008	4/24/2023	6.55	
SC009	4/24/2023	15.86	
SC010	4/24/2023	10.54	
SC011	4/24/2023	11.63	
SC012	4/24/2023	10.97	
SC013	4/24/2023	12.13	
SC014			Native Grid
SC015	4/24/2023	1.19	
SC016	4/24/2023	2.14	
SC017	4/24/2023	6.73	
SC018	4/24/2023	4.56	
SC019	4/24/2023	4.89	
SC020	4/24/2023	4.15	
SC021	4/24/2023	4.05	
SC022	4/24/2023	16.85	
SC023	4/25/2023	8.68	
SC024			Native Grid
SC025	4/24/2023	0.98	
SC026	4/24/2023	1.85	
SC027	4/24/2023	3.99	
SC028	4/24/2023	4.66	
SC029	4/24/2023	4.78	
SC030	4/24/2023	2.83	
SC031	4/24/2023	3.53	
SC032	4/24/2023	5.99	
SC033	4/25/2023	7.96	
SC034			Native Grid
SC035	4/24/2023	0.78	
SC036	4/24/2023	3.13	
SC037	4/24/2023	5.00	
SC038	4/24/2023	7.17	
SC039	4/24/2023	9.63	
SC040	4/24/2023	5.60	
SC041	4/24/2023	4.38	
SC042	4/24/2023	8.81	
SC043	4/25/2023	4.59	

Point Name	Record Date	FID Concentration (ppm)	Comments
SC044	4/25/2023	2.68	
SC045			Active Area
SC046	4/25/2023	8.29	
SC047	4/25/2023	9.88	
SC048	4/24/2023	22.04	
SC049	4/24/2023	13.55	
SC050	4/24/2023	14.33	
SC051	4/25/2023	3.53	
SC052	4/25/2023	5.80	
SC053	4/25/2023	10.48	
SC054	4/25/2023	4.69	
SC055	4/25/2023	1.93	
SC056			Active Area
SC057			Active Area
SC058			Active Area
SC059	4/24/2023	13.08	
SC060	4/24/2023	6.45	
SC061	4/24/2023	28.54	Initial Monitoring
SC061	5/3/2023	28.97	First 10-Day Follow Up
SC061	5/12/2023	11.26	Second 10-Day Follow Up
SC062	4/25/2023	4.51	
SC063	4/25/2023	7.95	
SC064	4/24/2023	2.83	
SC064	4/25/2023	4.41	
SC065	4/25/2023	3.42	
SC066	4/25/2023	2.20	
SC067	4/25/2023	3.87	
SC068	4/25/2023	12.05	
SC069			Active Area
SC070			Active Area
SC071			Active Area
SC072	4/24/2023	12.58	
SC073	4/24/2023	7.71	
SC074	4/24/2023	30.67	Initial Monitoring
SC074	5/3/2023	18.00	First 10-Day Follow Up
SC075	4/24/2023	17.16	
SC076	4/24/2023	12.62	
SC077	4/24/2023	4.52	
SC078	4/24/2023	3.23	
SC079	4/25/2023	3.82	
SC080	4/25/2023	3.52	
SC081			Native Grid
SC082	4/25/2023	5.75	

Point Name	Record Date	FID Concentration (ppm)	Comments
SC083	4/25/2023	16.36	
SC084	4/25/2023	12.13	
SC085			Active Area
SC086			Active Area
SC087			Active Area
SC088	4/24/2023	16.81	
SC089	4/24/2023	15.29	
SC090	4/24/2023	20.82	
SC091	4/24/2023	19.22	
SC092	4/24/2023	23.91	
SC093	4/24/2023	4.93	
SC094	4/24/2023	3.13	
SC095	4/25/2023	3.96	
SC096			Native Grid
SC097			Native Grid
SC098	4/24/2023	4.01	
SC099	4/25/2023	7.51	
SC100	4/24/2023	5.91	
SC101	4/25/2023	9.84	
SC102			Active Area
SC103	4/25/2023	14.55	
SC104	4/24/2023	13.45	
SC105	4/24/2023	13.26	
SC106	4/24/2023	11.89	
SC107	4/24/2023	25.25	Initial Monitoring
SC107	5/3/2023	27.22	First 10-Day Follow Up
SC107	5/12/2023	5.78	Second 10-Day Follow Up
SC108	4/24/2023	21.96	
SC109	4/24/2023	10.31	
SC110	4/24/2023	3.04	
SC111	4/25/2023	3.58	
SC112			Native Grid
SC113			Native Grid
SC114	4/25/2023	1.83	
SC115	4/25/2023	9.23	
SC116	4/24/2023	3.48	
SC117	4/25/2023	10.87	
SC118	4/25/2023	12.50	
SC119	4/24/2023	5.42	
SC120	4/24/2023	7.51	
SC121	4/24/2023	9.39	
SC122	4/24/2023	15.91	
SC123	4/24/2023	15.86	

Point Name	Record Date	FID Concentration (ppm)	Comments
SC124	4/24/2023	9.60	
SC125	4/24/2023	3.72	
SC126	4/25/2023	3.32	
SC127			Native Grid
SC128			Native Grid
SC129	4/24/2023	1.38	
SC130	4/25/2023	15.20	
SC131	4/25/2023	4.44	
SC132	4/24/2023	2.10	
SC133	4/24/2023	3.10	
SC135	4/24/2023	1.39	
SC136	4/24/2023	10.95	
SC137	4/24/2023	9.47	
SC138	4/24/2023	3.24	
SC139	4/24/2023	4.80	
SC140	4/24/2023	1.15	
SC141			Native Grid
SC142	4/24/2023	1.10	
SC143	4/24/2023	1.49	
SC144	4/25/2023	10.64	
SC145	4/25/2023	4.49	
SC146	4/24/2023	8.51	
SC147	4/24/2023	1.20	
SC148	4/24/2023	3.56	
SC149	4/24/2023	10.38	
SC150	4/24/2023	8.99	
SC151	4/24/2023	1.40	
SC152	4/24/2023	2.18	
SC153	4/24/2023	1.00	
SC154			Native Grid
SC155			Native Grid
SC156	4/24/2023	2.77	
SC157	4/25/2023	6.16	
SC158	4/25/2023	3.05	
SC159	4/25/2023	1.99	
SC160			Native Grid
SC161	4/24/2023	1.87	
SC162	4/25/2023	1.40	
SC163	4/25/2023	2.20	

Attachment 5

Calibration Logs

		CALIBRATION AN	D PERTINENT D	ATA	
Date:	4-24-2	3	Site Name:	Sonom	a
Inspector(s)	Bryan	Ochoa	Instrument:	/A 2020	
WEATHER	OBSERVATIONS			a	
Wind Spe	eed:MPH	Wind Direction:		rometric Pressure: 2 9	"Hg
Temperatu	Air ure: 4 PF	General Weather Conditions	Sunny		
CALIBRATIO	IN INFORMATION				
Pre-monitorii	ng Calibration Precision Che	eck			
and calculate	the average algebraic diffe it be less than or equal to 1	nke a total of three measurement rerence between the instrument r 20% of the calibration gas value.	eading and the calibro	air and the calibration ation gas as a percent Gas Concentration:	n gas. Record the readings rage. The calibration 500ppm
Trial	Zero Air Reading	Cal Gas Reading	Cal Gas ConcC	Cal Gas Reading	Response Time (seconds)
1	-61	500	O		(Seconds)
2	-0.1	501			6
		500			6
Span Sensitivity	r:	= 100%	<u> </u>	x 100%	
Trial 1:	ounts Observed for the Spa	an= 146848	Trial 3: Counts Obs	erved for the Span=	147214
	unters Observed for the Ze	ro= 3983	Counters Obs	served for the Zero=	3948
T <mark>rial 2:</mark> Co	ounts Observed for the Spa				
	inters Observed for the Zer	79 = 2			
ost Monitoring	Calibration Check				
ero Air eading:	41.3 ppm	Cal Gas Reading:	50.2 ppm	Ł	
ACKGROUND	CONCENTRATIONS CHEC	EKS			
owind Location	Description:	McChanic Shoop	Reading	g: <u>ZZ</u> p	pm
ownwind Locati	on Description	96	Reading	g: <u>7.3</u> p	pm
•	exceeded 20 miles per hou	observed to remain below the r. No rainfall had occurred with were within the requested alter	in the previous 24 hou	urs of the monitoring	event. Therefore, site

SURFACE EMISSIONS MONITORING

		CALIBRATION AN			i.
Date:	4-24-23		Site Name:	Sonoma	
Inspector(s):	Andrew St	tone	Instrument:	TVA 2020	
WEATHER OF	BSERVATIONS	The state of the s		E	
Wind Speed	d: 1 MPH	Wind Direction:		Barometric 29. 97	7 "Hg
Ai Temperature	(A)	General Weathe Conditions	C	<u></u>	
CALIBRATION	INFORMATION				
Pre-monitoring	g Calibration Precision Check				
and calculate the precision must l	ibrate the instrument. Make of the average algebraic difference be less than or equal to 10% of ial Number:	ce between the instrument of the calibration gas value.	reading and the c	calibration gas as a percen	ntage The calibration
Instrument Seri			-14	Cal Gas Concentration:	
Trial 1	Zero Air Reading	Cal Gas Reading	Cal Gas Co	oncCal Gas Reading	Response Time (seconds)
2	0	499	1	10	5
0		= 99.74		/500 x 100%	
Span Sensitivity: [rial 1:			Trial 3:		
Co	ounts Observed for the Span=	161996	Coun	ts Observed for the Span=	157 728
	nters Observed for the Zero=	5746	Counte	ers Observed for the Zero=	5452
Co	ounts Observed for the Span=	160408			
Cour	nters Observed for the Zero=	5489			
ost Monitoring (Calibration Check				
ero Air eading:	3.6 ppm	Cal Gas Reading:	515	ppm	
ACKGROUND (CONCENTRATIONS CHECKS	Ď			
pwind Location I	Description:	mechanic sho	p F	Reading:	ppm
ownwind Locatio	on Description:	96	F	Reading 2.3	ppm
e	Wind speed averages were ob exceeded 20 miles per hour. I meteorological conditions we	No rainfall had occurred wi	ithin the previous	24 hours of the monitoring	ng event. Therefore, site

	Date: Inspector(s):	4-24-23 English 1-1		Site Name:	S6nome	
	nspector(s):	E 10 11 NO 1 - (- Choppe	
١		- minimule	Paz	Instrument:	TVA 2020	
	WEATHER OBS	ERVATIONS				
	Wind Speed:	<u>1</u>	Wind Direction:	=	Barometric 29.9	7 "Hg
	Air Temperature:	4(°F	General Weathe Conditions	Sunny	t 2	
c	ALIBRATION IN	NFORMATION				
P	re-monitoring C	alibration Precision Check		25		
pr	nd calculate the	average algebraic differen less than or equal to 10% (a total of three measuremer ce between the instrument i of the calibration gas value.	reading and the d	calibration gas as a percent	age. The calibration 500ppm
Tri	ial 1	Zero Air Reading	Cal Gas Reading	Cal Gas C	oncCal Gas Reading	Response Time (second
	2	-0.1	501	1		2
-	3	6	49 F	5		5
Spa	n Sensitivity;	i.	= 100%- = QQ.48	2.6	/500 x 100%	
Tria	<u>l 1:</u> Coun	ts Observed for the Span=	136956	Trial 3:	ts Observed for the Span=	133224
		ers Observed for the Zero=	10		rs Observed for the Zero= $\frac{3}{2}$	
Trial	2:	ts Observed for the Span=		Counte	rs Observed for the Zero=/	770
	Counte	rs Observed for the Zero=	3984			
Post	Monitoring Cali	ibration Check				
Zero Read	ing: $\frac{2}{2}$, 4 ppm	Cal Gas Reading:	<i>510</i>	ppm	
		NCENTRATIONS CHECKS				
	nd Location Des	scription:	Mechanic Sho	₽ R	0.3	mom
Down	wind Location [Description:	96	R	eading: <u>```</u> p _l	om
1	: Win	d speed averages were ob	served to remain below the	alternative requ	ested 10 miles per hour and	I no instantaneous speeds

	1		SURFACE EMISS	SIONS MONI	TORING	
1			CALIBRATION A			
	Date:	4-24-25 Sonathan So		Site Name:	Soroma	
	Inspector(s):	Sonathan Se	Relvecta	Instrument:	TVA 2020	
	WEATHER OB	SERVATIONS			*	
	Wind Speed	: МРН	Wind Wind Direction:	=	Barometric 29. 9	Z "Hg
	Air Temperature:		General Weath Condition	er Sunny	- :	
ŀ	CALIBRATION I	NFORMATION				
ļ	Pre-monitoring (Calibration Precision Ch	neck			
P	ind calculate the	e less than or equal to	lake a total of three measureme ference between the instrument 10% of the calibration gas value	reading and the c	zero air and the calibratio calibration gas as a percent Cal Gas Concentration:	n gas. Record the readings tage. The calibration 500ppm
Ī	rial	Zero Air Reading	Cal Gas Reading	ICal Gas Co	oncCal Gas Reading	Response Time (second
\ L	1	0	500	(nesponse time (second)
2 +	2	-0.1	499		_	6
· -	3	-6.1	502	2		4
Ca	libration Precisi	on= Average Difference	e/Cal Gas Conc. X 100% = 100%- = 9 9 9 7	1 %	/500 x 100%	
4	an Sensitivity:					
Tria	al 1: Cour	nts Observed for the Sp	an= 169348	Trial 3: Count	s Observed for the Span=	171324
Tale	Counte	ers Observed for the Ze	ro= 4995	Counter	s Observed for the Zero=	4841
Tria		ts Observed for the Sp	an= 170876			
1	Counte	ers Observed for the Ze	ro= 488 9			
Post	Monitoring Cal	ibration Check				
Zero Read	_	1,9 ppm	Cal Gas Reading:	502 pp	om	
BAC	KGROUND CO	NCENTRATIONS CHE	CKS			
Upwi	nd Location De	scription:	Mechanic 8h	© P R€	eading: <u>Z,Z</u> p	pm
Dowr	nwind Location	Description:	66	Re	eading: 2,3 p	om
Notes	ехс	d speed averages were eeded 20 miles per hou	e observed to remain below the	e alternative reque hin the previous 2	sted 10 miles per hour and 4 hours of the monitoring	d no instantaneous speeds event Therefore, site

meteorological conditions were within the requested alternatives of the LMR requirements on the above mentioned date.

