

# Third Quarter 2023 Community Air Monitoring Report, Chiquita Canyon Landfill

Chiquita Canyon Landfill  
29201 Henry Mayo Drive  
Castaic, California 91384

**SCS ENGINEERS**

01204123.19 Task 7 | November 15, 2023

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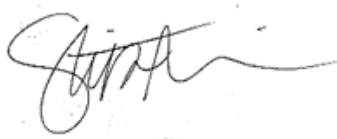
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This Third Quarter 2023 Community Air Monitoring Report for the Chiquita Canyon Landfill, located at 29201 Henry Mayo Drive, Castaic, California, was prepared and reviewed by the following:



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## 1.0 CHIQUITA CANYON AIR MONITORING SUMMARY

This Third Quarter 2023 Community Air Monitoring Report (Report) has been prepared by SCS Engineers (SCS) in collaboration with Chiquita Canyon Landfill (CCL or Site), the Los Angeles County Department of Public Health (DPH), and the Los Angeles County Department of Public Works (PW), in regard to implementation of the Community Air Monitoring Program (CAMP), dated 2019. The CAMP presents an overview of quarterly air monitoring reporting compiled from continuous air monitoring stations in the community surrounding the Site, and monthly discrete sampling at community air monitoring station locations during the reporting period.

The CAMP was prepared by SCS, in consultation with CCL, DPH and PW, in accordance with the 2019 Community Air Monitoring Plan (CAM Plan), which was prepared in order to identify locations, parameters, and procedures for implementation of continuous air monitoring in the community surrounding the Site. The CAMP was designed to incorporate the requirements of Condition 68 of CCL's Conditional Use Permit (CUP) issued by the County of Los Angeles (County).

As of October 2022, the CAMP is comprised of a network of twelve air monitoring stations (MS or Stations) with seven stations located throughout the community surrounding the Site (MS-06 through MS-12) and five stations located on-site (MS-01 through MS-05), around the Site perimeter (the Site perimeter air monitoring stations serve as a reference for any off-site exceedances that may be detected). The air monitoring stations continuously monitor particulate matter with an aerodynamic diameter of ten (10) micrometers or less (PM<sub>10</sub>), particulate matter with an aerodynamic diameter of 2.5 micrometers or less (PM<sub>2.5</sub>), and hydrogen sulfide (H<sub>2</sub>S); as well as wind direction and wind speed. The CAMP was fully implemented in September 2022.

The purpose of this report is to comply with the quarterly reporting requirements outlined in the CAM Plan and Condition 68 of the CUP. This report includes the following components:

- DPH data evaluation of monthly reports and/or quarterly analysis and evaluation of potential health and safety impacts on nearby residents, schools, and centers of employment
- SCS determination of any exceedances of the applicable reporting thresholds
- SCS evaluation and recommendations for Program implementation

This section outlines the monitoring thresholds and provides additional detail for the analyses conducted during the reporting period.

### 1.1 MONITORING LOCATIONS

A map showing the location of the monitoring stations is included as **Figure 1**. As shown on **Figure 1**, MS-01 through MS-05 are located around the perimeter of the Site. MS-06 through MS-12 are located in the community surrounding the Site, and are the subject of this report.

### 1.2 CONTINUOUS MONITORING

**Table 1** summarizes the air quality exposure levels or standards that are used as a basis for analyzing the continuous air monitoring data at the community stations, MS-06 through MS-12.

The recommended *reporting analysis thresholds* for each of the continuously monitored air pollutants are highlighted in **bold text** in **Table 1**. The air monitoring stations that are deployed around the Site and in the community have detection limits that are well below the recommended

notification levels (i.e., they can detect ambient concentration levels that are much lower than the threshold levels recommended below). Short-term fluctuations in the ambient concentration of the monitored air pollutants around the Site and in the community are expected and will be reflected in the data.

Table 1. Summary of Air Quality Standards for Selected Air Pollutants

Air Quality Standard		PM <sub>2.5</sub>	PM <sub>10</sub>	H <sub>2</sub> S
CAAQS	1-Hour Average	--	--	<b>0.03 ppm</b>
	24-Hour Average	--	50 µg/m <sup>3</sup>	--
FEIR	24-Hour Average	<b>2.5 µg/m<sup>3</sup></b>	<b>2.5 µg/m<sup>3</sup></b>	--
SCAQMD	2-Hour Average	<b>25 µg/m<sup>3</sup></b>		--

**Bold Text** – Reporting Threshold

It should be noted that the reporting analysis thresholds are limited to the off-site monitoring stations. This means that if the thresholds are triggered on any off-site monitoring station (MS-06 through MS-12), additional analysis will be required, including review of data collected at the on-site monitoring stations (MS-01 through MS-05) during the exceedance event.

The continuous monitoring data for the entire quarter is formatted into the time increments that match the reporting analysis thresholds listed in the table above, as is presented in Appendix A. Within Appendix A, please refer to **Appendix A, Table A-1** for the H<sub>2</sub>S 1-hour exceedances, **Table A-2** for 24-hour PM<sub>2.5</sub> and PM<sub>10</sub> exceedances, and **Table A-3** for 2-hour PM<sub>2.5</sub> and PM<sub>10</sub> exceedances.

### 1.3 DISCRETE SAMPLING

On a monthly basis, a total of five air samples are collected at community monitoring stations. Three samples are collected in the community surrounding the Site, with two samples collected from either side of the landfill generally in line with the community monitor sampling locations for each month. The overall intent is to cover all monitoring stations within the surrounding community every quarter for the duration of the CAMP.

To achieve this goal, SCS has implemented the following monthly sampling rotation with three community monitoring locations grouped together with two landfill monitoring locations in line from either side of the landfill:

- Rotation 1:** Samples collected from northwest of the Landfill (MS-07, MS-08, and MS-12) with in line Landfill samples located at MS-04 and MS-03.
- Rotation 2:** Samples collected from northeast of the Landfill (MS-06, MS-09, and MS-10) with in line Landfill samples located at MS-01 and MS-02.
- Rotation 3:** Samples collected from northwest and southeast of the Landfill (MS-08, MS-11, and MS-12) with in line Landfill samples located at MS-04 and MS-05.

Samples are collected and analyzed for landfill gas (LFG) components listed in Table 1 of SCAQMD Rule 1150.1, the SCAQMD rule for monitoring emissions from landfills. Those chemicals are found in Table 2 below.

Table 2. SCAQMD Rule 1150.1 Toxic Air Contaminant List

SCAQMD Rule 1150.1 Table 1 Constituents			
Benzene	1,1-Dichloroethane	Tetrachloroethylene	Trichloromethane
Benzyl chloride	1,2-Dichloroethane	Tetrachloromethane	Vinyl Chloride
Chlorobenzene	1,1-Dichloroethene	Toluene	Xylene
1,2-Dibromoethane	Dichloromethane	1,1,1-Trichloroethane	
Dichlorobenzene	Hydrogen Sulfide	Trichloroethylene	

For discrete sampling, reporting analysis thresholds chosen by DPH are the California Office of Health Hazard Assessment (OEHHA) Reference Exposure Levels (RELs) for Acute Hazard Index Target Organ Systems (Table 6.1 from the February 2015 Air Toxics Hot Spots Program Guidance Manual). By definition, an acute REL is an exposure that is not likely to cause adverse health effects in a human population, including sensitive subgroups, exposed to that concentration (in units of micrograms per cubic meter or  $\mu\text{g}/\text{m}^3$ ) for the specified exposure duration on an intermittent basis.

## 2.0 QUARTERLY AIR MONITORING RESULTS

This section discusses the continuous monitoring and discrete sampling results for the reporting period.

### 2.1 CONTINUOUS MONITORING RESULTS

DPH has access to all continuous monitoring data recorded from the off-site monitors, which is reviewed routinely and on an as-needed basis if recorded values exceed the reporting thresholds in Table 1. If DPH observes reportable exceedances, DPH may request the on-site monitoring data (including wind direction and wind speed data), for the purposes of DPH's evaluations of reported exceedances. Upon request, SCS will provide DPH with the continuous monitoring data for all on-site monitors, for the time period of the exceedance plus one time increment prior to, and after, the exceedance start time. Any recommendations regarding the health and safety impact on nearby residents, schools and centers of employment or evaluation(s) of potential sources of air pollutants impacting ambient air quality made by DPH are included in this report.

During the reporting period, there were 61 exceedance events for  $\text{H}_2\text{S}$  over a 1-hour averaging period. There were 3 exceedance events for  $\text{PM}_{10}$  and 0 exceedances for  $\text{PM}_{2.5}$  over a 2-hour averaging period. There were 7 exceedance events for  $\text{PM}_{10}$  and 5 exceedances for  $\text{PM}_{2.5}$  over a 24-hour averaging period. These exceedances occurred at off-site stations where station(s) exceeded one or more reporting thresholds. Please note that one or more monitors can have an exceedance detection during a single exceedance event, based on the stations' proximity to other stations, wind direction, and wind speed. A summary of each exceedance that occurred at the off-site monitoring stations during the reporting period can be found in Appendix A.

SCS has provided DPH with corresponding on-site data for periods where the off-site monitoring stations recorded an exceedance of the thresholds listed in Table 1 above. The data was shared in

emails sent on August 15, September 15, and October 16, 2023. As of the date of this report, SCS have not received any comments from DPH regarding the on-site continuous monitoring data.

Please note, due to the size of the full dataset and in order to reduce the amount of physical pages of this quarterly report, a link to the 1-hour data for the continuous monitoring at the off-site locations can be found in **Appendix B**. Since the continuous monitoring data presented in this report includes only a summary of exceedance events, the complete 1-hour data set is included as a separate, linked attachment.

## **2.2 DISCRETE SAMPLING RESULTS**

During the Third Quarter 2023, monthly samples were taken in July, August, and September 2023. A full description of the detected constituents along with their concentrations was included in the monthly reports which were submitted to DPH, PW, and the Site on August 14, September 15, and October 13, 2023 respectively. During the reporting period, there were zero (0) community monitoring stations that had exceedances of discrete sampling reporting thresholds, per **Appendix C, Table C-1**.

As of the date of this report, SCS have not received any comments from DPH regarding the off-site discrete sampling data.

The results of the monthly discrete sampling events conducted in July, August, and September are found in **Appendix C. Appendix C, Table C-1** includes the discrete sampling reporting thresholds. Based on the reporting thresholds outlined in Table C-1, there were no exceedances recorded in the third quarter sampling events. The complete laboratory analytical reports are also included within **Appendix C**.

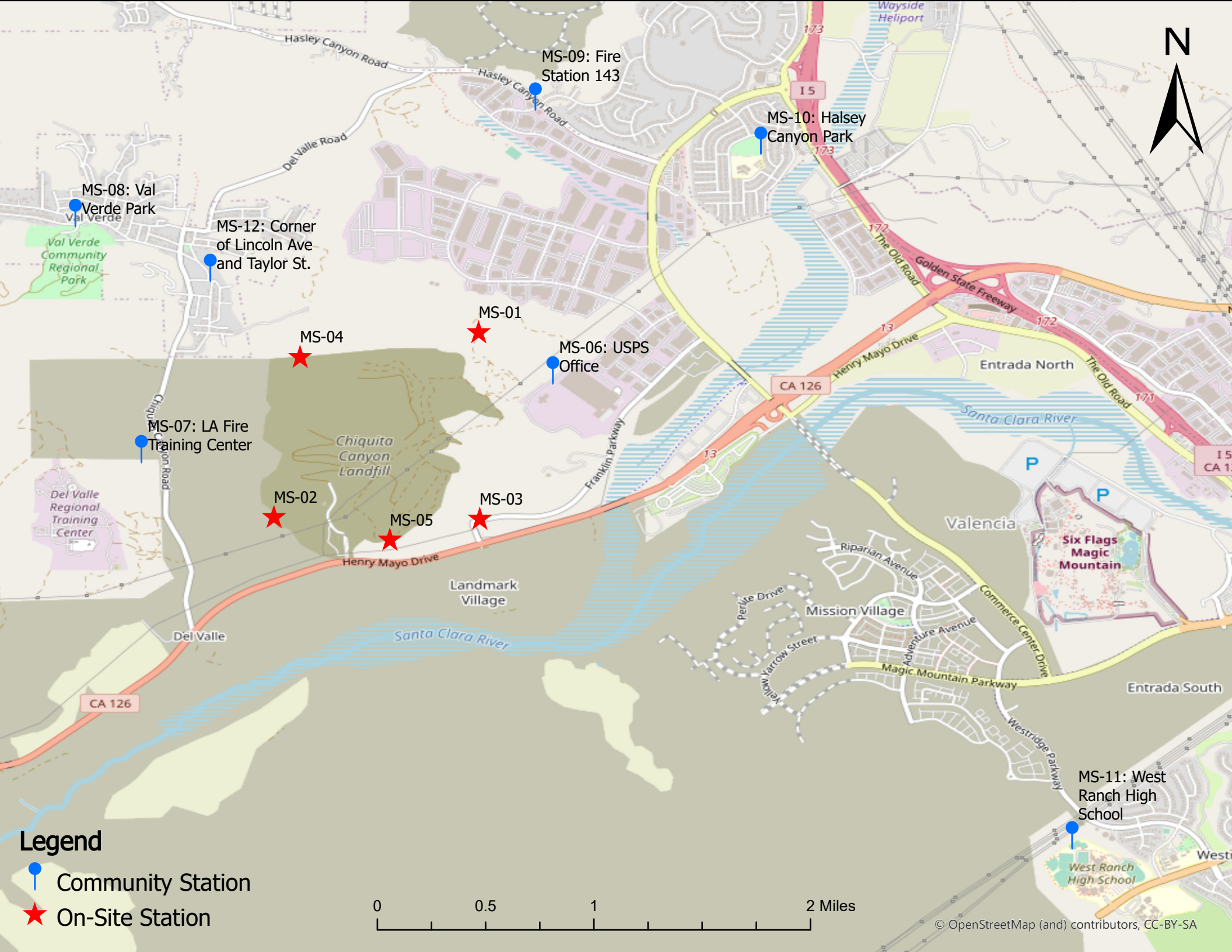
The laboratory results were analyzed in conjunction with the continuous air monitoring data collected during the sampling event. The 1-hour continuous monitoring data collected at each monitoring station that was used as part of the discrete sampling analysis is located in **Appendix B**. Please note that only the off-site discrete sampling events and the associated 1-hour monitoring data are included in this quarterly report.

## **3.0 SCS CAMP RECOMMENDATIONS**

This section describes any recommendations by SCS to the CAMP to improve the overall efficiency of the air monitoring program. During the Third Quarter, there were no new recommendations for the program. All quarterly recommendations/observations will be compiled and addressed in the annual Community Air Monitoring Report.

Figure 1  
Chiquita Canyon CAMP Map of Monitoring Stations






**Legend**

-  Community Station
-  On-Site Station





## Appendix A

### Third Quarter 2023 Community Air Monitoring Station Continuous Monitoring Data Exceedances




Table A-1  
1-Hour Average H<sub>2</sub>S Community Monitoring Station Data

**Table A-1**  
**1-Hour Average H2S Community Monitoring Station Data**

Monitoring Station	Event #	Time	H <sub>2</sub> S	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			ppm	mph	°	in.Hg	(°F)	%
MS-08	1	7/6/2023 13:00	0.033	4.37	259.6	29	81.9	39.5
MS-08	1	7/6/2023 14:00	0.039	4.31	227.9	28.99	82.9	39.1
MS-08	1	7/6/2023 15:00	0.04	4	243.8	28.97	82.9	39.3
MS-08	1	7/6/2023 16:00	0.049	4.21	254.9	28.97	81.4	43
MS-08	2	7/6/2023 19:00	0.049	3.31	240.2	28.97	71.5	56.3
MS-08	2	7/6/2023 20:00	0.045	2.24	237	28.97	67.7	62
MS-08	2	7/6/2023 21:00	0.045	1.59	237.7	28.98	64.5	68.4
MS-08	2	7/6/2023 22:00	0.041	1.36	237.8	28.99	61.2	73.7
MS-08	2	7/6/2023 23:00	0.034	1.51	235.9	28.99	57.4	81
MS-08	3	7/7/2023 7:00	0.03	1.39	199.9	29	57.3	83.6
MS-08	3	7/7/2023 8:00	0.039	1.96	147.8	29	61.7	76.3
MS-08	3	7/7/2023 9:00	0.042	2.65	47.5	28.98	67.6	64.6
MS-08	3	7/7/2023 10:00	0.039	4.37	235.3	28.98	70.7	57.8
MS-08	3	7/7/2023 11:00	0.044	4.28	230.5	28.98	73.1	55
MS-08	3	7/7/2023 12:00	0.03	4.04	231.8	28.96	76.8	47.2
MS-08	3	7/7/2023 13:00	0.036	4.1	282.5	28.94	79.2	45.6
MS-08	3	7/7/2023 14:00	0.039	4.5	265.1	28.93	80.3	45
MS-08	3	7/7/2023 15:00	0.04	4.2	250	28.92	80.6	45.4
MS-08	3	7/7/2023 16:00	0.039	4.13	240.6	28.9	80.1	46.1
MS-08	3	7/7/2023 17:00	0.039	3.75	255.9	28.9	78.5	48.4
MS-08	3	7/7/2023 18:00	0.037	3.26	258.9	28.9	75.3	52.7
MS-08	3	7/7/2023 19:00	0.035	3.39	240.5	28.9	72.3	56.8
MS-08	3	7/7/2023 20:00	0.034	1.38	233.3	28.92	68.9	62.2
MS-08	4	7/8/2023 9:00	0.031	2.54	110.8	28.97	69.7	61.6
MS-08	5	7/8/2023 13:00	0.032	4.4	233.5	28.92	82	43.6
MS-08	5	7/8/2023 14:00	0.035	4.75	234.9	28.92	82.7	43.8
MS-08	5	7/8/2023 15:00	0.033	4.89	229.3	28.92	81.9	44.7
MS-08	5	7/8/2023 16:00	0.036	4.14	242.5	28.92	81.3	46.3
MS-08	5	7/8/2023 17:00	0.034	3.62	248.9	28.92	80.2	48
MS-08	5	7/8/2023 18:00	0.034	2.86	265.7	28.92	77.3	51.8
MS-08	5	7/8/2023 19:00	0.032	2.82	248.5	28.92	74.3	55.7
MS-08	5	7/8/2023 20:00	0.03	1.82	243.9	28.93	70.4	61.9
MS-08	5	7/8/2023 21:00	0.031	1.05	209.5	28.94	67	67.6
MS-08	6	7/9/2023 9:00	0.032	2.17	108.4	29.03	70.7	63.3
MS-08	7	7/12/2023 7:00	0.05	1	243.3	29.13	64.5	52.2
MS-06	8	7/13/2023 0:00	0.034	1.83	249	29.26	65.6	45.8
MS-08	8	7/13/2023 0:00	0.041	2.22	249.6	29.11	62	45.1
MS-06	8	7/13/2023 1:00	0.031	2.09	260.7	29.25	63.2	48
MS-08	8	7/13/2023 1:00	0.03	2.05	245.8	29.1	61	46.2
MS-08	8	7/13/2023 2:00	0.046	2.23	251.9	29.1	59.7	49
MS-08	8	7/13/2023 3:00	0.043	1.99	249.3	29.09	59	50.2
MS-08	8	7/13/2023 4:00	0.041	1.99	253.7	29.09	57.9	51.8
MS-08	8	7/13/2023 5:00	0.034	2.18	258.8	29.1	57.6	51.7
MS-08	8	7/13/2023 6:00	0.075	1.54	251.6	29.1	58.4	54.6
MS-12	8	7/13/2023 6:00	0.03	2.83	348.9	29.18	60	47.7