		SURFACE EMISS	HADER SIZOE	TODING	
- 1				- · -	
1		CALIBRATION A	ND PERTINE	NT DATA	
Date:	4-24-23	· ·	Site Name:	Sonoma	
Inspector	(s): Alfredo	Gomez	Instrument:	TVA 2020	
WEATHE	R OBSERVATIONS				
Wind 9	Speed: MPH	Wind Direction:	_	Barometric Pressure: 29	"Hg
Temper	Air vature: 44 °F	General Weath Condition	er Sunu	4	
CALIBRAT	TION INFORMATION				
Pre-monito	oring Calibration Precision Check				
precision n	Calibrate the instrument. Make ate the average algebraic difference to 10% Serial Number:	nce between the instrument of the calibration gas value	reading and the	g zero air and the calibraticalibration gas as a percer Cal Gas Concentration:	ntage. The calibration
Trial	Zero Air Poading	Cal Cas Booding	T 1016 6		
1	Zero Air Reading	Cal Gas Reading		oncCal Gas Reading	Response Time (seconds)
2	1.0-	50 (, O		5
3	-0.	500	1		4
Calibration F	Precision= Average Difference/Ca	= 100% = 99,9	· .3	/500 x 100%	
Trial 1:	Counts Observed for the Span=	123812	Trial 3:	ts Observed for the Span=	177751
	Counters Observed for the Zero=		H)	rs Observed for the Zero=	
Trial 2:	Counts Observed for the Span=		3041110	o discrete for the Edito-	
1	ounters Observed for the Zero=				
	ng Calibration Check				
Zero Air		Cal Gas			
Reading:	ppm	Reading:	502	pm	
BACKGROUN	D CONCENTRATIONS CHECKS				
Upwind Location	on Description:	Mechanic she	₽ R	eading: 2,7	opm
Downwind Loca	ation Description:	66	R	eading: 7.3	ppm
Notes:	Wind speed averages were ob exceeded 20 miles per hour. I meteorological conditions we	No rainfall had occurred wit	thin the previous 2	24 hours of the monitoring	gevent. Therefore, site

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		SURFACE EMISS	IONS MONI	TORING	
		CALIBRATION A	ND PERTINE	NT DATA	
Date:	4-24-23	<u></u>	Site Name	Sonoma	
Inspector(s): Alleredes G	mary.	Instrument:	TVA 2020	
	ROBSERVATIONS AC	turo Oliva		11772020	
Wind S	peed:MPH	Wind Direction:		Barometric Pressure:	*Hg
Tempera	Air ture: 44 *F	General Weath Condition		y	
CALIBRAT	ON INFORMATION		Ĩ.		
Pre-monito	ring Calibration Precision Chec	ck			
and calcula	Calibrate the instrument. Mal te the average algebraic differ ust be less than or equal to 10	ence between the instrument	reading and the	g zero air and the calibratio calibration gas as a percen	on gas, Record the readings stage. The calibration
Instrument	Serial Number: 542			Cal Gas Concentration:	500ppm
Trial	Zero Air Reading	Cal Gas Reading		oncCal Gas Reading	Response Time (seconds)
2	-0.1	500	0		5
3	-0.\	498 500	1 2		LI
	recision= Average Difference/		16	/500 x 100%	
Span Sensitiv	ity:		-		
Trial 1:	Counts Observed for the Spa	n= 136764	Trial 3: Coun	ts Observed for the Span=	139632
	ounters Observed for the Zero	= 4406		rs Observed for the Zero=	L1323
Trial 2:	Counts Observed for the Spar	141008			
C	ounters Observed for the Zero	9= 4360			
ost Monitoria	ng Calibration Check				
ero Air eading:	-0 (ppm	Cal Gas Reading:	498	ppm	
ACKGROUN	D CONCENTRATIONS CHEC	KS			
pwind Locatio	on Description:	Mechanics Gb	hop F	leading: 2.2	ppm
ownwind Loca	ation Description:	G6	R	eading: 2.3	mqc
otes:	exceeded 20 miles per hour	observed to remain below th . No rainfall had occurred wit vere within the requested alte	thin the previous	24 hours of the monitoring	g event Therefore, site

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100	A			CALIDO		MI CAID	ONITON	Name .
		11.000	0-	CHLIDKA	TION	AND PERT	ONITORING INENT DATA	
	Date:	4-24	-23					
1.	nspector(s)	Com	Gil	Son		Site Nam	e: 500m	
#				oon		Instrumen	Sonom	ra
10	NEA THER (DBSERVATIONS	i			3111611	TVA 2020	
1				142			8	
	Windspe	ed:	MPH	Wind Direction:	Na			
i		Air /					Barometric	
	Temperatur		₫ _E	Gene	ral Weath	ler	Pressure:	
1			-		Condition			
CA	LIBRAION	INFORMATION	N			is: Sun	ng	
	monitoring	Calibration Prec	rision Chook					
H							zero air and the calibr	
pro	cedure: coll	orate the instrum	nent. Make	a total of three me	asuren-	er =		
and	icion must b	e average aigeb e less than or er	raic differen	ice between the in:	strument	ts by alternating	zero air and sh	
prec	,,,,,		C) 1076	of the calibration g	las value.	and the co	alibration gas as a ner	ation gas. Record the
Instr	ument Seria	Number:	5420	0			zero air and the calibr	centage. The calibrati
		Zero Air Re					Cal Gas Concentration	
Trial	1	-0.	cading	Cal Gas Read	ding	ICal Gas 6	- concentration	1:500ppm
\vdash	2	1.0-		500	-	O Conc	:Cal Gas Reading	
	3	-0.1		502		0		Response Time (s
4						7		
I				Average 2:55		- Lane		5
				Average Differe		10		<u>5</u>
	Precisio	O- Avora Diff				10		5 4
Calibra	tion Precisio	n= Average Diffe	erence/Cal G	Average Differe Sas Conc. X 100%		10	ige difference is greater than 1	5 y
Calibra	tion Precisio	n= Average Diffe	erence/Cal G	Gas Conc. X 100%	*Perfe	10	ige difference is greater than 1	5 y
Calibra	tion Precisio	∩= Average Diff¢	erence/Cal G	Gas Conc. X 100%	*Perfe	prm recalibration if avera		5 y 0
Calibra	tion Precisio	n= Average Diff€	erence/Cal G	Gas Conc. X 100%	*Perfe	orm recalibration if avera		5 y 0
		∩= Average Diffe	erence/Cal G	Gas Conc. X 100%	*Perfe	prm recalibration if avera		5 y 0
Span Sei	nsitivity:			Sas Conc. X 100% = = 9 9	*Perfe	prm recalibration if avera		5 y 0
Span Sei	nsitivity:			Sas Conc. X 100% = = 9 9	*Perfe	orm recalibration if average of the control of the	100%	
Span Sei	nsitivity: Counts	Observed for th	ne Span=_\	5as Conc. X 100% = = 99	*Perfe	orm recalibration if average of the control of the	100%	
Span Sel Trial 1:	nsitivity: Counts Counters	Observed for th	ne Span= ne Zero=	5as Conc. X 100% = = 99 33776 3769	*Perfe	orm recalibration if average /500 x	ed for the Span=	5640
Span Sel Trial 1:	nsitivity: Counts Counters	Observed for th	ne Span= ne Zero=	5as Conc. X 100% = = 99 33776 3769	*Perfe	orm recalibration if average /500 x	ed for the Span=	5640
Span Sel Trial 1:	Counters	Observed for the	ne Span= \frac{1}{2} ne Zero= \frac{1}{2}	33776 336076	*Perfe	orm recalibration if average /500 x	100%	5640
Span Sel Trial 1: Trial 2:	Counters Counters Counters Counters Counters	Observed for the Observed for the Observed for the Observed for the	ne Span= \frac{1}{2} ne Zero= \frac{1}{2}	5as Conc. X 100% = = 99 33776 3769	*Perfe	orm recalibration if average /500 x	ed for the Span=	5640
Span Sel Trial 1: Trial 2:	Counters Counters Counters Counters Counters	Observed for the Observed for the Observed for the Observed for the	ne Span= \frac{1}{2} ne Zero= \frac{1}{2}	33776 336076	*Perfe	orm recalibration if average /500 x	ed for the Span=	5640
Span Sel Trial 1: Trial 2:	Counters	Observed for the Observed for the Observed for the Observed for the	ne Span= \frac{1}{2} ne Zero= \frac{1}{2}	33776 336076	*Perfe	orm recalibration if average /500 x	ed for the Span=	5640
Span Sel Trial 1: Trial 2:	Counters Counters Counters Counters Counters	Observed for the Observed for the Observed for the Observed for the tion Check	ne Span= \frac{1}{2} ne Zero= \frac{1}{2}	33776 336076	*Perfe	orm recalibration if average /500 x	ed for the Span=	5640
Span Sel Trial 1: Trial 2: ost Monit	Counters Counters Counters Counters Counters	Observed for the Observed for the Observed for the Observed for the	ne Span= \frac{1}{2} ne Zero= \frac{1}{2}	33776 3769 36076	*Perfe	Counts Observe	ed for the Span=	5640
Span Sel Trial 1: Trial 2: ost Monit	Counters Counte	Observed for the Observed for the Observed for the tion Check	ne Span= \frac{1}{2} e Span= \frac{1}{2} e Zero= \frac{1}{2}	33776 3769 36076 Cal Gas	*Perfe	orm recalibration if average /500 x	ed for the Span=	5640
Span Sei Trial 1: Trial 2: Ost Monitero Air Pading:	Counters Cou	Observed for the Observed for the Observed for the tion Check	ne Span= \frac{1}{2} e Span= \frac{1}{2} e Zero= \frac{1}{2}	33776 3760 36076 Cal Gas Reading:	*Perfo	Counts Observe	ed for the Span=	5640
Span Sei Trial 1: Trial 2: Trial 2: Trial 2: Trial 2:	Counters Counte	Observed for the Observed for the Observed for the tion Check	ne Span= \frac{1}{2} e Span= \frac{1}{2} e Zero= \frac{1}{2}	33776 3760 36076 Cal Gas Reading:	*Perfo	Counts Observe	ed for the Span=	5640
Span Sel Trial 1: Trial 2: Ost Monitero Air eading: ACKGROU	Counters Cou	Observed for the Observed for the Observed for the tion Check ppm	ne Span= \frac{1}{2} ne Zero= \frac{1}{2} e Zero= \frac{1}{2} HECKS	33776 3776 36076 Cal Gas Reading:	*Perfo	Counts Observed	ed for the Span= 13	5640
Span Sel Trial 1: Trial 2: ost Monitero Aireading: ACKGROU	Counters Counte	Observed for the Observed for the Observed for the Observed for the tion Check Ppm VTRATIONS CH. ion:	ne Span= 1: ne Zero= 1: e Span= 1: e Zero= 3: HECKS	33776 33776 36076 36076 Cal Gas Reading:	*Perfe	Counts Observe Counters Observe Ppm Reading:	ed for the Span= 13 ed for the Zero= 3	715
Span Sel Trial 1: Trial 2: ost Monitero Aireading: ACKGROU	Counters Cou	Observed for the Observed for the Observed for the Observed for the tion Check	ne Span= \frac{1}{2} ne Zero= \frac{1}{2} e Zero= \frac{1}{2} HECKS	33776 = 99 33776 36076 36076 Cal Gas Reading:	*Perfo	Counts Observed Counters Observed Ppm Reading: Reading:	ed for the Span= 13 ed for the Zero= 3	715
Span Sei Trial 1: Trial 2: Ost Monitero Air eading: ACKGROU	Counters Cou	Observed for the Observed for the Observed for the Observed for the tion Check	ne Span= \frac{1}{2} ne Zero= \frac{1}{2} e Zero= \frac{1}{2} HECKS	33776 = 99 33776 36076 36076 Cal Gas Reading:	*Perfo	Counts Observed Counters Observed Ppm Reading: Reading:	ed for the Span= 13 ed for the Zero= 3	715
Span Sel Trial 1: Trial 2: Ost Monitero Air eading: ACKGROU would Lock wnwind Lock wnwind L	Counters Cou	Observed for the tion Check Ppm VTRATIONS CHECK iption: iption: ed averages we applical conditions	ne Span= \frac{1}{2} ne Zero= \frac{1}{2} ne Zero= \frac{1}{2} HECKS MC Cour. No rain	Sas Conc. X 100% = 99 33776 36076 Cal Gas Reading: Chanic She d to remain below the offell had occurred w	*Perfo	Counts Observed Counters Observed Ppm Reading: Reading	ed for the Span= 13 ed for the Zero= 3	715
Span Sel Trial 1: Trial 2: Ost Monitoro Air eading: ACKGROU wind Local wind Local wind Local	Counters Cou	Observed for the tion Check Ppm VTRATIONS CHECK iption: iption: ed averages we applical conditions	ne Span= \frac{1}{2} ne Zero= \frac{1}{2} ne Zero= \frac{1}{2} HECKS MC Cour. No rain	33776 = 99 33776 36076 36076 Cal Gas Reading:	*Perfo	Counts Observed Counters Observed Ppm Reading: Reading	ed for the Span= 13 ed for the Zero= 3	715

		CALIBRATION A	ND PERTINE	NT DATA	
Date:	4-24-23		Site Name:	Sonoma	
Inspector	(s) Rocardo	reper	Instrument:	TVA 2020	
WEATHE	R OBSERVATIONS			0	
Wind:	Speed: MPH	Wind Direction: Mh	_	Barometric 29	"Hg
Temper	Air 44 °F	General Weath Condition	er s: Sunac		
CALIBRAT	TION INFORMATION		/		
Pre-monit	oring Calibration Precision Check				
precision n	Calibrate the instrument. Make ate the average algebraic differer nust be less than or equal to 10%. Serial Number:	ice between the instrumen	t reading and the d	zero air and the calibratio calibration gas as a percent Cal Gas Concentration:	n gas. Record the readings rage. The calibration 500ppm
Trial	Zero Air Reading	Cal Gas Reading	Cal Gas Co	oncCal Gas Reading	Response Time (second
1 2		503	3		5
3		603			<u>3</u>
Span Sensitiv	vitv:	= 994	7.6	/500 x 100%	
Trial 1:		1112262	Trial 3:		No Vi a
	Counts Observed for the Span=		Count	s Observed for the Span=	148488
Trial 2:	Counters Observed for the Zero=	3258	Counter	rs Observed for the Zero=	3315
	Counts Observed for the Span=	156508			
	Counters Observed for the Zero=	3279			
Post Monitori	ng Calibration Check				
Zero Air	,	Cal Gas			
Reading:	_ O 1 (ppm	Reading	SOUP	pm	
BACKGROUN	D CONCENTRATIONS CHECKS	57			
Upwind Locati	on Description:	McChanics G6	hop R	eading: 2,2 p	pm
Downwind Loc	ation Description	G6	Re	eading: <u>2,5</u> p	pm
Notes:	Wind speed averages were ob exceeded 20 miles per hour. I' meteorological conditions wer	No rainfall had occurred wi	thin the previous 2	4 hours of the monitoring	event. Therefore, site