**Table A-1  
1-Hour Average H2S Community Monitoring Station Data**

Monitoring Station	Event #	Time	H <sub>2</sub> S	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			ppm	mph	°	in.Hg	(°F)	%
MS-08	8	7/13/2023 7:00	0.125	1.04	255.5	29.1	63.4	50.8
MS-12	8	7/13/2023 7:00	0.059	1.41	42.2	29.19	65.9	42.8
MS-08	8	7/13/2023 8:00	0.032	1.12	79.4	29.1	73.7	32.6
MS-12	8	7/13/2023 8:00	0.045	1.34	54.9	29.18	77.1	30.6
MS-11	9	7/13/2023 12:00	0.041	3.98	231.9	28.83	93.2	22.3
MS-08	9	7/13/2023 13:00	0.032	4.51	256.3	29.03	94.8	19.5
MS-11	9	7/13/2023 13:00	0.031	4.5	254.9	28.81	94.9	21.6
MS-12	9	7/13/2023 13:00	0.036	5.07	181.4	29.11	96.3	19.1
MS-11	9	7/13/2023 14:00	0.035	5.91	220.8	28.8	94	22
MS-12	9	7/13/2023 14:00	0.03	4.43	215	29.1	96.7	18.5
MS-08	9	7/13/2023 15:00	0.051	4.91	245.9	29.02	93.2	21
MS-11	9	7/13/2023 15:00	0.031	5.26	251.4	28.79	93.9	21.9
MS-12	9	7/13/2023 15:00	0.055	4.1	249.9	29.09	96	19.9
MS-06	10	7/13/2023 20:00	0.045	3.57	239.9	29.16	78.9	34.2
MS-08	10	7/13/2023 20:00	0.096	2.35	252	29.02	76.8	33.7
MS-11	10	7/13/2023 20:00	0.067	2.55	221.5	28.8	75.3	39.5
MS-12	10	7/13/2023 20:00	0.067	1.18	2.1	29.1	77.5	32.7
MS-06	10	7/13/2023 21:00	0.061	3.25	296.4	29.18	71.8	46.8
MS-08	10	7/13/2023 21:00	0.099	1.88	238.1	29.04	71.2	39.5
MS-11	10	7/13/2023 21:00	0.07	2.35	209.2	28.81	73.1	41.9
MS-12	10	7/13/2023 21:00	0.123	1.29	98.3	29.12	71.7	44.9
MS-06	10	7/13/2023 22:00	0.057	2.66	279.7	29.2	68.8	51.6
MS-08	10	7/13/2023 22:00	0.104	2.02	243.7	29.05	66.1	45.4
MS-11	10	7/13/2023 22:00	0.07	2.39	209.5	28.82	72.2	43.1
MS-12	10	7/13/2023 22:00	0.116	1.16	352.5	29.13	66.6	49.3
MS-06	10	7/13/2023 23:00	0.051	2.27	264.3	29.2	65.8	52.6
MS-08	10	7/13/2023 23:00	0.099	2.14	253.1	29.05	62.7	50.5
MS-11	10	7/13/2023 23:00	0.076	1.15	197.7	28.83	68.8	46.6
MS-12	10	7/13/2023 23:00	0.088	2.08	341.2	29.14	63.6	50.4
MS-06	10	7/14/2023 0:00	0.048	2.42	256.1	29.19	64.4	54.4
MS-08	10	7/14/2023 0:00	0.12	2.23	256	29.04	60.8	54.8
MS-11	10	7/14/2023 0:00	0.07	1.81	278.3	28.82	66.7	51.4
MS-12	10	7/14/2023 0:00	0.067	2.84	352.6	29.13	63.1	49.3
MS-06	10	7/14/2023 1:00	0.039	2.24	254.4	29.18	62.3	53.7
MS-08	10	7/14/2023 1:00	0.111	2.15	253.5	29.04	59	57.8
MS-11	10	7/14/2023 1:00	0.089	0.93	192.8	28.81	64.5	54.8
MS-12	10	7/14/2023 1:00	0.064	3.02	350	29.12	61.4	51.5
MS-06	10	7/14/2023 2:00	0.034	1.97	257.9	29.18	60.6	55.3
MS-08	10	7/14/2023 2:00	0.11	2	249	29.03	57.9	60.5
MS-11	10	7/14/2023 2:00	0.065	0.94	207.4	28.8	63	54.8
MS-12	10	7/14/2023 2:00	0.06	2.2	328.7	29.11	58.7	55.9
MS-08	10	7/14/2023 3:00	0.097	1.86	251.4	29.03	56.8	62.3
MS-12	10	7/14/2023 3:00	0.061	2.43	339.4	29.11	58	57.9
MS-08	10	7/14/2023 4:00	0.083	2.09	255.4	29.03	55.6	63.5
MS-12	10	7/14/2023 4:00	0.057	3.22	350.5	29.11	57	59.8

**Table A-1  
1-Hour Average H2S Community Monitoring Station Data**

Monitoring Station	Event #	Time	H <sub>2</sub> S	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			ppm	mph	°	in.Hg	(°F)	%
MS-08	10	7/14/2023 5:00	0.072	1.9	254.4	29.02	54.2	65.9
MS-12	10	7/14/2023 5:00	0.053	2.96	350	29.11	55.5	62.2
MS-08	10	7/14/2023 6:00	0.081	1.94	258	29.02	55.3	65.9
MS-12	10	7/14/2023 6:00	0.053	3.3	351.3	29.11	56.4	61.8
MS-08	10	7/14/2023 7:00	0.115	1.41	262.5	29.02	62.2	57.5
MS-12	10	7/14/2023 7:00	0.065	2.12	33.4	29.11	64.5	50.6
MS-08	10	7/14/2023 8:00	0.055	1.01	189.3	29.02	72.8	38
MS-12	10	7/14/2023 8:00	0.044	1.61	6.4	29.1	75.7	35.2
MS-08	11	7/14/2023 11:00	0.032	4.51	229.4	29	92.2	22.7
MS-11	11	7/14/2023 11:00	0.038	4.05	252.7	28.78	91.9	26.1
MS-08	11	7/14/2023 12:00	0.079	4.38	241.1	28.99	93.5	23.7
MS-11	11	7/14/2023 12:00	0.044	3.86	260.6	28.77	93.1	26.1
MS-12	11	7/14/2023 12:00	0.058	4.73	213.8	29.07	95.8	22.5
MS-08	11	7/14/2023 13:00	0.079	4.39	257	28.98	94.8	23.1
MS-11	11	7/14/2023 13:00	0.044	4.37	300.7	28.76	95.4	25
MS-12	11	7/14/2023 13:00	0.063	4.62	202.5	29.06	96.9	22.4
MS-08	11	7/14/2023 14:00	0.092	4.31	252.7	28.97	95.6	23.3
MS-11	11	7/14/2023 14:00	0.038	5.33	332.9	28.75	96.3	24.4
MS-12	11	7/14/2023 14:00	0.077	4.19	205.4	29.05	97.8	22.7
MS-08	11	7/14/2023 15:00	0.093	4.45	260.4	28.96	96	23.2
MS-11	11	7/14/2023 15:00	0.051	4.23	286.6	28.74	96.1	25.1
MS-12	11	7/14/2023 15:00	0.069	3.79	256.2	29.03	98.1	22.2
MS-08	11	7/14/2023 16:00	0.117	4.17	252.7	28.95	95.6	24.7
MS-11	11	7/14/2023 16:00	0.061	5.26	255.7	28.73	94.3	26.8
MS-12	11	7/14/2023 16:00	0.083	3.62	268.3	29.02	97.4	23.9
MS-08	11	7/14/2023 17:00	0.108	3.91	244.8	28.94	94.1	25.2
MS-11	11	7/14/2023 17:00	0.055	4.63	248.2	28.72	92.1	27.9
MS-12	11	7/14/2023 17:00	0.073	3.36	249.9	29.02	94.2	25.3
MS-08	11	7/14/2023 18:00	0.101	2.8	262.1	28.94	91.3	26.8
MS-11	11	7/14/2023 18:00	0.035	4.53	237.7	28.72	87.6	30
MS-12	11	7/14/2023 18:00	0.07	2.16	185	29.02	91.8	26.6
MS-08	11	7/14/2023 19:00	0.078	2.83	249.8	28.95	86.9	28.9
MS-11	11	7/14/2023 19:00	0.044	4.72	226.4	28.73	83.1	34.6
MS-12	11	7/14/2023 19:00	0.07	0.96	280.2	29.02	87.2	29.9
MS-08	11	7/14/2023 20:00	0.087	1.81	246	28.95	79.3	35.4
MS-11	11	7/14/2023 20:00	0.039	5.26	227.5	28.73	78.8	38.7
MS-12	11	7/14/2023 20:00	0.062	1.35	73.8	29.03	79.7	35.9
MS-08	11	7/14/2023 21:00	0.08	1.99	251.6	28.97	72.3	43
MS-11	11	7/14/2023 21:00	0.046	0.98	215	28.75	76.4	43.1
MS-12	11	7/14/2023 21:00	0.079	1.45	43.1	29.05	73.9	44.6
MS-08	11	7/14/2023 22:00	0.084	2.09	249.7	28.98	68.7	48.1
MS-11	11	7/14/2023 22:00	0.05	1.05	186.4	28.75	73.4	47.4
MS-12	11	7/14/2023 22:00	0.061	1.54	339.3	29.06	70	47.2
MS-08	11	7/14/2023 23:00	0.086	2.19	248.7	28.98	66.6	52.3
MS-11	11	7/14/2023 23:00	0.054	1.06	201.8	28.75	71.7	50.6

**Table A-1**  
**1-Hour Average H2S Community Monitoring Station Data**

Monitoring Station	Event #	Time	H <sub>2</sub> S	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			ppm	mph	°	in.Hg	(°F)	%
MS-12	11	7/14/2023 23:00	0.055	2.09	339.9	29.06	67.9	50
MS-08	11	7/15/2023 0:00	0.098	2.02	250	28.98	64.4	57.3
MS-11	11	7/15/2023 0:00	0.043	0.85	203.2	28.75	70.1	52.5
MS-12	11	7/15/2023 0:00	0.053	2.3	337.1	29.06	66.1	52.9
MS-08	11	7/15/2023 1:00	0.089	1.94	249.6	28.98	62.9	60.1
MS-11	11	7/15/2023 1:00	0.055	0.95	192.2	28.76	68	57.1
MS-12	11	7/15/2023 1:00	0.05	2.12	330.9	29.06	64.1	56.4
MS-08	11	7/15/2023 2:00	0.081	2.1	253.1	28.98	62	61.8
MS-11	11	7/15/2023 2:00	0.045	1.22	196.1	28.76	67.2	58.1
MS-12	11	7/15/2023 2:00	0.049	2.26	331.7	29.06	63.1	58.6
MS-08	11	7/15/2023 3:00	0.087	1.66	250	28.98	60.4	66
MS-12	11	7/15/2023 3:00	0.049	2.98	347.8	29.06	62.3	61
MS-08	11	7/15/2023 4:00	0.082	2.06	256.4	28.97	59.3	68.3
MS-12	11	7/15/2023 4:00	0.049	2.88	343.5	29.05	61	63.7
MS-08	11	7/15/2023 5:00	0.077	1.91	254.7	28.98	59	69.3
MS-12	11	7/15/2023 5:00	0.047	3.26	348.6	29.06	60.4	65.5
MS-08	11	7/15/2023 6:00	0.081	2.13	259	28.99	60.2	68.8
MS-12	11	7/15/2023 6:00	0.048	2.68	345.1	29.07	60.8	66
MS-08	11	7/15/2023 7:00	0.122	0.83	239.6	29	65.6	65.3
MS-12	11	7/15/2023 7:00	0.062	1	35.1	29.08	66.5	60
MS-08	11	7/15/2023 8:00	0.097	1.1	72.9	29	75.6	46.4
MS-12	11	7/15/2023 8:00	0.058	2	133.4	29.08	77.3	43.8
MS-08	11	7/15/2023 9:00	0.07	1.77	68	28.99	85.2	34.1
MS-12	11	7/15/2023 9:00	0.032	2.98	168.7	29.07	84.7	33.4
MS-08	11	7/15/2023 10:00	0.079	2.05	136.9	28.99	92.4	29.4
MS-12	11	7/15/2023 10:00	0.04	4.41	165.8	29.06	90.5	30.1
MS-08	11	7/15/2023 11:00	0.053	4.24	231	28.98	95.4	25.8
MS-12	11	7/15/2023 11:00	0.036	4.05	170.8	29.05	96.7	25.6
MS-08	11	7/15/2023 12:00	0.071	3.55	238.5	28.97	98.8	25.2
MS-11	11	7/15/2023 12:00	0.031	3.85	244.1	28.76	96.6	29.9
MS-12	11	7/15/2023 12:00	0.039	3.13	261.7	29.05	101.3	23.7
MS-08	11	7/15/2023 13:00	0.092	3.43	241.6	28.96	101.4	25.7
MS-12	11	7/15/2023 13:00	0.053	4.04	261.3	29.03	102.8	24.9
MS-08	11	7/15/2023 14:00	0.099	4.68	222.5	28.96	100.7	27.2
MS-12	11	7/15/2023 14:00	0.056	3.86	276.4	29.03	103.4	26.1
MS-08	11	7/15/2023 15:00	0.102	3.77	245.9	28.95	101.2	28.2
MS-12	11	7/15/2023 15:00	0.055	3.84	287.5	29.02	102.7	27
MS-08	11	7/15/2023 16:00	0.093	4.59	228.4	28.94	98.7	30.1
MS-12	11	7/15/2023 16:00	0.05	3.34	281.1	29.01	100.6	29.2
MS-08	11	7/15/2023 17:00	0.09	3.61	250.9	28.93	97.3	32
MS-12	11	7/15/2023 17:00	0.044	3.28	225.5	29	97.3	32.3
MS-08	11	7/15/2023 18:00	0.084	3.31	267.3	28.93	93	35.6
MS-12	11	7/15/2023 18:00	0.041	2.12	245.7	29	94.4	35.1
MS-08	11	7/15/2023 19:00	0.08	3.2	258.6	28.94	89.6	38.2
MS-12	11	7/15/2023 19:00	0.039	1.7	201.5	29.01	89.6	39

**Table A-1**  
**1-Hour Average H2S Community Monitoring Station Data**

Monitoring Station	Event #	Time	H <sub>2</sub> S	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			ppm	mph	°	in.Hg	(°F)	%
MS-08	11	7/15/2023 20:00	0.078	1.69	157.9	28.95	82.8	46
MS-12	11	7/15/2023 20:00	0.039	1.79	165	29.03	79.5	50.6
MS-08	11	7/15/2023 21:00	0.072	1.36	65	28.98	75.2	54.8
MS-12	11	7/15/2023 21:00	0.035	1.9	166.2	29.06	73.8	56.6
MS-08	11	7/15/2023 22:00	0.068	1.03	172.3	29	71.2	60.4
MS-12	11	7/15/2023 22:00	0.033	1.39	147.6	29.08	69.9	62
MS-08	11	7/15/2023 23:00	0.065	1.61	238.2	29	68.5	66
MS-12	11	7/15/2023 23:00	0.032	0.87	2	29.08	68.1	64.6
MS-08	11	7/16/2023 0:00	0.064	1.65	230.3	28.99	68.1	68.3
MS-12	11	7/16/2023 0:00	0.031	0.92	334.4	29.08	67.6	66.2
MS-08	11	7/16/2023 1:00	0.059	1.2	223.4	28.99	67.3	70.3
MS-12	11	7/16/2023 1:00	0.03	1.15	83	29.08	67	68.2
MS-08	11	7/16/2023 2:00	0.055	1.42	245.7	28.99	65.8	72.9
MS-08	11	7/16/2023 3:00	0.052	1.78	245	28.98	64.2	75.6
MS-08	11	7/16/2023 4:00	0.047	2.15	254.2	28.98	63.9	76.2
MS-08	11	7/16/2023 5:00	0.044	1.6	245.3	28.99	63.3	77.3
MS-08	11	7/16/2023 6:00	0.044	1.19	246.2	29.02	63.4	78.2
MS-08	11	7/16/2023 7:00	0.044	0.85	249.3	29.04	68.7	70
MS-08	11	7/16/2023 8:00	0.04	2.36	43.5	29.04	75.9	57
MS-08	11	7/16/2023 9:00	0.032	1.69	124.6	29.03	82.7	45.5
MS-08	12	7/19/2023 21:00	0.034	2.13	250.8	29.1	76.1	44.1
MS-08	12	7/19/2023 22:00	0.03	1.74	239.1	29.11	72.5	47.9
MS-08	12	7/19/2023 23:00	0.041	1.83	243	29.11	69.4	53.6
MS-08	12	7/20/2023 0:00	0.045	1.94	251.1	29.1	67.9	56.8
MS-08	12	7/20/2023 1:00	0.05	1.63	245.6	29.09	65.8	61
MS-08	12	7/20/2023 2:00	0.035	2.41	255.4	29.09	65.4	59.4
MS-08	12	7/20/2023 3:00	0.034	1.98	251.3	29.08	64	61.6
MS-08	13	7/20/2023 7:00	0.043	1.09	247.6	29.11	67.4	58
MS-08	14	7/20/2023 21:00	0.052	1.18	209.8	29.05	77.2	42.4
MS-12	14	7/20/2023 21:00	0.049	1.45	126.1	29.13	75.3	49.6
MS-08	14	7/20/2023 22:00	0.053	1.92	244.5	29.05	71.2	49
MS-12	14	7/20/2023 22:00	0.05	1.2	23.2	29.14	71.8	53.5
MS-08	14	7/20/2023 23:00	0.062	2.22	246.6	29.05	69.1	52.6
MS-12	14	7/20/2023 23:00	0.043	2.33	339	29.13	70.6	51.8
MS-08	14	7/21/2023 0:00	0.072	2.05	249.9	29.04	66.8	57.6
MS-12	14	7/21/2023 0:00	0.035	2.91	350.6	29.13	69.7	51.6
MS-08	14	7/21/2023 1:00	0.071	1.78	247.7	29.03	65.7	59.6
MS-12	14	7/21/2023 1:00	0.032	2.04	333.4	29.12	67.2	54.6
MS-08	14	7/21/2023 2:00	0.063	2.05	251.8	29.03	63.9	62.2
MS-12	14	7/21/2023 2:00	0.031	3.34	351.2	29.11	66.6	55.6
MS-08	14	7/21/2023 3:00	0.055	2.44	257.7	29.02	64	61.2
MS-08	14	7/21/2023 4:00	0.055	1.6	247.7	29.02	62.7	63.5
MS-08	14	7/21/2023 5:00	0.041	1.86	252.8	29.03	61	65.4
MS-08	14	7/21/2023 6:00	0.041	1.73	253.9	29.04	62.6	63
MS-08	14	7/21/2023 7:00	0.065	1.18	251.3	29.05	67.2	59.4