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SURFACE EMISSIONS MONITORING

		CALIBRATION AN	ID PERTINE	NT DATA	
Date:	4-25-23		Site Name:	Sonoma	
Inspector(s):	House	Oliveres	Instrument:	TVA 2020	
WEATHER OF	BSERVATIONS			¥	
Wind Speed	d:MPH	Wind Direction: Www		Barometric Pressure: <mark>29,95</mark>	"Hg
A Temperature	The state of the s	General Weathe Conditions	- 1	_	
CALIBRATION	INFORMATION		1		
Pre-monitoring	Calibration Precision Che	ck			
and calculate th	ne average algebraic diffe the less than or equal to 10	ke a total of three measurement or ence between the instrument of the calibration gas value.	nts by alternating reading and the o	g zero air and the calibration calibration gas as a percent Cal Gas Concentration:	n gas. Record the readings age. The calibration 500ppm
Trial	Zero Air Reading	Cal Gas Reading	ICal Gas C	oncCal Gas Reading	
1	-0.1	LIQQ		onccar das Keading	Response Time (seconds
2	-0.1	500	O		6
3	1.0-	409			5
ipan Sensitivity:		= 99.8	.6	/500 x 100%	
rial 1:	unts Observed for the Spa	n= 144636	Trial 3:	ts Observed for the Span=	นน7ก%
		Constant Am		.=	
Coun	ters Observed for the Zer	0= 5398	Counte	rs Observed for the Zero=	380
	nts Observed for the Span	144864			
Count	ters Observed for the Zero	5385			
ost Monitoring Ca	alibration Check				
ero Air eading:	_ 0.) ppm	Cal Gas Reading:	504 p	ppm [®]	
ACKGROUND CO	ONCENTRATIONS CHEC	K5			
owind Location D	escription:	mechanicshop	R	eading: ZIL pp	om
wnwind Locatior	Description:	G6	R	eading: 2,4 pr	om
exi	ceeded 20 miles per hour	observed to remain below the . No rainfall had occurred with	nin the previous 2	24 hours of the monitoring (no instantaneous speeds event. Therefore, site

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SURFACE EMISSIONS MONITORING

		CALIBRATION A	ND PERTINEN	IT DATA	
Date:	4-25-23 Don Gil	-	Site Name:	Sonoma	
Inspector(s):	Don Gil	bon	Instrument:	TVA 2020	<u> </u>
WEATHER OF	SERVATIONS				
Wind Speed	d:MPH	Wind Direction: Nw	_	Barometric Pressure: 29.95	"Hg
A Temperature	ir e: <u>44</u> *F	General Weath Condition			
CALIBRATION	INFORMATION				
Pre-monitoring	Calibration Precision Check	<			
and calculate th	ne average algebraic differe be less than or equal to 10%	e a total of three measureme nace between the instrumen of of the calibration gas value	t reading and the c	zero air and the calibratio alibration gas as a percent Cal Gas Concentration:	n gas. Record the readin tage. The calibration 500ppm
Trial	Zero Air Reading	Cal Gas Reading	LCal Car Co	ans Cal Cas Bandinal	- T: /
1	-0.1	501		oncCal Gas Reading	Response Time (secon
2	0	500	O		6
3	-0.(501			6
		= 100% = 99. %	%	/500 x 100%	
Span Sensitivity:					
Trial 1:	unts Observed for the Span	191844	Trial 3:	s Observed for the Span=	193312
Coun	ters Observed for the Zero:	5246	Counter	s Observed for the Zero=	5151
<u>Trial 2:</u> Cou	nts Observed for the Span-	190048			9,01
Count	ters Observed for the Zero=	5164			
ost Monitoring C	alibration Check				
Zero Air Reading:	-⊘ ,	Cal Gas Reading:	503 pp	om	
ACKGROUND CO	ONCENTRATIONS CHECK	\$			
pwind Location D	escription:	mechanic sh	o f Re	eading: 21 p	pm
ownwind Location	n Description:	66		eading: 2,4 p	pm
ex	ceeded 20 miles per hour.	bserved to remain below th No rainfall had occurred wi	thin the previous 2	4 hours of the monitoring	d no instantaneous speed event. Therefore, site

SURFACE EMISSIONS MONITORING

			IISSIONS MONIT		<u></u>
	In second		I AND PERTINEN	IT DATA	
Date	4-25-23	5	Site Name:	Sonoma	
Inspector(s)	4-25-23 Licarda	· Yepcz	Instrument:	TVA 2020	
WEATHER OBS	SERVATIONS			į.	
Wind Speed:	:МРН	Wind H Direction: <u>N ₩</u>		Barometric 29.95	"Hg
Air Temperature:	<u>43</u> °F	General We Condi	eather litions: Cloudy	_	
CALIBRATION II	NFORMATION		0		
Pre-monitoring (Calibration Precision C	Check			
and calculate the	e average algebraic di e less than or equal to	Make a total of three measur ifference between the instrun o 10% of the calibration gas v	ment reading and the c	zero air and the calibration calibration gas as a percent Cal Gas Concentration	n gas. Record the readings tage. The calibration 500ppm
Trial	Zero Air Reading	g Cal Gas Reading	Z	oncCal Gas Reading	Response Time (seconds)
1	O	499	,	1	3
3	-6.1	507	6	2	4
		= 99.	<u> </u>	/500 x 100%	
ipan Sensitivity: Frial 1:					.,
	nts Observed for the S	Span= 127276	Trial 3: Count	s Observed for the Span=	127284
	ers Observed for the Z	Zero= 378		rs Observed for the Zero=	
rial 2: Coun	its Observed for the S	Span= 126728			
Counte	ers Observed for the Z	Zero= 374 5			
ost Monitoring Cal	libration Check	3 .			
ero Air eading:	-2.3 ppm	Cal Gas Reading:	565 pp	pm	
CKGROUND CO	NCENTRATIONS CH	ECKS			
wind Location Des	scription:	Mechanic GC	_shop Re	eading: 2110	pm
wnwind Location I	Description:	G6	Re	eading: 2.4 p	pm
exce	eeded 20 miles per ho	ere observed to remain below our. No rainfall had occurred as were within the requested	d within the previous 2	4 hours of the monitoring	event. Therefore, site

			SURFACE EMISS	IONS MONI	TORING	THE RESERVE TO SERVE
			CALIBRATION A	ND PERTINE	NT DATA	
	Date:	4-25-23		Site Name:	Sunang	
	Inspector(s):	Rryan (Bohoa	Instrument:	TVA 2020	
	WEATHER OF	BSERVATIONS			9	
	Wind Speed	нчм:	Wind Direction:	_	Pressure: 29.95	"Hg
	A Temperature	43	General Weath Condition		_	
	CALIBRATION	INFORMATION				
	Pre-monitoring	Calibration Precision Check				
	and calculate th	ne average algebraic differe the less than or equal to 10%	a total of three measuremence between the instrument of the calibration gas value	reading and the o	calibration gas as a percen	on gas. Record the readings tage. The calibration
1			<u> </u>		Cal Gas Concentration:	500ppm
ŀ	Trial 1	Zero Air Reading	Cal Gas Reading	Cal Gas C	oncCal Gas Reading	Response Time (seconds)
t	2	0.1	500	0		5
	3	0	500	9		3
	pan Sensitivity:	sion= Average Difference/Ca		<u>, 3</u>	/500 x 100%	
R	ial 1:	unts Observed for the Span=	137204	Trial 3:	ts Observed for the Span=	linena
		ters Observed for the Zero=			rs Observed for the Zero=	14177
Tr	ial 2:	nts Observed for the Span=		Counte	is observed for the Zero=	7115
		ters Observed for the Zero=				
Do.			7043			
Pos	st Moultoung C	alibration Check				
	o Air ading:	~ <i>O.</i> ppm	Cal Gas Reading	498	pm	
BA	CKGROUND CO	ONCENTRATIONS CHECKS	5			
Upv	vind Location D	escription:	nechanic sh	P R	eading: 2,/	ppm
Dov	vnwind Location	Description:	G6	R	eading: 2,4p	ppm
Note	exe me	ceeded 20 miles per hour. eteorological conditions we	oserved to remain below the No rainfall had occurred wit re within the requested alte	thin the previous 2 ernatives of the LN	24 hours of the monitoring AR requirements on the ab	event. Therefore, site
. C S B.	LANDER NEEDER	Garage Caragina	Long the true careford	Dirigie	FIFTH TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE TO	

1		CALIBRATION A	ND PERTINEN	IT DATA	4
Date:	4-25-23 Alfredo Gu		Site Name:	Sonoma	
Inspector(s): Altrodo Gu	omez	Instrument	TVA 2020	
WEATHER	ROBSERVATIONS				
Wind S	peed: 4 MPH	Wind Direction:		Pressure: 29.95	<u>•</u>
Tempera	Air ature: 39 °F	General Weath Condition	ner Cloud 7	-	
CALIBRAT	ION INFORMATION				
Pre-monito	ring Calibration Precision Check				
precision m	Calibrate the instrument. Make the average algebraic differe ust be less than or equal to 10% Serial Number:	nce between the instrumen:	t reading and the c	zero air and the calibratio alibration gas as a percent Cal Gas Concentration:	n gas. Record the readings tage. The calibration 500ppm
Trial	Zero Air Reading	Cal Gas Reading	Cal Gas Co	onc -Cal Gas Reading	Response Time (seconds)
2	0	502	2		3
3	0	498 500	2		5
*		= 100% = 99 .7 4	- <u>1.3</u>	/500 x 100%	
Span Sensitivi	ty:	,			
Trial 1:	Counts Observed for the Span=		Trial 3:	s Observed for the Span≃	138656
C Trial 2:	ounters Observed for the Zero=	4272	Counter	s Observed for the Zero=	4187
11101 2.	Counts Observed for the Span=	140176			
Co	ounters Observed for the Zero=	4220			
Post Monitorir	ng Calibration Check		0	69	
Zero Air Reading:	1.5 ppm	Cal Gas Reading:	510 pp	om	
BACKGROUNG	CONCENTRATIONS CHECKS				
pwind Locatio	n Description:	mechanic G6	Shop RE	eading: 2, p	pm
lownwind Loca	ition Description:	96	Re	eading: 24 p	pm
otes:	Wind speed averages were ob exceeded 20 miles per hour. meteorological conditions we	No rainfall had occurred wi	thin the previous 2	4 hours of the monitoring	event. Therefore, site

SURFACE EMISSIONS MONITORING

		SURFACE EMISS	SIONS MONI	TORING	
		CALIBRATION A			1
Date:	4-25-23		Site Name:	Sonoma	
Inspector(s):	Jonathan Sel	alveda	Instrument	TVA 2020	
WEATHER OF	BSERVATIONS		-	1 771 20 20	
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	س ۱ است (۱ ا ۳ م ۱ ا ۳ م ۱ ا ۱ م م ۱ ا ۱ م م ۱ ا ا ا ا ا ا ا ا				
Wind Spee	d: MPH	Wind Direction:	=,	Pressure: 29.91	<u>5</u> "Hg
Temperature	e: 3 4°F	General Weath Condition	er cloudy	-	
CALIBRATION	INFORMATION				
Pre-monitoring	Calibration Precision Check				
and calculate ti	ibrate the instrument. Make the average algebraic differen the less than or equal to 10% al Number:	nce between the instrument of the calibration gas value	t reading and the o	a zero air and the calibration gas as a percen Calibration gas as a percen Cal Gas Concentration:	on gas. Record the readings tage. The calibration 500ppm
Trial	Zero Air Reading	Cal Gas Reading	Cal Gas C	oncCal Gas Reading	Response Time (seconds)
2	0	502	2		2
3	~0.1	500	1 7		4
		= 100%-	%	/500 x 100%	
pan Sensitivity: rial 1:			Trial 3:		
Cou	unts Observed for the Span=	172612	Count	s Observed for the Span=	172 3 68
	ters Observed for the Zero=	5003	Counte	rs Observed for the Zero=	4948
rial 2: Cou	unts Observed for the Span=	172776			
	ters Observed for the Zero=	4987			
ost Monitoring C	alibration Check				
ero Air	2.7	Cal Gas	_		
eading: —	ppm ppm	Reading:	503 p	pm	
ACKGROUND CO	ONCENTRATIONS CHECKS	0. m 1.1			
wind Location D	escription:	mechanic 56	shop R	eading: 2.6	ppm
wnwind Location	n Description	66	R	eading: 24 p	pm
ex	ind speed averages were ob ceeded 20 miles per hour. eteorological conditions we	No rainfall had occurred wit	thin the previous 2	4 hours of the monitoring	event. Therefore, site

STEER LONGE CONTRACTOR STATE S

		SURFACE EMISS	TIMONS MONIT	TOPING	
		CALIBRATION A			
Date:	5.2-23		Site Name:	Sonoma	
Inspector(s):	Bryan Ocho	00	Instrument:	TVA 2020	
WEATHER OF				ü	
Wind Speed	d: мрн	Wind Direction: SE	_	Barometric Pressure: 24.78	"Hg
Ai Temperature	11 6	General Weath Condition	er cloudy	-	
CALIBRATION	INFORMATION				
Pre-monitoring	Calibration Precision Check	k			
and calculate th	ne average algebraic differe the less than or equal to 10%	e a total of three measureme ence between the instrument % of the calibration gas value	reading and the c	zero air and the calibratio calibration gas as a percent Cal Gas Concentration:	n gas. Record the readings tage. The calibration 500ppm
Trial	Zero Air Reading	Cal Gas Reading	Cal Gas Co	oncCal Gas Reading	Response Time (seconds)
1	~0.1	500	D ₂		3
2	0	498	2		2
3	-0.2	507	2		5
	sion= Average Difference/C		1.3	/500 x 100%	
Span Sensitivity: Trial 1:			F.1.1.2		
	unts Observed for the Span	180266	Trial 3: Count	s Observed for the Span=	181266
	ters Observed for the Zero	= 5107	Counter	rs Observed for the Zero=	5110
<u>rial 2:</u> Cou	nts Observed for the Span	= 179420			•
	ters Observed for the Zero	(1 -			
ost Monitoring Ca					
ero Air eading:	2.3 ppm	Cal Gas Reading:	510 p	pm	
ACKGROUND CO	ONCENTRATIONS CHECK	5			
owind Location D	escription:	Flane	Re	eading: 2,3	mq
wnwind Location	n Description:	Entrance	Re	eading: 1.3 p	pm
ех	ceeded 20 miles per hour.	observed to remain below th No rainfall had occurred wi	thin the previous 2	24 hours of the monitoring	d no instantaneous speeds event. Therefore, site

SYCE I DIGGE CONTRACTOR CONTRACTOR STATE S

l		CALIBRATION AN	ID PERTINE	NT DATA	
Date:	5.2.23		Site Name:	Sonoma	
Inspector(s	Jonathan S	elytrector	Instrument:	TVA 2020	
WEATHER	OBSERVATIONS			(1)	
Wind Sp	eed: 6 MPH	Wind S Z Direction:	_	Barometric Pressure: 29.2	g "Hg
Tempera	Air ture: 46 °F	General Weathe Conditions	er Cloudy	_	
CALIBRATI	ON INFORMATION				
Pre-monitor	ing Calibration Precision Chec	sk			
and calculat	e the average algebraic differ st be less than or equal to 10	ke a total of three measureme rence between the instrument % of the calibration gas value.	reading and the o	g zero air and the calibratio calibration gas as a percen Cal Gas Concentration:	n gas. Record the readings tage. The calibration 500ppm
Trial	Zero Air Reading	Cal Gas Reading	Cal Gas C	oncCal Gas Reading	Response Time (seconds)
1	0	499	1	1	4
3	D	500	0		3
Span Sensitivii	v:	= 100%-	. '5	/500 x 100%	
Trial 1:		10 0 000	Trial 3:		
	Counts Observed for the Spa	4		ts Observed for the Span=	
Trial 2.	ounters Observed for the Zero		Counte	rs Observed for the Zero=	5490
(Counts Observed for the Spar	154964			
Co	unters Observed for the Zero	5501			
ost Monitorin	g Calibration Check				
ero Air eading:	ppm	Cal Gas Reading:	500 p	opm ⁴	
ACKGROUND	CONCENTRATIONS CHECK	KS			
owind Locatio	n Description:	Flan	R	leading: 2.3	ppm
ownwind Loca	tion Description:	Entrance	R	eading: 1,3	pm
otes:	exceeded 20 miles per hour	observed to remain below the . No rainfall had occurred wit rere within the requested alte	hin the previous :	24 hours of the monitoring	event: Therefore, site

WES DESIGNATURE - SAMMER FRANCE FRANCE FRANCE - PARTY - THE

SURFACE EMISSIONS MONITORING

		SURFACE EMIS			
		CALIBRATION A	ND PERTINE	NT DATA	
Date:	Andrew S	23	Site Name:	Sonoma	
Inspector(s):	Andrew 5	tone	Instrument:	TVA 2020	
WEATHER OBS	ERVATIONS			×	
Wind Speed:	7 MPH	Wind Direction: _ W		Barometric Pressure: 29.84	"Hg
Air Temperature:	49 °F	General Weatl Conditio	ns:Showers		
CALIBRATION IN	NFORMATION			-	
re-monitoring C	alibration Precision Check				
na carcarate the	ate the instrument, Make a average algebraic difference less than or equal to 10% of Number:	e between the instrumen	it reading and the c	calibration gas as a percen Cal Gas Concentration;	tage. The calibration 500ppm
ial	Zero Air Reading	Cal Gas Reading	ICal Gas Co	oncCal Gas Reading	I D. T. T. (
1	0.2	499		incCar Gas Reading	Response Time (second
2	0	498	2		-
3	Ó	448			4
		Average Difference:	*Perform recalibration i	f average difference is greater than	10
ibration Precisio	n= Average Difference/Cal (Gas Conc. X 100%			
		= 100%	99.8	/500 x 100%	
		= 99.8	%		
n Sensitivity:					
l 1:			Trial 3:		
Count	s Observed for the Span=		Count	s Observed for the Span=	155432
	s Observed for the Zero=	5922	Counter	s Observed for the Zero=	6452
Counts	s Observed for the Span=	58124			V 100-
Counters	s Observed for the Zero=	5070			

Span Sen.	sitivity:				
Trial 1:	Counts Observed for the Span= 1612 Counters Observed for the Zero= 59	108 22		Counts Observed for the sounters Observed for the	
Trial 2:	Counts Observed for the Span= 1581 Counters Observed for the Zero= 507	24 10		ounters observed for the	2010- 6-152
Post Monit Zero Air Reading:	toring Calibration Check	Cal Gas Reading:	.571	ppm	

BACKGROUND CONCENTRATIONS CHECKS

Trained Leavening of Motor Interest and Antonion

Upwind Location Description:

Mechanic chop

Reading:

Downwind Location Description:

Reading:

Notes:

Wind speed averages were observed to remain below the alternative requested 10 miles per hour and no instantaneous speeds exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site meteorological conditions were within the requested alternatives of the LMR requirements on the above mentioned date.

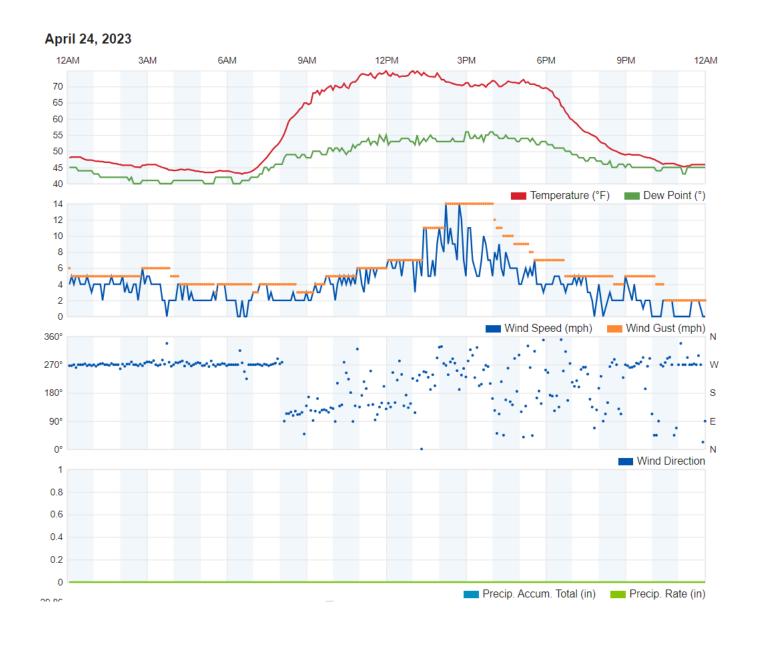
		SURFACE EMIS	SIONS MONI	TORING		
1		CALIBRATION A		-		
Date:	5-3-23		Site Name:	Sonoma		
Inspector(s):	5-3-23 Emmanuel +	267	Instrument:	TVA 2020		
WEATHER OF	BSERVATIONS			1777 2020		
Wind Speed	d: 7 MPH	Wind Direction:	_	Barometric Pressure: 29.8 4	∕ _ "Hg	
A Temperature	nir e:	General Weath Condition	ner ns: Shavers			
CALIBRATION	INFORMATION			-		
Pre-monitoring	; Calibration Precision Check					
and calculate th	brate the instrument. Make a he average algebraic difference be less than or equal to 10% of al Number:	e between the instrumen f the calibration gas value	t reading and the d	zero air and the calibration calibration gas as a percent Cal Gas Concentration:	n gas. Record the re age. The calibration	n
Trial	Zero Air Reading	Cal Gas Reading	I Cal Gas C	oncCal Gas Reading	Response Time (s	
1	0.1	498	2	or an east resumbl	4	iccond3
3	0.0	500 499	2		3	
Calibration Precise Calibratic Precise Calibration Precise Calibratic Prec	sion= Average Difference/Cal (/500 x 100%		
Trial 1:		15-24.7	Trial 3:			
Cou	unts Observed for the Span= _	153916	Count	s Observed for the Span=	155 432	2
	ters Observed for the Zero=	4778	Counter	rs Observed for the Zero=	4564	
Trial 2: Cou	ints Observed for the Span= _	159044				
Count	ters Observed for the Zero=	4530				
Post Monitoring Ca	alibration Check					
Zero Air Reading:	1.8 ppm DINCENTRATIONS CHECKS	Cal Gas Reading:	509 0	om ^{iq}		
		**Ch 1		> 1		
pwind Location D	escription:	echemic sh	ojo Re	eading:pp	pm	
lownwind Location	B	131 <u></u> (om	
lotes: Wi	ind speed averages were obse	erved to remain below the	e alternative reque	sted 10 miles per hour and	l no instantaneous :	speeds

exceeded 20 miles per hour. No rainfall had occurred within the previous 24 hours of the monitoring event. Therefore, site meteorological conditions were within the requested alternatives of the LMR requirements on the above mentioned date.

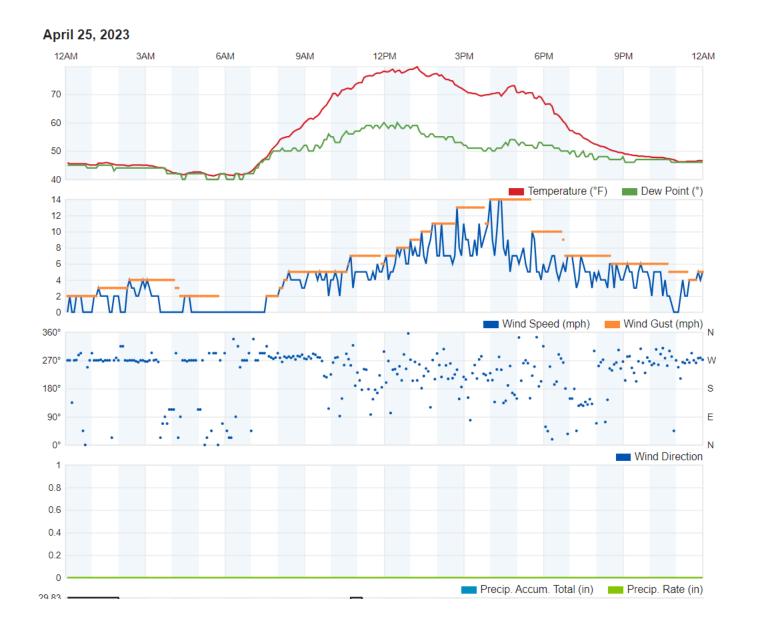
Mile of the market limited and and a second of the second

Attachment 6

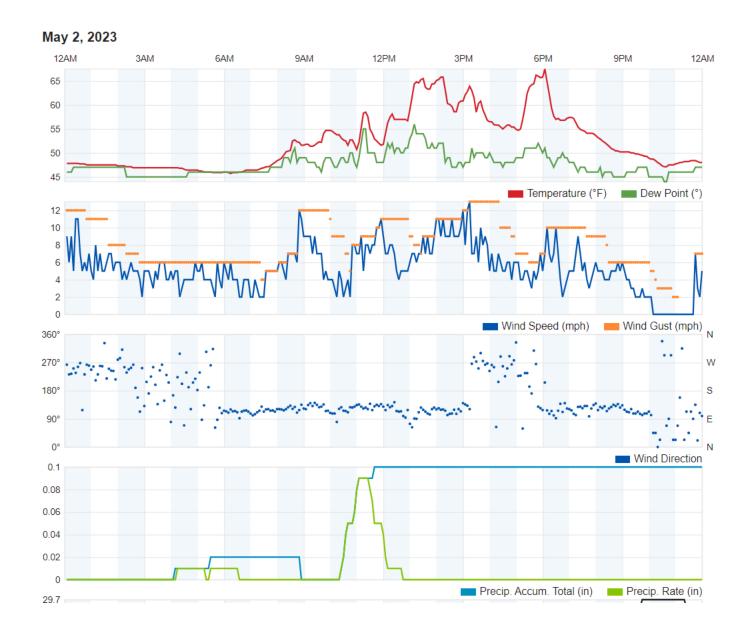
Weather Data



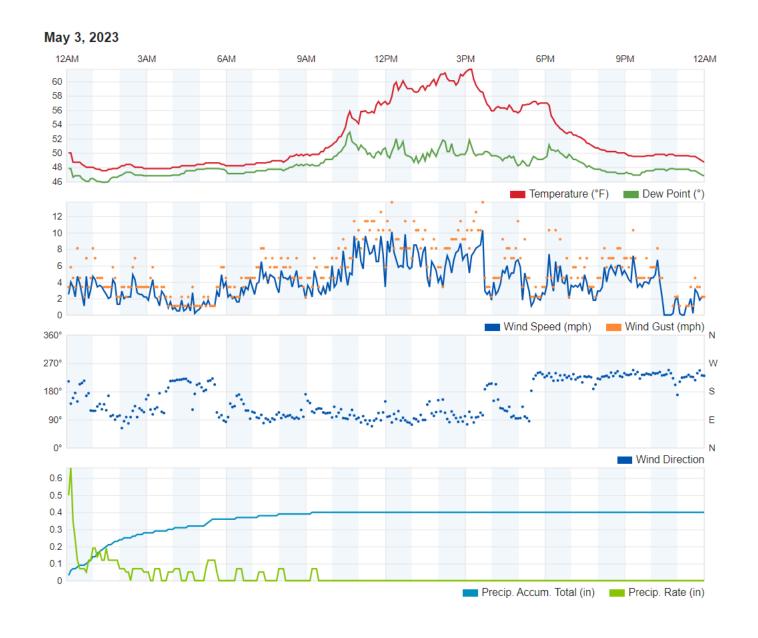
Second Quarter 2023
LMR Instantaneous Weather Data for April 24, 2023
Sonoma Central Landfill, Petaluma, California



Second Quarter 2023
LMR Instantaneous Weather Data for April 25, 2023
Sonoma Central Landfill, Petaluma, California