**Table A-1**  
**1-Hour Average H2S Community Monitoring Station Data**

Monitoring Station	Event #	Time	H <sub>2</sub> S	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			ppm	mph	°	in.Hg	(°F)	%
MS-08	14	7/21/2023 8:00	0.039	1.1	64.8	29.05	77.4	41.6
MS-12	14	7/21/2023 8:00	0.03	1.44	112.1	29.13	80.6	39.2
MS-08	15	7/21/2023 13:00	0.051	4.84	241.2	29.03	95.2	28.5
MS-08	15	7/21/2023 14:00	0.062	4.37	249.6	29.02	95.3	29.9
MS-12	15	7/21/2023 14:00	0.034	4.36	284.7	29.1	97	29
MS-08	15	7/21/2023 15:00	0.07	4.04	243.2	29.01	95.1	30.8
MS-12	15	7/21/2023 15:00	0.039	3.98	208.2	29.08	97.3	29.3
MS-08	15	7/21/2023 16:00	0.065	4.2	241.4	29	94.5	30.6
MS-12	15	7/21/2023 16:00	0.038	4.67	179.3	29.07	95.5	31.4
MS-08	15	7/21/2023 17:00	0.055	3.3	268.4	28.99	93.3	30.3
MS-12	16	7/21/2023 21:00	0.036	1.12	78.3	29.08	74.2	53.7
MS-08	17	7/22/2023 7:00	0.041	1.28	245.4	29	66.9	58.3
MS-08	18	7/22/2023 9:00	0.035	1.66	74.1	28.99	85.2	34.7
MS-08	18	7/22/2023 10:00	0.031	2.41	59.7	28.99	91.1	29.8
MS-08	19	7/22/2023 12:00	0.039	4.09	244.5	28.98	94.9	28
MS-08	19	7/22/2023 13:00	0.062	4.24	237.7	28.97	95.7	29.9
MS-12	19	7/22/2023 13:00	0.03	4.03	248.3	29.05	97.7	28.6
MS-08	19	7/22/2023 14:00	0.061	4.09	238.9	28.96	97	29
MS-08	19	7/22/2023 15:00	0.062	4.21	240.5	28.95	96.3	30
MS-08	19	7/22/2023 16:00	0.062	3.3	267.3	28.94	95.6	30.8
MS-12	19	7/22/2023 16:00	0.031	3.12	285.7	29.02	97	30.4
MS-08	19	7/22/2023 17:00	0.056	2.89	232.5	28.94	95.5	30.2
MS-08	19	7/22/2023 18:00	0.056	2.93	269.1	28.94	92.6	32.9
MS-08	19	7/22/2023 19:00	0.058	2.58	265.3	28.94	88.7	37.2
MS-08	19	7/22/2023 20:00	0.059	1.71	220.8	28.94	81.7	45.4
MS-08	19	7/22/2023 21:00	0.056	1.44	164.2	28.95	75.9	52.1
MS-08	19	7/22/2023 22:00	0.054	2.02	243.4	28.95	71.9	58.5
MS-08	19	7/22/2023 23:00	0.052	1.55	237	28.96	70.4	61.3
MS-08	19	7/23/2023 0:00	0.051	1.59	241	28.98	68.5	65.4
MS-08	19	7/23/2023 1:00	0.047	2.17	250	28.98	67.6	66.4
MS-08	19	7/23/2023 2:00	0.044	2.02	247.8	28.98	66	69.4
MS-08	19	7/23/2023 3:00	0.041	1.44	228.8	28.98	64.6	72.3
MS-08	19	7/23/2023 4:00	0.038	1.2	217.1	28.99	62.4	76.3
MS-08	19	7/23/2023 5:00	0.039	1.77	244.4	29.01	61	79.5
MS-08	19	7/23/2023 6:00	0.033	1.65	230.7	29.03	61.3	78.2
MS-08	19	7/23/2023 7:00	0.038	1.15	239.1	29.03	65.7	71.8
MS-08	19	7/23/2023 8:00	0.033	1.46	51.6	29.03	72.3	59.2
MS-08	20	7/23/2023 11:00	0.03	2.47	92.3	29.06	87.6	39.9
MS-08	21	7/24/2023 3:00	0.031	1.62	245.5	29.09	63.5	84.7
MS-08	21	7/24/2023 4:00	0.031	1.57	245.1	29.09	63.1	85.7
MS-08	21	7/24/2023 5:00	0.03	1.22	247.7	29.1	62.9	86.8
MS-08	22	7/28/2023 0:00	0.032	1.96	243.1	29.02	67.4	66.3
MS-08	23	7/28/2023 7:00	0.033	1.28	249.2	29.04	66.9	71.6
MS-08	24	8/3/2023 20:00	0.04	2.06	243.4	29.05	74.1	46.2
MS-08	24	8/3/2023 21:00	0.049	1.51	232.9	29.07	68.7	54.7

**Table A-1**  
**1-Hour Average H2S Community Monitoring Station Data**

Monitoring Station	Event #	Time	H <sub>2</sub> S	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			ppm	mph	°	in.Hg	(°F)	%
MS-12	24	8/3/2023 21:00	0.032	0.98	78.1	29.15	69.4	56.2
MS-08	24	8/3/2023 22:00	0.05	1.88	249.2	29.07	64.6	61.8
MS-12	24	8/3/2023 22:00	0.037	1.53	13.5	29.15	66	61.8
MS-08	24	8/3/2023 23:00	0.049	2.15	247.7	29.07	62	67.2
MS-08	24	8/4/2023 0:00	0.055	1.86	245.4	29.07	59.9	72.4
MS-08	24	8/4/2023 1:00	0.053	1.51	242.3	29.06	58.4	76.3
MS-08	24	8/4/2023 2:00	0.048	1.89	249.6	29.06	57.5	77.9
MS-08	24	8/4/2023 3:00	0.034	2	252.5	29.05	56.4	77.3
MS-08	25	8/4/2023 9:00	0.044	2.21	85.6	29.06	74.6	48.6
MS-08	26	8/4/2023 12:00	0.04	4.87	215.5	29.02	85.6	35.2
MS-08	26	8/4/2023 13:00	0.048	4.56	228.8	29	87.9	34.3
MS-12	26	8/4/2023 13:00	0.033	4	204.1	29.08	90.8	32.9
MS-08	26	8/4/2023 14:00	0.064	4.18	245.3	28.98	89.6	35.6
MS-12	26	8/4/2023 14:00	0.039	4.38	218.1	29.06	91.7	34.7
MS-08	26	8/4/2023 15:00	0.07	4.72	249.1	28.97	88.4	38.3
MS-12	26	8/4/2023 15:00	0.039	3.66	265.4	29.05	91.3	36.5
MS-08	26	8/4/2023 16:00	0.069	4.33	242.3	28.97	87.3	39.6
MS-12	26	8/4/2023 16:00	0.037	4.54	195.8	29.05	88.3	38.9
MS-08	26	8/4/2023 17:00	0.063	4	241.4	28.97	86.1	39.5
MS-12	26	8/4/2023 17:00	0.034	3.77	230.3	29.05	85.7	40.5
MS-08	26	8/4/2023 18:00	0.059	2.77	255.3	28.97	83.8	41.7
MS-12	26	8/4/2023 18:00	0.033	2.14	229.7	29.05	83.4	42.7
MS-08	26	8/4/2023 19:00	0.057	1.93	224.9	28.97	79.9	46.5
MS-12	26	8/4/2023 19:00	0.031	1.22	276	29.05	80	46.9
MS-08	26	8/4/2023 20:00	0.056	1.33	244.6	28.98	74.4	54.1
MS-12	26	8/4/2023 20:00	0.032	0.95	124.8	29.06	74.4	56.2
MS-08	26	8/4/2023 21:00	0.051	1.27	246.8	29	69.3	61.6
MS-12	26	8/4/2023 21:00	0.031	1.1	106.1	29.08	70.5	64.9
MS-08	26	8/4/2023 22:00	0.047	1.68	247.7	29	66.7	66
MS-12	26	8/4/2023 22:00	0.03	1.26	334.2	29.09	67.4	66.6
MS-08	26	8/4/2023 23:00	0.044	1.63	243	29.01	64.5	70.1
MS-08	26	8/5/2023 0:00	0.041	1.81	247.8	29	62.8	73.4
MS-08	26	8/5/2023 1:00	0.035	1.73	254.3	28.99	62	74.7
MS-08	27	8/5/2023 14:00	0.041	4.86	233.9	28.97	94	32.7
MS-08	28	8/6/2023 13:00	0.033	4.16	243.6	29.04	97.4	24.9
MS-08	29	8/6/2023 15:00	0.045	4.29	247.2	29.03	97	25.6
MS-08	29	8/6/2023 16:00	0.065	3.95	244.3	29.03	95.7	27.9
MS-12	29	8/6/2023 16:00	0.035	4.31	196.6	29.11	96.8	27.1
MS-08	29	8/6/2023 17:00	0.067	3.63	257.4	29.03	93.8	28.9
MS-12	29	8/6/2023 17:00	0.034	3.16	216.9	29.11	93.4	29
MS-08	29	8/6/2023 18:00	0.053	2.91	244	29.04	90.1	30.1
MS-11	29	8/6/2023 18:00	0.031	2.93	229.1	28.82	87.8	36.3
MS-08	29	8/6/2023 19:00	0.065	2.43	261.6	29.05	85.3	35.9
MS-11	29	8/6/2023 19:00	0.033	2.26	251	28.84	81.9	42.6
MS-12	29	8/6/2023 19:00	0.041	1.37	187.7	29.13	85.3	36.8

**Table A-1**  
**1-Hour Average H2S Community Monitoring Station Data**

Monitoring Station	Event #	Time	H <sub>2</sub> S	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			ppm	mph	°	in.Hg	(°F)	%
MS-08	29	8/6/2023 20:00	0.085	1.19	236.4	29.07	77.7	46.9
MS-11	29	8/6/2023 20:00	0.037	3.27	228.9	28.86	76	52.3
MS-12	29	8/6/2023 20:00	0.052	1.23	72.2	29.15	77.5	48.8
MS-08	29	8/6/2023 21:00	0.082	1.81	239.6	29.09	70.4	56.7
MS-11	29	8/6/2023 21:00	0.039	2.63	227.4	28.87	74	56.4
MS-12	29	8/6/2023 21:00	0.058	1.14	97.2	29.17	71.6	61.5
MS-08	29	8/6/2023 22:00	0.072	1.74	243.5	29.1	66.5	61.8
MS-11	29	8/6/2023 22:00	0.04	2.06	208.1	28.88	72.2	59.5
MS-12	29	8/6/2023 22:00	0.048	0.94	1.2	29.18	66.9	64.6
MS-08	29	8/6/2023 23:00	0.064	1.99	248.3	29.11	64.3	64.6
MS-11	29	8/6/2023 23:00	0.031	0.77	215.7	28.89	68.8	59.9
MS-12	29	8/6/2023 23:00	0.044	1.99	342.5	29.19	65.4	64.1
MS-08	29	8/7/2023 0:00	0.062	1.73	247.6	29.12	62.9	67.9
MS-11	29	8/7/2023 0:00	0.034	0.9	197.9	28.89	66.5	64.4
MS-12	29	8/7/2023 0:00	0.035	1.83	340.5	29.2	63.9	65.2
MS-08	29	8/7/2023 1:00	0.064	1.56	246.3	29.12	61.1	73.3
MS-12	29	8/7/2023 1:00	0.03	1.34	325.2	29.2	61.2	69.3
MS-08	29	8/7/2023 2:00	0.06	1.91	249.9	29.11	59.9	75.7
MS-08	29	8/7/2023 3:00	0.052	1.68	248.8	29.1	58.1	78.7
MS-08	29	8/7/2023 4:00	0.046	1.58	248.4	29.1	57	80.6
MS-08	29	8/7/2023 5:00	0.033	1.78	253	29.11	55.6	81.9
MS-08	30	8/7/2023 7:00	0.032	1.3	245.7	29.13	59.5	74.4
MS-08	31	8/7/2023 19:00	0.064	2.78	254.3	29.09	82.1	38.8
MS-11	31	8/7/2023 19:00	0.038	2.43	225.5	28.88	79.1	44.9
MS-08	31	8/7/2023 20:00	0.095	2.2	262.2	29.1	77	48.6
MS-11	31	8/7/2023 20:00	0.059	2.95	223.2	28.88	71.9	61.5
MS-12	31	8/7/2023 20:00	0.064	1.12	116.6	29.18	75.4	53.8
MS-08	31	8/7/2023 21:00	0.096	1.1	237.5	29.12	71	55.4
MS-11	31	8/7/2023 21:00	0.059	5.04	229.9	28.9	70	63.1
MS-12	31	8/7/2023 21:00	0.068	2.16	161.4	29.2	69.4	69.5
MS-08	31	8/7/2023 22:00	0.104	1.11	235.9	29.13	65.5	67.7
MS-11	31	8/7/2023 22:00	0.052	1.83	211.9	28.91	69.4	58.5
MS-12	31	8/7/2023 22:00	0.066	1.3	142.2	29.21	65.4	77.9
MS-08	31	8/7/2023 23:00	0.11	1.77	245	29.14	61.7	75.1
MS-11	31	8/7/2023 23:00	0.059	1.36	164	28.92	66.5	65.8
MS-12	31	8/7/2023 23:00	0.069	0.78	41.4	29.22	62.2	81.4
MS-08	31	8/8/2023 0:00	0.099	2.54	253	29.15	60	75.3
MS-11	31	8/8/2023 0:00	0.063	1.11	269.4	28.92	63.9	72.6
MS-12	31	8/8/2023 0:00	0.061	1.8	355.8	29.23	61.2	74.1
MS-08	31	8/8/2023 1:00	0.101	1.57	239.1	29.14	59	80.1
MS-11	31	8/8/2023 1:00	0.064	0.74	213.1	28.92	61.3	82.4
MS-12	31	8/8/2023 1:00	0.055	0.93	3.7	29.23	58.6	78.1
MS-08	31	8/8/2023 2:00	0.084	1.58	239.4	29.13	57	80.2
MS-11	31	8/8/2023 2:00	0.059	0.72	218.2	28.91	60.1	81.8
MS-12	31	8/8/2023 2:00	0.048	1.14	326.2	29.22	56.5	80

**Table A-1**  
**1-Hour Average H2S Community Monitoring Station Data**

Monitoring Station	Event #	Time	H <sub>2</sub> S	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			ppm	mph	°	in.Hg	(°F)	%
MS-08	31	8/8/2023 3:00	0.059	1.81	249.6	29.13	54.8	80.7
MS-11	31	8/8/2023 3:00	0.05	0.81	188.5	28.91	59.9	78
MS-12	31	8/8/2023 3:00	0.037	1.28	332.6	29.22	55.3	79.8
MS-11	31	8/8/2023 4:00	0.046	0.94	203.4	28.9	58.4	80.7
MS-11	31	8/8/2023 5:00	0.031	0.78	192.3	28.91	58.7	76.6
MS-08	32	8/8/2023 7:00	0.035	1.1	244.9	29.15	57	74.1
MS-08	33	8/8/2023 16:00	0.049	3.55	299.5	29.06	90.4	28.8
MS-08	33	8/8/2023 17:00	0.101	3.74	268.1	29.06	86.7	36.6
MS-11	33	8/8/2023 17:00	0.035	8.79	139.5	28.85	81.7	45
MS-12	33	8/8/2023 17:00	0.046	6.47	160.5	29.14	86.1	34.6
MS-08	33	8/8/2023 18:00	0.118	3.1	248.4	29.06	83.3	42.9
MS-11	33	8/8/2023 18:00	0.035	6.34	128.6	28.85	80.3	47.3
MS-12	33	8/8/2023 18:00	0.069	4.01	174.7	29.14	83.2	42.5
MS-08	33	8/8/2023 19:00	0.12	2.19	245.8	29.07	79	49.6
MS-11	33	8/8/2023 19:00	0.036	4.64	118.9	28.86	77.9	50.8
MS-12	33	8/8/2023 19:00	0.071	1.6	236.6	29.15	79.5	49.4
MS-08	33	8/8/2023 20:00	0.118	1.98	244.2	29.08	74	55.8
MS-11	33	8/8/2023 20:00	0.035	1.53	229.8	28.86	73.4	59.2
MS-12	33	8/8/2023 20:00	0.068	0.77	26.9	29.16	74	55.5
MS-08	33	8/8/2023 21:00	0.115	1.74	242.9	29.09	69.2	63.9
MS-11	33	8/8/2023 21:00	0.032	2.19	218.3	28.87	70.2	67.4
MS-12	33	8/8/2023 21:00	0.068	1.3	119.9	29.17	70	67.5
MS-08	33	8/8/2023 22:00	0.109	1.33	227.4	29.09	66.4	68.8
MS-12	33	8/8/2023 22:00	0.067	0.99	113.9	29.18	67	74.6
MS-08	33	8/8/2023 23:00	0.104	1.52	239.9	29.09	63.8	75
MS-12	33	8/8/2023 23:00	0.063	0.82	74.1	29.17	64.5	77.4
MS-08	33	8/9/2023 0:00	0.101	1.66	242	29.08	62.9	77.8
MS-12	33	8/9/2023 0:00	0.061	0.74	353	29.17	63.9	80.1
MS-08	33	8/9/2023 1:00	0.096	0.98	218.9	29.07	64.2	77.1
MS-12	33	8/9/2023 1:00	0.058	0.67	2.3	29.16	64.4	75.8
MS-08	33	8/9/2023 2:00	0.09	1.12	241.3	29.06	63.3	79.2
MS-12	33	8/9/2023 2:00	0.051	0.68	5.6	29.15	63.3	76
MS-08	33	8/9/2023 3:00	0.087	1.1	244.7	29.06	62.1	83.4
MS-12	33	8/9/2023 3:00	0.046	0.9	342.9	29.14	62.2	77.7
MS-08	33	8/9/2023 4:00	0.08	0.94	237.5	29.05	62.6	84.2
MS-12	33	8/9/2023 4:00	0.046	0.86	0.1	29.14	62.6	79.6
MS-08	33	8/9/2023 5:00	0.077	1.16	233.7	29.06	62.9	83.3
MS-12	33	8/9/2023 5:00	0.043	0.76	273.3	29.14	63.2	79.7
MS-08	33	8/9/2023 6:00	0.072	0.84	202.5	29.07	64.1	82
MS-12	33	8/9/2023 6:00	0.041	0.79	194.8	29.15	63.8	79.1
MS-08	33	8/9/2023 7:00	0.067	0.73	170.7	29.08	66	78.3
MS-12	33	8/9/2023 7:00	0.039	0.88	193.5	29.17	64.9	77.7
MS-08	33	8/9/2023 8:00	0.061	1.27	178.8	29.09	70.3	73.1
MS-12	33	8/9/2023 8:00	0.033	1.77	182.6	29.17	71.3	69
MS-08	33	8/9/2023 9:00	0.051	2.11	72.7	29.08	76.4	62.2