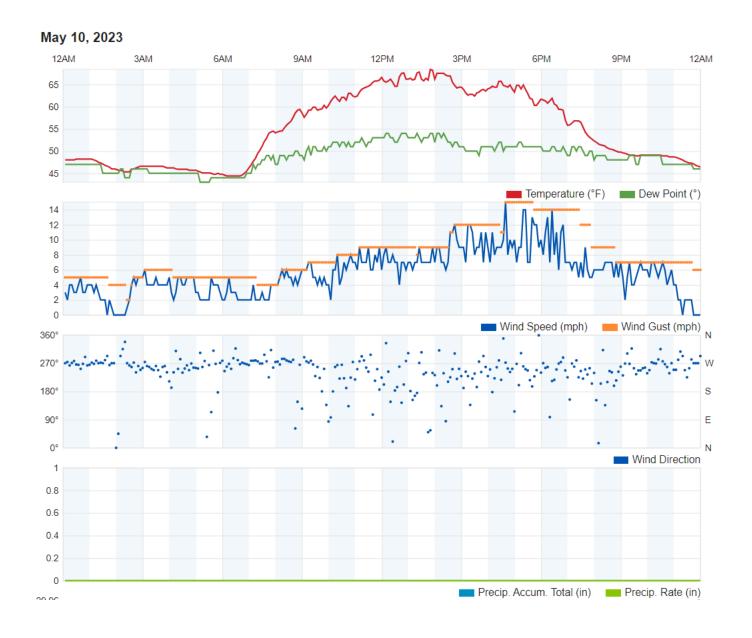
Second Quarter 2023
LMR Instantaneous Weather Data for May 2, 2023
Sonoma Central Landfill, Petaluma, California



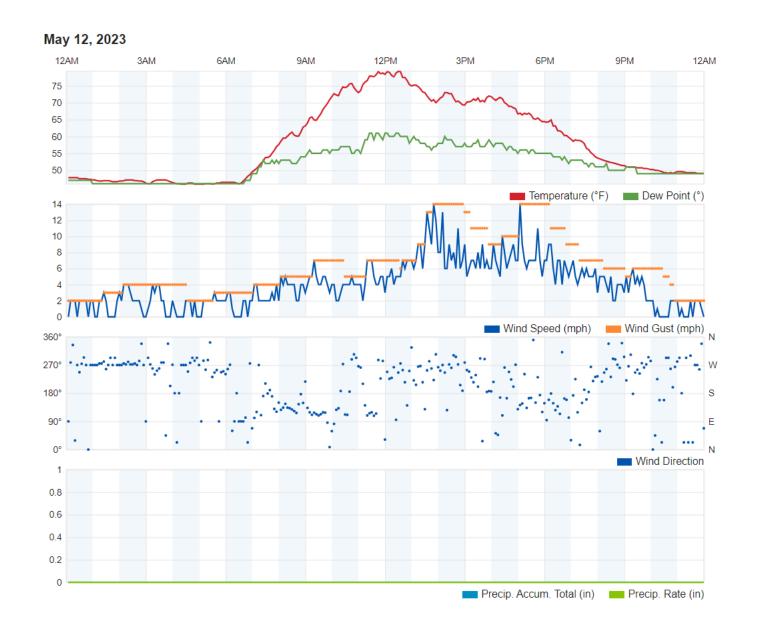
Second Quarter 2023

LMR Instantaneous Weather Data for May 3, 2023

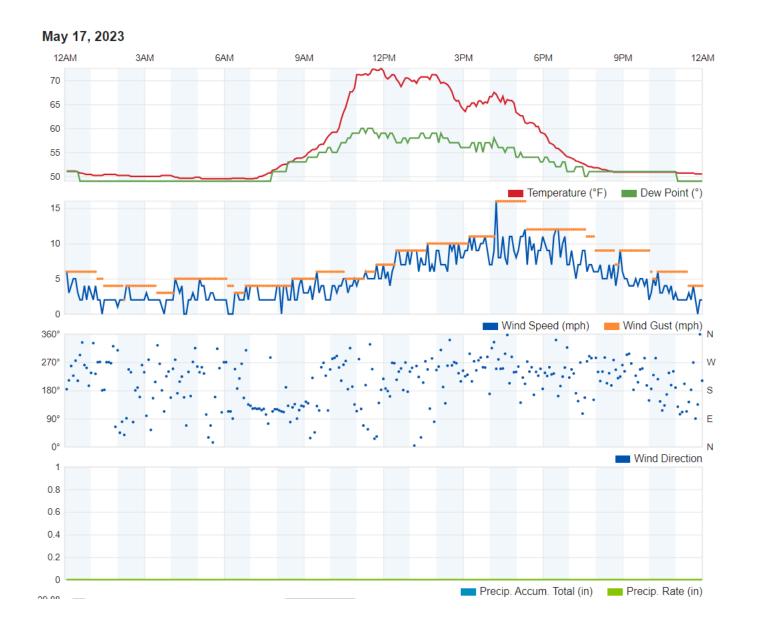
Sonoma Central Landfill, Petaluma, California



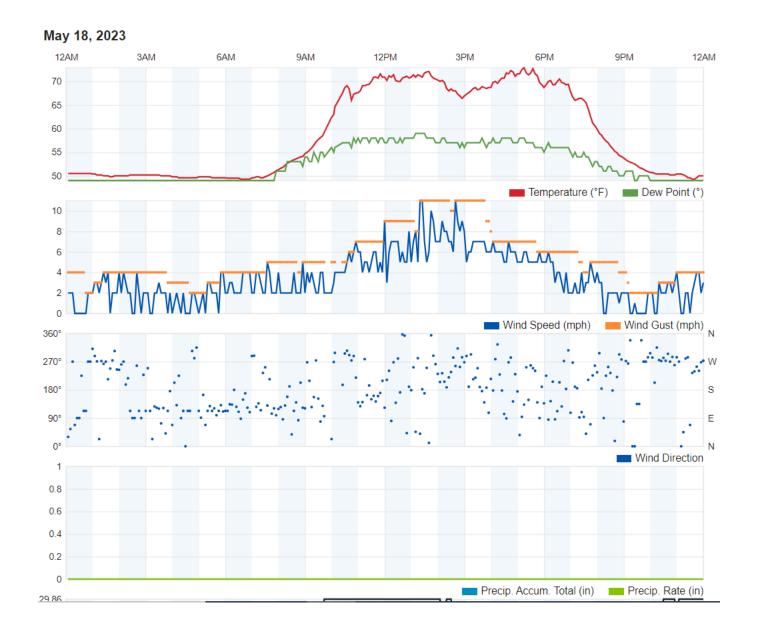
Second Quarter 2023
LMR Instantaneous Weather Data for May 10, 2023
Sonoma Central Landfill, Petaluma, California



Second Quarter 2023
LMR Instantaneous Weather Data for May 12, 2023
Sonoma Central Landfill, Petaluma, California



Second Quarter 2023
LMR Instantaneous Weather Data for May 17, 2023
Sonoma Central Landfill, Petaluma, California



Second Quarter 2023
LMR Instantaneous Weather Data for May 18, 2023
Sonoma Central Landfill, Petaluma, California

Root Cause Analysis and Corrective Analysis Forms
Noot oddoc Analysis and oorrective Analysis Forms



Date of Initial Exceedance:	2/6/2023
Collection Device ID:	SCEW2016
Pressure Reading:	0.35

Root Cause Analysis		
Was the reason for the positive pressure due to one of the follo	wing:	
A fire or increased well temperature.	☐ Yes	⊠ No
Use of a geomembrane or synthetic cover.	☐ Yes	⊠ No
A decommissioned well.	☐ Yes	⊠ No
• If YES to ANY of the above, exempt as per 40 CFR 62.16720(a)(3)(iii)/ 40 CFR §63.1958(b).		
If NO to <u>ALL</u> of the above, continue the form.		
Describe what was inspected.		
Vacuum source at the wellhead (lateral is buried/inaccessible)		
Describe what was determined to be the root cause of the exceedance.		
Vacuum lateral issue underground causing lack of vacuum to well. Need to perform		
construction to run a new vacuum lateral to this well location.		
Determine the required next steps.		
Was the positive pressure remediated within 60 days since	□ Yes	⊠ No
the initial exceedance?		⊠ NU
If YES, keep records of Root Cause Analysis. No reporting is required.		
If NO, continue with Corrective Action Analysis and Implementation Plan and submit		
Notification to state agency within 75 days of initial exceedance.		



Corrective Action Analysis and Implementation Schedule

Date of Initial Exceedance:	2/6/2023
Collection Device ID:	SCEW2016
Pressure Reading:	0.35

Corrective Action Analysis
Describe the corrective actions taken to remediate exceedance.
Well head, well casing, and vacuum lateral source inspections.

Implementation Schedule		
Expected Start Date:	5/1/2023	
Expected Completion Date:	6/3/2023	
Provide a description of proposed repairs and/or remedial action required and supporting		
information for implementation timeframe.		
New vacuum lateral source needs to be constructed to this location.		

Final Steps		
Determine the required next steps.		
Is the remediation expected to take <u>less than 120 days</u> since initial exceedance per implementation schedule?	⊠ Yes	□ No
initial exceedance per implementation schedule:		

- If YES, send notification to state agency within 75 days of initial exceedance. Include Root Cause Analysis, Corrective Action Analysis, and Implementation Schedule in the next NSPS Report.
- If NO, send Root Cause Analysis, Corrective Action Analysis, and Implementation Schedule to state agency within 75 days for approval and include in next NSPS Report.



Date of Initial Exceedance:	2/20/2023
Collection Device ID:	SCEW2103
Pressure Reading:	0.15

Root Cause Analysis		
Was the reason for the positive pressure due to one of the follo	wing:	
A fire or increased well temperature. \Box Yes \boxtimes No		
Use of a geomembrane or synthetic cover.	☐ Yes	⊠ No
A decommissioned well.	☐ Yes	⊠ No
• If YES to ANY of the above, exempt as per 40 CFR 62.16720(a)(3)(iii)/ 40 CFR §63.1958(b).		
• If NO to <u>ALL</u> of the above, continue the form.		
Describe what was inspected.		
Vacuum source at the wellhead (lateral is buried/inaccessible)		
Describe what was determined to be the root cause of the exceedance.		
The wellhead valve needs to be adjusted by the technician.		
Determine the required next steps.		
Was the positive pressure remediated within 60 days since	⊠ Yes	□ No
the initial exceedance?	△ 162	
 If YES, keep records of Root Cause Analysis. No reporting is required. 		
• If NO, continue with Corrective Action Analysis and Implementation Plan and submit		nd submit
Notification to state agency within 75 days of initial exceedance.		



Date of Initial Exceedance:	4/28/2023
Collection Device ID:	SCV140-0
Pressure Reading:	0.11

Root Cause Analysis		
Was the reason for the positive pressure due to one of the follo	wing:	
A fire or increased well temperature. \Box Yes \boxtimes No		
Use of a geomembrane or synthetic cover.	☐ Yes	⊠ No
A decommissioned well.		⊠ No
• If YES to ANY of the above, exempt as per 40 CFR 62.16720	(a)(3)(iii)/ 40 C	FR §63.1958(b).
• If NO to <u>ALL</u> of the above, continue the form.		
Describe what was inspected.		
Vacuum source at the wellhead (lateral is buried/inaccessible)		
Describe what was determined to be the root cause of the exceedance.		
The wellhead valve needs to be adjusted by the technician.		
Determine the required next steps.		
Was the positive pressure remediated within 60 days since	⊠ Yes	□ No
the initial exceedance?	△ 162	
 If YES, keep records of Root Cause Analysis. No reporting is required. 		
• If NO, continue with Corrective Action Analysis and Implementation Plan and submit		
Notification to state agency within 75 days of initial exceedance		



TEMPERATURE EXCEEDANCE

Corrective Action Analysis and Implementation Schedule

Date of Initial Exceedance:	6/27/2023
Collection Device ID:	SCV125A0
Temperature Reading:	131.7

Root Cause Analysis		
Has the owner/operator received approval from the state		
agency to operate at a temperature higher than 55°C (131°F) \square Yes \square No		
for this well?		
• If YES, exempt as per 40 CFR 62.16720(a)(4)(iii)/ 40 CFR 6	3.1958(c).	
If NO, continue the form.		
Describe what was inspected.		
Gas Sample and de-watering system.		
Describe what was determined to be the root cause of the exceedance.		
Elevated microbial activity		
Determine the required next steps.		
Was the temperature exceedance remediated within 60 days	⊠ Yes	ПМо
since the initial exceedance?	△ res	□ No
• If YES, keep records of Root Cause Analysis. No reporting required.		
• If NO, continue with Corrective Action Analysis and Implementation Plan and submit		
Notification to state agency within 75 days of initial exceedance.		



Date of Initial Exceedance:	7/10/2023
Collection Device ID:	SCV223-0
Pressure Reading:	1.87

Root Cause Analysis						
Was the reason for the positive pressure due to one of the follo	wing:					
A fire or increased well temperature.	☐ Yes	⊠ No				
Use of a geomembrane or synthetic cover.	☐ Yes	⊠ No				
A decommissioned well.	☐ Yes	⊠ No				
• If YES to ANY of the above, exempt as per 40 CFR 62.16720	(a)(3)(iii)/ 40 (CFR §63.1958(b).				
• If NO to <u>ALL</u> of the above, continue the form.						
Describe what was inspected.						
Vacuum source at the wellhead (lateral is buried/inaccessible)						
Describe what was determined to be the root cause of the exceedance.						
The wellhead valve needs to be adjusted by the technician.						
Determine the required next steps.						
Was the positive pressure remediated within 60 days since ☐ Yes ☐ No						
the initial exceedance?						
 If YES, keep records of Root Cause Analysis. No reporting is required. 						
• If NO, continue with Corrective Action Analysis and Implementation Plan and submit						
Notification to state agency within 75 days of initial exceedance.						

75-Day Notifications



Sonoma Central Landfill 500 Mecham Road, Petaluma, CA 94550 o: 510.301.9387

April 20, 2023

Brenda Cabral Air Quality Engineer Bay Area Air Quality Management District 375 Beale Street, Suite 600 San Francisco, CA 94105

Re:

75-Day Notification of Pressure Exceedance Sonoma Central Landfill, Petaluma, California

Facility Number A2254

Ms. Cabral:

Republic Services of Sonoma County, Inc., owner and operator of the Sonoma Central Landfill (Sonoma), located in Petaluma, California, hereby provides the Bay Area Air Quality Management District (BAAQMD or District) with a 75-day notification pursuant to the compliance provisions identified in Title 40 of the Code of Federal Regulations (CFR) 63.1981(j)(1) for a pressure exceedance at SCEW2016.

Well SCEW2016 had an initial pressure exceedance of 0.35 inches water column ("H₂O.) on March 6, 2023. Corrective actions were initiated within 5 days as the valve was adjusted; however, the well could not be brought back into compliance within 15 days.

As required under 40 CFR 63.1960(a)(3)(i)(A), a root cause analysis and a corrective action analysis and implementation schedule were completed within 60 days from the original exceedance. Copies of these forms are attached. All the steps for compliance were conducted, however, the well remains in exceedance but will be remediated prior to the 120-day deadline. As such, this 75-day notification is required.