**Table A-1**  
**1-Hour Average H2S Community Monitoring Station Data**

Monitoring Station	Event #	Time	H <sub>2</sub> S	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			ppm	mph	°	in.Hg	(°F)	%
MS-08	33	8/9/2023 10:00	0.045	2.73	85.7	29.07	80.1	55.3
MS-08	33	8/9/2023 11:00	0.044	3.22	280.9	29.07	83.2	48.2
MS-08	33	8/9/2023 12:00	0.035	3.65	246.9	29.05	85.5	40.7
MS-08	33	8/9/2023 14:00	0.033	4.16	231.1	29.03	87.1	45.2
MS-08	34	8/16/2023 21:00	0.037	1.25	200.6	28.99	75.9	55.2
MS-08	34	8/16/2023 22:00	0.033	1.78	233.8	28.99	72.2	59
MS-08	34	8/16/2023 23:00	0.035	1.72	247	28.99	69.3	64.6
MS-08	34	8/17/2023 0:00	0.033	1.61	247.4	28.99	67.5	66.8
MS-08	34	8/17/2023 1:00	0.03	1.98	252.4	28.99	66.3	67.3
MS-08	35	8/17/2023 7:00	0.031	1.2	235.8	29.01	65.5	72
MS-08	36	8/17/2023 23:00	0.031	1.75	243.8	29	64	67.4
MS-12	37	8/18/2023 21:00	0.034	1.69	144	29.03	68.7	63.6
MS-12	37	8/18/2023 22:00	0.035	0.96	76.5	29.05	64.5	71
MS-08	38	8/19/2023 12:00	0.037	4.15	271.4	28.96	87.2	32.5
MS-08	38	8/19/2023 13:00	0.043	3.7	261.7	28.95	87.8	32.2
MS-08	38	8/19/2023 14:00	0.051	3.54	308.3	28.93	87.2	33.9
MS-08	38	8/19/2023 15:00	0.068	4.01	347.5	28.92	86.7	36.8
MS-12	38	8/19/2023 15:00	0.033	5.92	166.8	29	86.7	37
MS-08	38	8/19/2023 16:00	0.075	3.36	251.7	28.91	85.8	39.1
MS-12	38	8/19/2023 16:00	0.037	3.61	206.4	29	86.8	38.4
MS-08	38	8/19/2023 17:00	0.076	3.2	235.6	28.9	84.3	41.1
MS-12	38	8/19/2023 17:00	0.037	2.96	251.3	28.99	85	40.8
MS-08	38	8/19/2023 18:00	0.073	2.1	257.6	28.9	81	44.3
MS-12	38	8/19/2023 18:00	0.035	2.08	181.8	28.99	81.9	43.4
MS-08	38	8/19/2023 19:00	0.072	1.89	157.5	28.9	78.3	48.6
MS-12	38	8/19/2023 19:00	0.039	2.04	202.4	28.99	78	50.7
MS-08	38	8/19/2023 20:00	0.074	1.28	220	28.92	75.2	55.1
MS-12	38	8/19/2023 20:00	0.038	1.3	188.7	29.01	74.6	56.5
MS-08	38	8/19/2023 21:00	0.071	1.03	152.9	28.93	75.2	55.1
MS-12	38	8/19/2023 21:00	0.036	1.88	178.2	29.02	73.8	57.2
MS-08	38	8/19/2023 22:00	0.067	1.28	54.3	28.93	74	56.6
MS-12	38	8/19/2023 22:00	0.035	1.83	156.7	29.02	72.5	60.9
MS-08	38	8/19/2023 23:00	0.067	0.91	147.4	28.92	73.3	58.7
MS-12	38	8/19/2023 23:00	0.033	1.06	149.2	29.01	72.5	61.9
MS-08	38	8/20/2023 0:00	0.064	0.86	197.9	28.9	72.2	61.8
MS-12	38	8/20/2023 0:00	0.031	1.13	184.4	29	71.5	64.3
MS-08	38	8/20/2023 1:00	0.061	1.06	219.8	28.89	71.8	63.2
MS-12	38	8/20/2023 1:00	0.03	1.02	343.9	28.98	72	63
MS-08	38	8/20/2023 2:00	0.058	1.15	239.3	28.88	71.9	64.4
MS-08	38	8/20/2023 3:00	0.048	1.89	96.1	28.87	74.2	66
MS-08	38	8/20/2023 4:00	0.034	2.54	57.8	28.86	75.9	65.8
MS-08	39	8/27/2023 0:00	0.033	1.78	247.3	29.07	60.4	75
MS-08	39	8/27/2023 1:00	0.034	1.93	254.6	29.07	59	77.9
MS-06	40	8/27/2023 18:00	0.034	7.08	235.1	29.13	92.5	22.2
MS-06	40	8/27/2023 19:00	0.054	2.57	256.8	29.14	84.6	29.7

**Table A-1**  
**1-Hour Average H2S Community Monitoring Station Data**

Monitoring Station	Event #	Time	H <sub>2</sub> S	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			ppm	mph	°	in.Hg	(°F)	%
MS-06	40	8/27/2023 20:00	0.121	2.92	287.2	29.16	77.8	49.6
MS-06	40	8/27/2023 21:00	0.15	2.36	277.5	29.17	73.6	57.7
MS-06	40	8/27/2023 22:00	0.147	2.15	261.9	29.18	70.2	61.8
MS-08	40	8/27/2023 22:00	0.042	1.99	250.4	29.03	66.6	57.2
MS-06	40	8/27/2023 23:00	0.125	2.3	264.1	29.18	69.2	63.8
MS-08	40	8/27/2023 23:00	0.059	2.19	257.6	29.03	65.2	63.4
MS-12	40	8/27/2023 23:00	0.031	2.2	334	29.12	66.4	59.8
MS-06	40	8/28/2023 0:00	0.11	2.29	261	29.18	67.7	64.9
MS-08	40	8/28/2023 0:00	0.07	2.16	250.1	29.02	64.4	68.3
MS-12	40	8/28/2023 0:00	0.038	2.12	333.4	29.11	64.9	65.3
MS-06	40	8/28/2023 1:00	0.091	2.87	277	29.18	67.2	64.3
MS-08	40	8/28/2023 1:00	0.074	1.69	248.7	29.02	62.7	73.2
MS-12	40	8/28/2023 1:00	0.042	2.88	344.4	29.11	64.1	69.8
MS-06	40	8/28/2023 2:00	0.088	2.23	255.3	29.17	66.3	64.8
MS-08	40	8/28/2023 2:00	0.072	2.28	254.4	29.01	62.4	73.5
MS-12	40	8/28/2023 2:00	0.042	2.61	336.5	29.1	63.1	72.6
MS-06	40	8/28/2023 3:00	0.082	2.31	263	29.17	64.8	68.1
MS-08	40	8/28/2023 3:00	0.072	1.57	251.8	29.01	60.9	77
MS-12	40	8/28/2023 3:00	0.041	2.88	350.1	29.1	62.8	73.5
MS-06	40	8/28/2023 4:00	0.076	2.49	256.3	29.17	65	66.4
MS-08	40	8/28/2023 4:00	0.066	2.22	261.2	29.01	60.9	76
MS-12	40	8/28/2023 4:00	0.038	3.35	348.5	29.1	62.6	72.8
MS-06	40	8/28/2023 5:00	0.07	1.8	260.2	29.18	63.1	70.4
MS-08	40	8/28/2023 5:00	0.062	1.84	259.4	29.02	60.4	76.7
MS-12	40	8/28/2023 5:00	0.037	2.76	342.6	29.11	61.5	74.8
MS-06	40	8/28/2023 6:00	0.063	2.31	257	29.19	62.1	73.2
MS-08	40	8/28/2023 6:00	0.059	1.6	252	29.03	59.6	78.7
MS-12	40	8/28/2023 6:00	0.035	2.49	335.2	29.12	60.8	76.3
MS-06	40	8/28/2023 7:00	0.054	1.73	204	29.19	69	60.6
MS-08	40	8/28/2023 7:00	0.062	1.8	245.4	29.03	62.8	74.9
MS-12	40	8/28/2023 7:00	0.034	2.49	2.7	29.12	64.9	69.1
MS-06	40	8/28/2023 8:00	0.037	1.92	72.7	29.19	75.7	47.3
MS-08	40	8/28/2023 8:00	0.064	1.09	310.4	29.03	72.8	57.2
MS-12	40	8/28/2023 8:00	0.035	1.61	110.9	29.12	74.9	51.9
MS-08	40	8/28/2023 9:00	0.046	1.46	50	29.03	83.5	40
MS-12	40	8/28/2023 9:00	0.033	2.16	163.2	29.11	83.3	40.2
MS-08	40	8/28/2023 10:00	0.037	1.85	56.4	29.02	90.2	32.5
MS-06	41	8/28/2023 18:00	0.034	6.02	222.3	29.1	95.6	23.8
MS-06	41	8/28/2023 19:00	0.066	3.49	249.8	29.11	88.8	29.3
MS-06	41	8/28/2023 20:00	0.08	2.45	289.6	29.13	81.6	40.5
MS-06	41	8/28/2023 21:00	0.175	2.52	285.5	29.15	77	52.3
MS-06	41	8/28/2023 22:00	0.175	1.96	259.7	29.15	72.4	58.9
MS-08	41	8/28/2023 22:00	0.031	2.25	254.4	29	68.9	54.1
MS-06	41	8/28/2023 23:00	0.162	2.48	255.5	29.15	70.3	60.4
MS-08	41	8/28/2023 23:00	0.053	2.12	253.3	28.99	66.7	63.3