If you have any questions or require additional information, please do not hesitate to contact Derek Cheney at (510) 301-9387 or by email at DCheney@republicservices.com or Michael Flanagan at (925) 421-9768 or by email at MFlanagan@scsengineers.com.

Sincerely,

Derek Cheney

Environmental Manager Sonoma Central Landfill

cc:

Michael Flanagan, SCS Field Services

Maria Bowen, SCS Engineers Administrator, U.S. EPA Region 9

Attachment A: Root Cause Analysis Form and Corrective Action Analysis and Implementation Schedule

Form

Attachment A: Root Cause Analysis Form and Corrective Action Analysis and Implementation Schedule Form



Date of Initial Exceedance:	3/6/2023
Collection Device ID:	SCEW2016
Pressure Reading:	0.35

Root Cause Analysis						
Was the reason for the positive pressure due to one of the follo	wing:					
A fire or increased well temperature.	☐ Yes	\boxtimes No				
Use of a geomembrane or synthetic cover.	☐ Yes	⊠ No				
A decommissioned well.	☐ Yes	⊠ No				
• If YES to ANY of the above, exempt as per 40 CFR 62.16720	(a)(3)(iii)/ 40 C	FR §63.1958(b).				
• If NO to <u>ALL</u> of the above, continue the form.						
Describe what was inspected.						
Vacuum source at wellhead (lateral is buried/inaccessible)						
Describe what was determined to be the root cause of the exceedance.						
Lack of vacuum on lateral riser, due to construction						
Determine the required next steps.						
Was the positive pressure remediated within 60 days since						
the initial exceedance? \square Yes \square No						
If YES, keep records of Root Cause Analysis. No reporting required.						
• If NO, continue with Corrective Action Analysis and Implementation Plan and submit						
Notification to state agency within 75 days of initial exceedance						



Corrective Action Analysis and Implementation Schedule

Date of Initial Exceedance:	3/6/2023
Collection Device ID:	SCEW2016
Pressure Reading:	0.35

Corrective Action Analysis	
Describe the corrective actions taken to remediate exceedance.	
Well head, well casing, and vacuum lateral source inspections.	

Implementation Schedule					
Expected Start Date:	5/1/2023				
Expected Completion Date:	6/3/2022				
Provide a description of proposed repairs and/or remedial action required and supporting					
information for implementation timeframe.					
New vacuum lateral source nee	eds to be constructed to this location.				

Final Steps		
Determine the required next steps.		
Is the remediation expected to take <u>less than 120 days</u> since	⊠ Yes	□ No
initial exceedance per implementation schedule?	<u> </u>	

- If YES, send notification to state agency within 75 days of initial exceedance. Include Root Cause Analysis, Corrective Action Analysis, and Implementation Schedule in the next NSPS Report.
- If NO, send Root Cause Analysis, Corrective Action Analysis, and Implementation Schedule to state agency within 75 days for approval and include in next NSPS Report.

Appendix G - Title V Semi-Annual Report

SITE:			FACILITY ID#:		Ī
SONOMA COU	NTY CENTRAL LA	NDFILL		A2254	
REPORTING PERIOD:	from	through			
	02/01/2023		07/31/2023		

CERTIFICATION:

I declare, under penalty of perjury under the laws of the state of California, that, based on information and belief formed after reasonable inquiry, all information provided in this reporting package is true, accurate, and addresses all deviations during the reporting period:

Signature of Responsible Official

Date

Ken Lewis

Name of Responsible Official (please print)

General Manager

Title of Responsible Official (please print)

Mail to:

Director of Compliance and Enforcement BAAQMD 375 Beale Street, Suite 600 San Francisco, CA 94105

Attn: Title V reports

SITE:			FACILITY ID#:	
SONOMA COU	NTY CENTRAL LA	NDFILL		A2254
REPORTING PERIOD:	from	through		
	02/01/2023		07/31/2023	

List of Permitted Sources and Abatement Device in Title V Permit

Permit Unit Number	Equipment Description
S-#	Description
S-1	Landfill with Gas Collection System
S-15	Landfill Gas Compression Plant
S-22	Waste and Cover Material
S-23	Mobile Surface Equipment
A-4	Landfill Gas Flare (Control Device for S-1)
A-8	Waste Sprays (Control Device for S-1)
S-4, S-5, S-6, S-7, S-9,	Lean Burn Internal Combustion Engines and Generator Sets
S-10, S-11, S-12, S-13,	
S-14	

Notes:

- Condition Number 26507 Applies to all sources at the facility. All conditions have been reviewed for compliance, and the site is in compliance.
- S-24 (Portable reciprocating engine, 195 hp, portable landfill truck tipper)
 - On September 21, 2021, the S-24 Tipper Engine was removed from the site and replaced with a 49 horsepower (HP) engine. This source operated under a permit to operate (PTO) (Condition No. 26171) which has not yet been incorporated into the Title V Permit. The site was in compliance up to the date the source was removed from the site.

Site: Sonor	na County Central Landfill	Facility ID#:	A225	54
	S-1 LANDFILL WITH GAS COLLECTION SYSTEM; S-15 ESSION PLANT; S-22 WASTE AND COVER MATERIAL; S-EQUIPMENT; A-4 LANDFILL GAS FLARE	Reporting Period:	from	02/01/2023 through 07/31/2023

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Collection System Installation Dates	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 4044, Parts 19d, f, g, h	Records	Periodic / On event basis	BAAQMD 8-34- 304.1	For Inactive/Closed Areas: collection system components must be installed and operating by 2 years + 60 days after initial waste placement	Continuous	N/A
Collection System Installation Dates	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 4044, Parts 19d, f, g, h	Records	Periodic / On event basis	BAAQMD 8-34- 304.2 and BAAQMD Condition # 4044, Part 4	For Active Areas: Collection system components must be installed and operating by 5 years + 60 days after initial waste placement	Continuous	N/A

Site:	Sonom	na County Central Landfill	Facility ID#:	A2254		
Permitted L	Init:	S-1 LANDFILL WITH GAS COLLECTION SYSTEM; S-15	Reporting Period:	from	02/01/2023 through 07/31/2023	
LANDFILL GAS (COMPRE	SSION PLANT; S-22 WASTE AND COVER MATERIAL; S-				
23 MOBILE SUF	FACE EC	QUIPMENT; A-4 LANDFILL GAS FLARE				

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Collection	BAAQMD	Records	Periodic / On	BAAQMD 8-34-	For Any	Continuous	N/A
System	8-34-501.7 and		event basis	304.3 and	Uncontrolled Areas		
Installation	501.8 and			BAAQMD	or Cells: collection		
Dates	BAAQMD			Condition #	system		
	Condition #			4044, Part 4	components must		
	4044, Parts 19e-				be installed and		
	h				operating within 60		
					days after the		
					uncontrolled area		
					or cell accumulates		
					1,000,000 tons of		
					decomposable		
					waste		
Collection	40 CFR	Records	Periodic / On	40 CFR 60.753	For Inactive/Closed	Continuous	N/A
System	60.758(a), (d)(1)		event basis	(a)(2) and 60.755	Areas: collection		
Installation	and (d)(2), and			(b)(2)	system		
Dates	60.759(a)(3) and				components must		
	BAAQMD				be installed and		
	Condition #				operating by 2		
	4044, Parts 19d,				years + 60 days		
	f, g				after initial waste		
					placement		

Site: S	noma County Central Landfill	Facility ID#: A2254
	it: S-1 Landfill with Gas Collection Systi MPRESSION PLANT; S-22 WASTE AND COVER MATE CE EQUIPMENT; A-4 LANDFILL GAS FLARE	EM; S-15 Reporting Period: from 02/01/2023 through 07/31/2023 through 07/31/2023

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Collection System Installation Dates	40 CFR 60.758(a), (d)(1) and (d)(2) and BAAQMD Condition # 4044, Parts 19d, f, g	Records	Periodic / On event basis	40 CFR 60.753 (a)(1) and 60.755 (b)(1)	For Active Areas: Collection system components must be installed and operating by 5 years + 60 days after initial waste placement	Continuous	N/A
Gas Flow	BAAQMD Condition #4044, Part 11 and Condition #19933, Part 4	Gas Flow Meter	Continuous	BAAQMD 8-34-301 and 301.1; BAAQMD Condition # 4044, Parts 4a, 5, 8, and 9; BAAQMD Condition #19933, Parts 1 & 2	Landfill gas collection system shall operate continuously and all collected gases shall be vented to a properly operating control system	Continuous	N/A

Site:	Sonom	na County Central Landfill	Facility ID#:	A225	54
	COMPRE	S-1 LANDFILL WITH GAS COLLECTION SYSTEM; S-15 SSION PLANT; S-22 WASTE AND COVER MATERIAL; S-QUIPMENT; A-4 LANDFILL GAS FLARE	Reporting Period:	from	02/01/2023 through 07/31/2023

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Gas Flow	BAAQMD 8-34-501.10 and 508	Gas Flow Meter and Recorder (every 15 minutes)	Continuous	BAAQMD 8-34-301 and 301.1; BAAQMD Condition # 4044, Parts 4a, 5, 8, and 9; BAAQMD Condition #19933, Parts 1 & 2	Landfill gas collection system shall operate continuously and all collected gases shall be vented to a properly operating control system	Continuous	N/A
Gas Flow	40 CFR 60.756(b)(2) (i or ii) and 60.758(c)(2)	Gas Flow Meter and Recorder (every 15 minutes) or Monthly Inspection of Bypass Valve and Lock and Records	Continuous. Periodic/ Monthly	40 CFR 60.753(a) and (e)	Operate a Collection System in each area or cell and vent all collected gases to a properly operating control system	Continuous	N/A

Site:	Sonom	na County Central Landfill	Facility ID#:	A225	54
	COMPRE	S-1 LANDFILL WITH GAS COLLECTION SYSTEM; S-15 SSION PLANT; S-22 WASTE AND COVER MATERIAL; S-QUIPMENT; A-4 LANDFILL GAS FLARE	Reporting Period:	from	02/01/2023 through 07/31/2023

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Collection	BAAQMD	Operating	Periodic / Daily	BAAQMD 8-34-	240 hours per year	Continuous	N/A
and	8-34-501.1 and	Records		113.2	and		
Control	BAAQMD				5 consecutive days		
Systems	Condition #						
Shutdown	4044, Part 19i						
Time							
Collection	40 CFR 60.7(b),	Operating	Periodic / Daily	40 CFR	5 days per event	Continuous	N/A
System	60.757(f)(2) and	Records (all		60.755(e)	for collection		
Startup	(f)(4)	occurrences			system or 1 hour		
Shutdown		and duration			for control system		
or		of each)					
Malfunctio							
n							
Periods of	BAAQMD	Operating	Periodic / Daily	BAAQMD 1-	≤ 15 consecutive	Continuous	N/A
Inoperation	1-523.4	Records for		523.2	days		
for		All			per incident and		
Parametric		Parametric			≤30 calendar days		
Monitors		Monitors			per 12-month		
					period		

Site: S	noma County Central Landfill	Facility ID#: A2254	
	it: S-1 Landfill with Gas Collection System MPRESSION PLANT; S-22 WASTE AND COVER MATE CE EQUIPMENT; A-4 LANDFILL GAS FLARE	RIAL; S- Reporting Period: from 02/01/2023 through 0	17/31/2023

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Continuous Monitors	40 CFR 60.7(b)	Operating Records for All Continuous Monitors	Periodic / Daily	40 CFR 60.13(e)	Requires Continuous Operation except for breakdowns, repairs, calibration, and required span adjustments	Continuous	N/A
Wellhead Pressure	BAAQMD 8-34-414, 501.9 and 505.1	Monthly Inspection and Records	Periodic / Monthly	BAAQMD 8-34- 305.1	< 0 psig	Intermittent	On June 28, 2023, the BAAQMD issued NOV A61573 to Sonoma Central for alleged positive pressure detected at Well SCV140-0 during a regulatory inspection conducted on June 22 and 26, 2023. A combined 10 and 30-day Title V Deviation Report and NOV Response letter was submitted to the BAAQMD on July 7, 2023.
Wellhead Pressure	40 CFR 60.755(a)(3), 60.756(a)(1), and 60.758(c) and (e)	Monthly Inspection and Records	Periodic / Monthly	40 CFR 60.753(b)	< 0 psig	Continuous	N/A

Site:	Sonom	na County Central Landfill	Facility ID#:	A225	54
Permitte	ed Unit:	S-1 LANDFILL WITH GAS COLLECTION SYSTEM; S-	5 Reporting Po	eriod: from	02/01/2023 through 07/31/2023
LANDFILL (GAS COMPRE	ssion Plant; S-22 Waste and Cover Material;	•		
23 Mobile	SURFACE EC	QUIPMENT; A-4 LANDFILL GAS FLARE			

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Temperatu	BAAQMD	Monthly	Periodic /	BAAQMD 8-34-	< 55 °C (< 131 °F),	Continuous	N/A
re of Gas	8-34-414, 501.9	Inspection	Monthly	305.2			
at	and 505.2	and Records					
Wellhead							
Temperatu	40 CFR	Monthly	Periodic /	40 CFR	< 55 °C	Continuous	N/A
re of Gas	60.755(a)(5),	Inspection	Monthly	60.753(c)			
at	60.756(a)(3), and	and Records					
Wellheads	60.758(c) and (e)						
Gas	BAAQMD	Monthly	Periodic /	BAAQMD	N ₂ < 20% OR O ₂ <	Continuous	N/A
Concentrat	8-34-414, 501.9	Inspection	Monthly	8-34-305.3 or	5%		
ion at	and 505.3 or	and Records		305.4			
Wellhead	505.4						
Gas	40 CFR	Monthly	Periodic /	40 CFR	N2 < 20% OR O ₂ <	Continuous	N/A
Concentrat	60.755(a)(5),	Inspection	Monthly	60.753(c)	5%		
ion at	60.756(a)(2), and	and Records					
Wellhead	60.758(c) and (e)						
Well	BAAQMD	Records	Periodic / Daily	BAAQMD 8-34-	No more than 5	Continuous	N/A
Shutdown	8-34-116.5 and			116.2	wells at a time or		
Limits	501.1				10% of total		
					collection system,		
					whichever is less		
Well	BAAQMD	Records	Periodic / Daily	BAAQMD 8-34-	< 24 hours per well	Continuous	N/A
Shutdown	8-34-116.5 and			116.3			
Limits	501.1						

Site: S	noma County Central Landfill	Facility ID#: A2254	
	it: S-1 Landfill with Gas Collection System MPRESSION PLANT; S-22 WASTE AND COVER MATE CE EQUIPMENT; A-4 LANDFILL GAS FLARE	RIAL; S- Reporting Period: from 02/01/2023 through 0	17/31/2023

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Well	BAAQMD	Records	Periodic / Daily	BAAQMD 8-34-	No more than 5	Continuous	N/A
Shutdown	8-34-117.6 and			117.4	wells at a time or		
Limits	501.1				10% of total		
					collection system,		
					whichever is less		
Well	BAAQMD	Records	Periodic / Daily	BAAQMD 8-34-	24 hours per well	Continuous	N/A
Shutdown	8-34-117.6 and			117.5			
Limits	501.1						
TOC (Total	BAAQMD	Quarterly	Periodic /	BAAQMD 8-34-	Component Leak	Continuous	N/A
Organic	8-34-501.6 and	Inspection of	Quarterly	301.2	Limit: < 1000 ppmv		
Com-	503	collection			as methane		
pounds		and control					
Plus		system					
Methane)		components					
		with OVA					
		and Records					

Site: Sonor	na County Central Landfill	Facility ID#:	A225	54
	S-1 LANDFILL WITH GAS COLLECTION SYSTEM; S-15 ESSION PLANT; S-22 WASTE AND COVER MATERIAL; S-EQUIPMENT; A-4 LANDFILL GAS FLARE	Reporting Period:	from	02/01/2023 through 07/31/2023

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
TOC	BAAQMD	Monthly	Periodic /	BAAQMD 8-34-	Surface Leak Limit:	Intermittent	On June 28, 2023, the BAAQMD
	8-34-415, 416,	Visual	Monthly,	303	< 500 ppmv as		issued NOV A61575 to Sonoma
	501.6, 506 and	Inspection of	Quarterly, and		methane at 2		Central for alleged surface leaks
	510	Cover,	on an Event		inches above		detected at multiple wells during a
		Quarterly	Basis		surface		regulatory inspection conducted on
		Inspection					June 22 and 26, 2023.
		with OVA of					
		Surface,					A combined 10 and 30-day Title V
		Various					Deviation Report and NOV Response
		Reinspection					letter was submitted to the BAAQMD
		Times for					on July 7, 2023.
		Leaking					
		Areas, and					
		Records					

Site:	Sonom	na County Central Landfill	Facility ID#:	Facility ID#: A2254				
	COMPRE	S-1 LANDFILL WITH GAS COLLECTION SYSTEM; S-15 SSION PLANT; S-22 WASTE AND COVER MATERIAL; S-QUIPMENT; A-4 LANDFILL GAS FLARE	Reporting Period:	from	02/01/2023 through 07/31/2023			

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
TOC	40 CFR 60.755(c)(1), (4) and (5), 60.756(f), and 60.758(c) and (e)	Monthly Visual Inspection of Cover, Quarterly Inspection with OVA of Surface, Various Reinspection Times for Leaking Areas, and Records	Periodic / Monthly, Quarterly, and on an Event Basis	40 CFR 60.753(d)	<500 ppmv as methane at 5-10 cm from surface	Continuous	N/A
Non- Methane Organic Com- pounds (NMOC)	BAAQMD 8-34-412 and 8- 34-501.4 and BAAQMD Condition # 4044, Parts 17 and 19m	Initial and Annual Source Tests	Periodic / Annual	BAAQMD 8-34- 301.3	> 98% removal by weight OR < 30 ppmv, dry basis @ 3% O2, expressed as methane	Continuous	N/A

Site:	Sonom	na County Central Landfill	Facility ID#:	A225	54
Permitted L	Init:	S-1 LANDFILL WITH GAS COLLECTION SYSTEM; S-15	Reporting Period:	from	02/01/2023 through 07/31/2023
LANDFILL GAS (COMPRE	SSION PLANT; S-22 WASTE AND COVER MATERIAL; S-			
23 MOBILE SUF	FACE E	QUIPMENT; A-4 LANDFILL GAS FLARE			

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
NMOC	40 CFR 60.8 and	Initial Source	Periodic	40 CFR	98% removal by	Continuous	N/A
	60.752(b)	Test and		60.752(b)	weight		
	(2)(iii)(B) and	Records		(2)(iii)(B)	OR		
	60.758				< 20 ppmv dry @		
	(b)(2)(ii)				3% O2, expressed		
					as hexane		
NOx	BAAQMD	Annual	Periodic /	BAAQMD	0.05 lb/MMBTU (as	Continuous	N/A
	Condition #	Source Test	Annual	Condition #	NO2)		
	4044,			4044,			
	Part 17			Part 11			
CO	BAAQMD	Annual	Periodic /	BAAQMD	0.20 lb/MMBTU	Continuous	N/A
	Condition #	Source Test	Annual	Condition #			
	4044,			4044,			
	Part 17			Part 12			
Temperatu	BAAQMD	Temperature	Continuous	BAAQMD	CT > 1400°F	Continuous	N/A
re of	8-34-501.3 and	Sensor and		Condition #			
Combustio	507 and	Recorder		4044,			
n Zone	BAAQMD	(continuous)		Part 10			
(CT)	Condition #						
	4044, Parts 16						
	and 19l						

Site:	Sonom	na County Central Landfill	Facility ID#:	A225	54
Permitted L	Init:	S-1 LANDFILL WITH GAS COLLECTION SYSTEM; S-15	Reporting Period:	from	02/01/2023 through 07/31/2023
LANDFILL GAS (COMPRE	SSION PLANT; S-22 WASTE AND COVER MATERIAL; S-			
23 MOBILE SUF	FACE E	QUIPMENT; A-4 LANDFILL GAS FLARE			

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Temperatu	40 CFR	Temperature	Continuous	40 CFR 60.758	CT (3-hour	Continuous	N/A
re of	60.756(b)(1) and	Sensor and		(c)(1)(i)	average)		
Combustio	60.758	Recorder			> (CT _{PF} – 28 °C),		
n Zone	(b)(2)(i)	(measured			where CT _{PF} is the		
(CT)		every 15			average		
		minutes and			combustion		
		averaged			temperature during		
		over			the most recent		
		performance			complying		
		test time			performance test		
		period and					
		3-hours)					
Total	BAAQMD	Records	Periodic / Daily	BAAQMD 8-2-	15 pounds/day or	Continuous	N/A
Carbon	Condition #			301	300 ppm, dry basis		
	4044, Part 21a-c				(applies only to		
					aeration of or use		
					as cover soil of soil		
					containing < 50		
					ppmw of volatile		
					organic		
					compounds)		

Site:	Sonom	na County Central Landfill	Facility ID#:	Facility ID#: A2254				
	COMPRE	S-1 LANDFILL WITH GAS COLLECTION SYSTEM; S-15 SSION PLANT; S-22 WASTE AND COVER MATERIAL; S-QUIPMENT; A-4 LANDFILL GAS FLARE	Reporting Period:	from	02/01/2023 through 07/31/2023			

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Amount of	BAAQMD	Records	Periodic / On	BAAQMD 8-40-	1 cubic yard per	Continuous	N/A
Contamina	Condition #		Event Basis	116.1	project		
ted Soil	4044, Part 20I						
Aerated or							
Used as							
Cover							
Amount of	BAAQMD	Records	Periodic / On	BAAQMD 8-40-	8 cubic yards per	Continuous	N/A
Contamina	8-40-116.2 and		Event Basis	116.2	project, provided		
ted Soil	BAAQMD				organic content		
Aerated or	Condition #				< 500 ppmw		
Used as	4044, Part 20I				and limited to 1		
Cover					exempt project per		
					3 month period		
Amount of	BAAQMD	Records	Periodic / On	BAAQMD 8-40-	Prohibited for Soil	Continuous	N/A
Contamina	Condition #		Event Basis	301	with Organic		
ted Soil	4044, Part 20I				Content >50 ppmw		
Aerated or					unless exempt per		
Used as					BAAQMD 8-40-		
Cover					116, 117, or 118		
Amount of	None	N/A	None	BAAQMD 8-40-	Soil Contaminated	Continuous	N/A
Accidental				117	by Accidental		
Spillage					Spillage of		
					< 5 Gallons of		
					Liquid Organic		
					Compounds		

Site: S	noma County Central Landfill	Facility ID#: A2254	
	it: S-1 Landfill with Gas Collection System MPRESSION PLANT; S-22 WASTE AND COVER MATE CE EQUIPMENT; A-4 LANDFILL GAS FLARE	RIAL; S- Reporting Period: from 02/01/2023 through 0	17/31/2023

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Total	BAAQMD	Records	Periodic / On	BAAQMD 8-40-	< 150 pounds VOC	Continuous	N/A
Aeration	Condition #		Event Basis	118	per project and		
Project	4044, Part 20I				toxic air		
Emissions					contaminant		
					emissions per year		
					< BAAQMD Table		
					2-1-316 limits		
Contamina	BAAQMD	Records	Periodic / On	BAAQMD	Limited to 2 on-site	Continuous	N/A
ted Soil	Condition #		Event Basis	Condition #	transfers per lot of		
Handling	4044, Part 20I			4044, Part 20d	contaminated soil		
Contamina	BAAQMD	Records	Periodic / On	BAAQMD	If organic content	Continuous	N/A
ted Soil	Condition #		Event Basis	Condition #	is:		
On-Site	4044, Part 20I			4044, Part 20e-f	< 500 ppmw,		
Storage					storage time < 90		
Time					days		
					> 500 ppmw,		
					storage time < 45		
					days		
Opacity	BAAQMD	Records of	Periodic / On	BAAQMD 6-1-	Ringelmann No. 1	Continuous	N/A
	Condition #	Dust	event basis	301	for ≤ 3 minutes/hr		
	4044, Part 19n-o	Suppressant					
		and Water					
		Application					

Site:	Sonom	na County Central Landfill	Facility ID#:	Facility ID#: A2254				
	COMPRE	S-1 LANDFILL WITH GAS COLLECTION SYSTEM; S-15 SSION PLANT; S-22 WASTE AND COVER MATERIAL; S-QUIPMENT; A-4 LANDFILL GAS FLARE	Reporting Period:	from	02/01/2023 through 07/31/2023			

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Opacity	BAAQMD 6-102	Visual Observation	Periodic / On event basis	SIP 6-301	< Ringelmann No. 1 for 3 minutes in any hour	Continuous	N/A
Opacity	BAAQMD 6-102	Visual Observation	Periodic / On event basis	BAAQMD 6-1- 301	Ringelmann No. 1 for < 3 minutes/hr	Continuous	N/A
Opacity	BAAQMD 6-102	Visual Observation	Periodic / On event basis	SIP 6-302	< 20% Opacity	Continuous	N/A
Opacity	BAAQMD 6-102	Visual Observation	Periodic / On event basis	BAAQMD 6-1-302	< 20% Opacity	Continuous	N/A
FP	None	N/A	None	BAAQMD 6-310	0.15 grains/dscf (applies to Flare A- 4)	Continuous	N/A
Opacity	BAAQMD Condition # 4044, Part 19n-o	Records of Dust Suppressant and Water Application	Periodic / On event basis	BAAQMD Condition # 4044, Part 2	Ringelmann No. 0.5	Continuous	N/A
TSP	BAAQMD 6-1- 501, 502, and 504	Source Test (once every 5 years with initial test results due by 7/1/2024)	Periodic / On event basis	SIP 6-310	< 0.15 grains/dscf (applies to Flare A- 4)	Continuous	N/A

Site:	Sonom	na County Central Landfill	Facility ID#:	A225	54
Permitted L	Init:	S-1 LANDFILL WITH GAS COLLECTION SYSTEM; S-15	Reporting Period:	from	02/01/2023 through 07/31/2023
LANDFILL GAS (COMPRE	SSION PLANT; S-22 WASTE AND COVER MATERIAL; S-			
23 MOBILE SUF	FACE E	QUIPMENT; A-4 LANDFILL GAS FLARE			

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
TSP	BAAQMD 6-1- 501, 502, and 504	Source Test (once every 5 years with initial test results due by 7/1/2024)	Periodic / On event basis	BAAQMD 6-1- 310.2	< 0.0697 grains/dscf (Applies to Flare A-4)	Continuous	N/A
Visible Emissions	BAAQMD 6-102	Visual Observation	Periodic / On event basis	BAAQMD 6-1- 307.1	No visible emissions due to fugitive dust from active landfill or stockpile operations	Continuous	N/A
Opacity	BAAQMD 6-102	Visual Observation	Periodic / On event basis	BAAQMD 6-1- 307.2	During Cleanup: < 20% opacity for 3 minutes in any hour or < Ringelmann No. 1 for 3 minutes in any hour	Continuous	N/A
Opacity	BAAQMD Condition # 4044, Part 19n-o	Records of Dust Suppressant and Water Application	Periodic / On event basis	BAAQMD Condition # 4044, Part 2	< Ringelmann No. 0.5	Continuous	N/A

Site:	Sonom	na County Central Landfill	Facility ID#:	A225	54
	COMPRE	S-1 LANDFILL WITH GAS COLLECTION SYSTEM; S-15 SSION PLANT; S-22 WASTE AND COVER MATERIAL; S-QUIPMENT; A-4 LANDFILL GAS FLARE	Reporting Period:	from	02/01/2023 through 07/31/2023

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Particulate	BAAQMD 6-6-	Visual	Periodic / Daily	BAAQMD 6-6-	Trackout onto	Continuous	N/A
Trackout	501.1-4	Observation		301	Paved Public		
		and			Roads:		
		Measure-			< 25 linear feet		
		ment of			(clean within 4		
		Trackout at			hours)		
		Facility Exits			And < 1 quart of		
		and Records			trackout At end of		
					workday		
Opacity	Visual	Visual	Periodic / On	BAAQMD 6-6-	During Trackout	Continuous	N/A
		Observation	event basis	302	Cleanup:		
		During			< 20% Opacity or		
		Cleaning			< Ringelmann No.		
		Events and			1 for 3 minutes in		
		Records			any hour		
Amount of	BAAQMD	Records	Periodic / Daily	BAAQMD	< 2500 tons/day	Continuous	N/A
Waste	Condition #			Condition #	(except for		
Accepted	4044, Part 19a-c			4044, Part 1	temporary		
					situations approved		
					by the LEA)		
					and		
					< 897,500		
					tons/year		

Site:	Sonor	na County Central Landfill	Facility ID#:	A225	54
Permitted	d Unit:	S-1 LANDFILL WITH GAS COLLECTION SYSTEM; S-15	Reporting Period:	from	02/01/2023 through 07/31/2023
LANDFILL GA	S COMPRE	SSION PLANT; S-22 WASTE AND COVER MATERIAL; S-			
23 MOBILE S	SURFACE E	QUIPMENT; A-4 LANDFILL GAS FLARE			

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Total Amount of Waste and Cover Materials	BAAQMD Condition # 4044, Part 19c	Records	Periodic / Monthly	BAAQMD Condition # 4044, Part 1	< 32.65 E6 yd³ and < 19.59 E6 tons	Continuous	N/A
SO ₂	None	N/A	None	BAAQMD 9-1- 301	Property Line Ground Level Limits: < 0.5 ppm for 3 minutes and < 0.25 ppm for 60 min. and <0.05 ppm for 24 hours	Continuous	N/A
SO ₂	BAAQMD Condition # 4044, Parts 18 and 19m	Sulfur analysis of landfill gas and Records	Periodic / Annual	BAAQMD Regulation 9-1- 302	< 300 ppm (dry basis)	Continuous	N/A

Site:	Sonor	na County Central Landfill	Facility ID#:	A225	54
Permitted	d Unit:	S-1 LANDFILL WITH GAS COLLECTION SYSTEM; S-15	Reporting Period:	from	02/01/2023 through 07/31/2023
LANDFILL GA	S COMPRE	SSION PLANT; S-22 WASTE AND COVER MATERIAL; S-			
23 MOBILE S	SURFACE E	QUIPMENT; A-4 LANDFILL GAS FLARE			

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
H ₂ S	None	N/A	None	BAAQMD 9-2- 301	Property Line Ground Level Limits: < 0.06 ppm, averaged over 3 minutes and < 0.03 ppm, averaged over 60 minutes	Continuous	N/A
Total Sulfur Content in Landfill Gas	BAAQMD Condition # 4044, Parts 18 and 19m	Sulfur analysis of landfill gas	Periodic / Annual	BAAQMD Condition # 4044, Part 7	< 1300 ppmv	Continuous	N/A
Toxic Air Contamina nts in Collected Landfill Gas	BAAQMD Condition # 4044, Part 18	Annual Source Test	Periodic / Annual	BAAQMD Condition # 4044, Part 6	Benzene < 2.5 ppmv Trichloroethylene < 3.0 ppmv Perchloroethylene < 3.0 ppmv Methylene Chloride<20.0ppmv Vinyl Chloride < 2.5 ppmv	Continuous	N/A

Site: S	noma County Central Landfill	Facility ID#: A2254	
	it: S-1 Landfill with Gas Collection System MPRESSION PLANT; S-22 WASTE AND COVER MATE CE EQUIPMENT; A-4 LANDFILL GAS FLARE	RIAL; S- Reporting Period: from 02/01/2023 through 0	17/31/2023

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Periods of	BAAQMD 1-	Operating	Periodic / Daily	BAAQMD 1-	15 consecutive	Continuous	N/A
Inoperation	523.4	Records for		523.2	days/incident and		
for		All			30 calendar		
Parametric		Parametric			days/12 month		
Monitors		Monitors			period		
Continuous	40 CFR 60.7(b)	Operating	Periodic / Daily	40 CFR 60.13(e)	Requires	Continuous	N/A
Monitors		Records for			Continuous		
		All			Operation except		
		Continuous			for breakdowns,		
		Monitors			repairs, calibration,		
					and required span		
					adjustments		
Heat Input	BAAQMD	Monthly and	Periodic /	BAAQMD	< 2,190 MMBtu per	Continuous	N/A
	Condition #4044,	Annual	Monthly /	Condition #4044,	day and < 547,680		
	Part 13	Records	Annual	Part 13	MM BTU per year		

Site: Sonoma County Central Landfill				acility ID#:	A225	54
Permitte	d Unit:	S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13	, S- R (Reporting Period:	from	02/01/2023 through 07/31/2023
14 LEAN BI	JRN INTERNAL	COMBUSTION ENGINES AND GENERATOR SETS				-

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Opacity	BAAQMD 6-102	Visual Observation	P/E	SIP 6-301	< Ringelmann No. 1 for 3 minutes in any hour	Continuous	N/A
Opacity	BAAQMD 6-102	Visual Observation	P/E	BAAQMD 6-1-301	< Ringelmann No. 1 for 3 minutes in any hour	Continuous	N/A
Opacity	BAAQMD 6-102	Visual Observation	P/E	SIP 6-302	< 20% Opacity	Continuous	N/A
Opacity	BAAQMD 6-102	Visual Observation	P/E	BAAQMD 6-1-302	< 20% Opacity	Continuous	N/A
TSP	BAAQMD 6-1-501, 502, and 504	N/A	None	BAAQMD 6-310	0.15 grains/dscf	Continuous	N/A
TSP	BAAQMD 6-1-501, 502, and 504	N/A	None	BAAQMD 6-310.1	0.15 grains/dscf	Continuous	N/A
TOC (Total Organic Compounds Plus Methane)	BAAQMD 8-34-501.6 and 8- 34-503	Quarterly Inspection and Records	Periodic / Quarterly	BAAQMD 8-34- 301.2	1000 ppmv as methane (component leak limit)	Intermittent	On June 28, 2023, the BAAQMD issued NOVs A61574 and A61573 to Sonoma Central for alleged component leaks detected at multiple wells during a regulatory inspection conducted on June 22 and 26, 2023. A combined 10 and 30-

Site:	Sonoma	County Central Landfill	Facility ID#:	A225	4
Permitted	Unit:	S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, S-	Reporting Period:	from	02/01/2023 through 07/31/2023
14 I FAN BURN	INTERNAL	COMBUSTION ENGINES AND GENERATOR SETS	_		

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
							day Title V Deviation Report and NOV Response letter was submitted to the BAAQMD on July 7, 2023.
Non- Methane Organic Com-pounds (NMOC)	BAAQMD 8-34-412 and 8-34- 501.4 and BAAQMD Condition #19933, Part 8	Initial and Annual Source Tests and Records	Periodic / Annual	BAAQMD 8-34- 301.4	98% removal by weight OR < 120 ppmv dry @ 3% O2, expressed as methane	Continuous	Please note, there was no internal combustion (IC) engine source testing during the reporting period. Following correspondence with Mr. Marco Hernandez with the Source Test Division
NMOC	BAAQMD Condition #24894, Part 8	Annual Source Test	Periodic / Annual	BAAQMD Condition # 19933, Part 6	< 120 ppmv dry @ 3% O2, expressed as methane (S-13, S-14: when fired by biogas fuel)		of the BAAQMD on March 21, 2022, he recommended to not perform source testing of the engines until upgrades to all the engines are made.
POC	BAAQMD Condition #19933, Part 8	Annual Source Test	Periodic / Annual	BAAQMD Condition # 19933, Part 7	98% removal by weight OR < 120 ppmv dry @ 3% O2, expressed as methane		Upgrades for the facility as required by the Source Test Division of the BAAQMD were initiated on March 28, 2022, and expected to be completed by December 31, 2023. Source testing for the engines will commence once upgrades are completed.
SO ₂	None	N/A	None	BAAQMD 9-1-301	Property Line Ground Level Limits: < 0.5 ppm for 3	Continuous	N/A

Site:	Sonoma County Central Landfill	Facility ID#:	A225	54
Permitt	ed Unit: S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, S-	Reporting Period:	from	02/01/2023 through 07/31/2023
14 LEAN E	URN INTERNAL COMBUSTION ENGINES AND GENERATOR SETS			-

Type of Limit or Criteria	Monitoring Requirement Citation	Requirement Type Frequency		Compliance	Corrective Actions Taken		
					minutes, < 0.25 ppm for 60 minutes & < 0.05 ppm for 24 hours		
SO ₂	BAAQMD Condition # 4044, Parts 15 and 17m	Sulfur Analysis of landfill gas	Periodic / Annual	BAAQMD 9-1-302	300 ppm (dry)	Continuous	N/A
H ₂ S	None	N/A	None	BAAQMD 9-2-301	Property Line ground level limits < 0.06 ppm Averaged over 3 minutes and < 0.03 ppm Averaged over 60 minutes	Continuous	N/A
Total Sulfur Content in Landfill Gas	BAAQMD Condition # 4044, Parts 15 and 17m	Sulfur Analysis of landfill gas	Periodic / Annual	BAAQMD Condition # 4044, Part 7	< 300 ppmv	Continuous	N/A
NOx	None	N/A	None	BAAQMD 9-8-301.2	Fossil Fuel Gas, Lean- Burn 65 ppmv dry @ 15% O2	Continuous	N/A
NO _x	BAAQMD Condition #19933, Part 8	Annual Source Test	Periodic / Annual	BAAQMD 9-8- 302.1	Waste Fuel Gas, Lean- Burn 70 ppmv dry @ 15% O2	Continuous	Please note, there was no internal combustion (IC) engine source testing during the reporting
NO _x	BAAQMD Condition #19933, Part 8	Annual Source Test	Periodic / Annual	BAAQMD Condition # 19933, Part 5	0.80 grams per brake horsepower hour (g/bhp-hr)		period. Following correspondence with Mr. Marco Hernandez with the Source Test Division

SONOMA COUNTY CENTRAL LANDFILL

TITLE V SEMI-ANNUAL MONITORING REPORT

Site: Sonoma County Central Landfill Facility ID#: A2254

Permitted Unit: S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, S-14 LEAN BURN INTERNAL COMBUSTION ENGINES AND GENERATOR SETS

Reporting Period: from 02/01/2023 through 07/31/2023

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
NOx	BAAQMD Condition #24894, Part 8	Annual Source Test	Periodic / Annual	BAAQMD Condition # 24894, Part 4	0.80 grams per brake horsepower hour (g/bhp-hr) (S-13, S-14: when fired by biogas fuel)		of the BAAQMD on March 21, 2022, he recommended to not perform source testing of the engines until upgrades to all the engines are made. Upgrades for the facility as required by the Source Test Division of the BAAQMD were initiated on March 28, 2022, and expected to be completed by December 31, 2023. Source testing for the engines will commence once upgrades are completed.
СО	None	N/A	None	BAAQMD 9-8-301.3	Fossil Fuel Gas: 2000 ppmv dry @ 15% O ₂	Continuous	N/A
СО	BAAQMD Condition #19933, Part 8	Annual Source Test	Periodic / Annual	BAAQMD 9-8- 302.3	Waste Fuel Gas: 2000 ppmv dry @ 15% O ₂	Continuous	Please note, there was no internal combustion (IC) engine source testing during the reporting
СО	BAAQMD Condition #19933, Part 8	Annual Source Test	Periodic / Annual	BAAQMD Condition #19933, Part 6	2.1 g/bhp-hr		period. Following correspondence with Mr. Marco Hernandez with the Source Test Division
CO	BAAQMD Condition #24894, Part 8	Annual Source Test	Periodic / Annual	BAAQMD Condition # 24894, Part 5	2.1 grams per brake horsepower hour (g/bhp-hr) (S-13, S-14: when fired by biogas fuel)		of the BAAQMD on March 21, 2022, he recommended to not perform source testing of the engines until upgrades to all the engines are made.

Site:	Sonom	a County	Central Landfill		Facility ID#:		A225	4
Permitt	ed Unit:	S-4, S-5, S	S-6, S-7, S-9, S-10, S-11,	S-12, S-13, S-	Reporting Pe	riod:	from	02/01/2023 through 07/31/2023
14 LEAN E	BURN INTERNAL	COMBUSTIC	ON ENGINES AND GENERAT	OR SETS				-

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
							Upgrades for the facility as required by the Source Test Division of the BAAQMD were initiated on March 28, 2022, and expected to be completed by December 31, 2023. Source testing for the engines will commence once upgrades are completed.
Heat Input	BAAQMD Condition #19933, Part 9a-e	Records	Periodic / Daily	BAAQMD Condition # 19933, Part 10	Limits for each engine: < 252.6 MM BTU/day And < 92,199 MM BTU/year	Continuous	N/A
Emission Control System Shutdown Time	BAAQMD 8-34-501.2 and BAAQMD Condition #19933, Part 9a	Records	Periodic / Daily	BAAQMD 8-34-113.2	240 hours/year	Continuous	N/A
Engine Exhaust Oxygen Content	BAAQMD Condition #19933, Part 11 and BAAQMD 8-34-509	Monthly Exhaust Oxygen Monitoring and Records	Periodic / Monthly	BAAQMD 8-34-301.4	98% removal by weight OR < 120 ppmv dry @ 3% O2, expressed as methane (as demonstrated by proper exhaust oxygen content range)	Continuous	N/A

SONOMA COUNTY CENTRAL LANDFILL

TITLE V SEMI-ANNUAL MONITORING REPORT

Site: Sonoma County Central Landfill Facility ID#: A2254

Permitted Unit: S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, S-14 LEAN BURN INTERNAL COMBUSTION ENGINES AND GENERATOR SETS

Reporting Period: from 02/01/2023 through 07/31/2023

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
Natural Gas Usage	BAAQMD Condition #19933, Part 9a-c	Records	Periodic / Daily	BAAQMD Condition # 19933, Part 3	Prohibited when flare is operating and unless it is needed as supplemental fuel	Continuous	N/A
Gas Flow	BAAQMD Condition #19933, Part 4	Gas Flow Meter (per engine)	Continuous	BAAQMD 8-34-301 and 301.1; BAAQMD Condition # 19933, Parts 1 & 2	Vent all collected gases to a properly operating control system and operate control system continuously.	Continuous	N/A
Gas Flow	BAAQMD 8-34-501.10 and 508	Gas Flow Meter and Recorder (every 15 minutes);	Continuous	BAAQMD 8-34-301 and 301.1; BAAQMD Condition # 19933, Parts 1 & 2	Vent all collected gases to a properly operating control system and operate control system continuously.	Continuous	N/A
Periods of Inoperation for Parametric Monitors	BAAQMD 1-523.4	Records of occurrence and duration	Periodic / Daily	BAAQMD 1-523.2	15 consecutive days/incident and 30 calendar days/12 month period	Continuous	N/A
Maintenance	63.6655(e)	Records of Maintenance	P/E	40 CFR Part 63. Subpart	Every 1440 Hours of Operation or Annually:	Continuous	N/A

Site: Sonoma County Central Landfill				Facility ID#:	A225	54
Perm	itted Unit:	S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-1	3, S-	Reporting Period:	from	02/01/2023 through 07/31/2023
14 LEA	N BURN INTERNAL	COMBUSTION ENGINES AND GENERATOR SETS		_		-

Type of Limit or Criteria	Monitoring Requirement Citation	Monitoring Type	Monitoring Frequency	Citation of Limit	Limit	Compliance	Corrective Actions Taken
				ZZZZ,	Change Oil and Filter,		
				Table 2d,	Inspect Spark Plugs,		
				13	Inspect Hoses and		
					Belts		