**Table A-1**  
**1-Hour Average H2S Community Monitoring Station Data**

Monitoring Station	Event #	Time	H <sub>2</sub> S	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			ppm	mph	°	in.Hg	(°F)	%
MS-12	41	8/28/2023 23:00	0.03	2.85	344.8	29.08	68.8	58.9
MS-06	41	8/29/2023 0:00	0.138	2.35	258.8	29.15	69.5	61.2
MS-08	41	8/29/2023 0:00	0.065	2.18	252.7	29	65.4	69.5
MS-12	41	8/29/2023 0:00	0.035	2.54	334.4	29.09	66.7	65.2
MS-06	41	8/29/2023 1:00	0.116	2.41	257.4	29.15	68.2	60.7
MS-08	41	8/29/2023 1:00	0.066	1.98	256.2	28.99	64.2	72.2
MS-12	41	8/29/2023 1:00	0.037	2.52	334.8	29.08	65.1	70.3
MS-06	41	8/29/2023 2:00	0.108	2.4	258.1	29.15	66.4	64.1
MS-08	41	8/29/2023 2:00	0.06	1.99	252	28.99	63.1	73.3
MS-12	41	8/29/2023 2:00	0.036	2.97	341.9	29.08	64.3	71.7
MS-06	41	8/29/2023 3:00	0.102	2.51	256.5	29.15	65.5	66.1
MS-08	41	8/29/2023 3:00	0.059	1.87	253.5	28.99	61.1	78
MS-12	41	8/29/2023 3:00	0.033	3.43	352.6	29.08	63.7	72.5
MS-06	41	8/29/2023 4:00	0.097	2.05	261.2	29.15	63.9	69.5
MS-08	41	8/29/2023 4:00	0.053	2.63	262.4	28.99	61.4	76.6
MS-12	41	8/29/2023 4:00	0.032	2.73	338.7	29.08	62.4	74.4
MS-06	41	8/29/2023 5:00	0.086	2	260	29.15	62.3	73.5
MS-08	41	8/29/2023 5:00	0.052	1.9	254.9	28.99	60.1	78.7
MS-06	41	8/29/2023 6:00	0.077	2.34	261	29.17	62.9	71.2
MS-08	41	8/29/2023 6:00	0.048	1.84	256.1	29.01	59.3	80.3
MS-06	41	8/29/2023 7:00	0.067	1.5	303.6	29.18	68.7	60.8
MS-08	41	8/29/2023 7:00	0.052	1.85	250.9	29.02	62.2	76.7
MS-06	41	8/29/2023 8:00	0.049	1.81	96.5	29.18	76.1	46.1
MS-08	41	8/29/2023 8:00	0.047	1.08	258.9	29.02	71.5	57.5
MS-06	42	8/29/2023 18:00	0.1	5.3	237.3	29.07	93.5	29.4
MS-06	42	8/29/2023 19:00	0.119	2.12	269.2	29.08	86.1	35.7
MS-08	42	8/29/2023 19:00	0.045	1.87	251	28.93	81	43.5
MS-06	42	8/29/2023 20:00	0.139	3.24	280	29.1	80	46.5
MS-08	42	8/29/2023 20:00	0.047	1.91	244.2	28.95	73.8	53.5
MS-06	42	8/29/2023 21:00	0.155	2.53	288.3	29.12	77.3	50.4
MS-08	42	8/29/2023 21:00	0.048	2.48	254.3	28.97	70.4	59.6
MS-06	42	8/29/2023 22:00	0.168	2.46	258.9	29.12	71.8	59.8
MS-08	42	8/29/2023 22:00	0.048	1.89	247	28.97	67.7	65
MS-06	42	8/29/2023 23:00	0.146	2.45	259.2	29.13	70.7	59.6
MS-08	42	8/29/2023 23:00	0.047	2.23	258.1	28.98	66	68.8
MS-06	42	8/30/2023 0:00	0.124	2.68	260.9	29.13	69.1	62.4
MS-08	42	8/30/2023 0:00	0.046	2.13	252.1	28.98	63.9	73.3
MS-06	42	8/30/2023 1:00	0.103	2.6	259.8	29.13	66.9	66.2
MS-08	42	8/30/2023 1:00	0.043	1.83	251	28.97	62.4	75.8
MS-06	42	8/30/2023 2:00	0.099	2.39	262.7	29.13	64.9	69.3
MS-08	42	8/30/2023 2:00	0.039	1.71	248.1	28.97	60.7	78.9
MS-06	42	8/30/2023 3:00	0.094	2.49	264	29.13	63.8	70.3
MS-08	42	8/30/2023 3:00	0.033	2.04	259.7	28.97	59.7	79.5
MS-06	42	8/30/2023 4:00	0.087	2.22	260.1	29.13	62	72.3
MS-06	42	8/30/2023 5:00	0.08	2.26	262.5	29.13	60.9	74.1

**Table A-1**  
**1-Hour Average H2S Community Monitoring Station Data**

Monitoring Station	Event #	Time	H <sub>2</sub> S	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			ppm	mph	°	in.Hg	(°F)	%
MS-06	42	8/30/2023 6:00	0.07	2.03	264	29.15	59.9	76
MS-06	42	8/30/2023 7:00	0.06	1.98	118.5	29.16	65.3	65.8
MS-06	42	8/30/2023 8:00	0.045	2.39	73.3	29.16	72.4	50.9
MS-06	43	8/30/2023 18:00	0.047	5.4	206	29.07	90.6	29.3
MS-06	43	8/30/2023 19:00	0.115	4.6	233.7	29.07	82.7	36.8
MS-08	43	8/30/2023 19:00	0.031	1.88	245.5	28.91	80.4	38.8
MS-06	43	8/30/2023 20:00	0.174	2.53	289.7	29.09	75.6	50.3
MS-08	43	8/30/2023 20:00	0.03	1.83	238.4	28.93	73.8	47
MS-06	43	8/30/2023 21:00	0.184	3.45	298.7	29.11	71.5	61.8
MS-08	43	8/30/2023 21:00	0.044	1.99	243.5	28.95	67.7	58.8
MS-12	43	8/30/2023 21:00	0.036	1.06	7	29.04	68.2	62.3
MS-06	43	8/30/2023 22:00	0.157	2.71	279.4	29.12	68.7	67.5
MS-08	43	8/30/2023 22:00	0.047	2.17	247.2	28.96	64.5	65.2
MS-12	43	8/30/2023 22:00	0.036	1.41	339.8	29.05	65.3	67.8
MS-06	43	8/30/2023 23:00	0.138	2.25	264.8	29.13	66	69.6
MS-08	43	8/30/2023 23:00	0.052	1.91	248.9	28.97	62.2	71.4
MS-12	43	8/30/2023 23:00	0.033	2.23	337.2	29.06	64.2	68.7
MS-06	43	8/31/2023 0:00	0.122	2.03	259.8	29.13	63.9	73.7
MS-08	43	8/31/2023 0:00	0.055	2.04	251.2	28.97	61.4	74.8
MS-12	43	8/31/2023 0:00	0.03	2.75	342	29.06	62.9	70.4
MS-06	43	8/31/2023 1:00	0.115	2.25	255	29.13	63.2	74.2
MS-08	43	8/31/2023 1:00	0.054	1.72	250	28.97	60.2	78
MS-06	43	8/31/2023 2:00	0.106	2.18	258	29.12	62.4	75.7
MS-08	43	8/31/2023 2:00	0.051	2	253.8	28.96	58.9	80.6
MS-06	43	8/31/2023 3:00	0.095	2.16	257.6	29.11	62	76.2
MS-08	43	8/31/2023 3:00	0.046	2.29	256.2	28.95	58.4	81.3
MS-06	43	8/31/2023 4:00	0.085	1.9	258.5	29.1	60.9	78.3
MS-08	43	8/31/2023 4:00	0.043	1.96	251.4	28.94	57.6	82.9
MS-06	43	8/31/2023 5:00	0.075	1.91	256.7	29.1	59.5	80.4
MS-08	43	8/31/2023 5:00	0.037	1.53	252.8	28.93	57.4	82.7
MS-06	43	8/31/2023 6:00	0.065	2.31	254.4	29.1	59.3	80.2
MS-06	43	8/31/2023 7:00	0.055	2.08	167.3	29.12	64.3	70.7
MS-08	43	8/31/2023 7:00	0.035	1.45	250.2	28.95	58.8	80.2
MS-06	43	8/31/2023 8:00	0.044	1.98	86.4	29.12	70.9	55.4
MS-08	43	8/31/2023 8:00	0.033	1.09	216.1	28.95	68.5	59.7
MS-06	43	8/31/2023 9:00	0.03	2.49	99	29.11	77.2	43.5
MS-08	44	8/31/2023 18:00	0.04	2.4	250.9	28.89	84.3	44
MS-08	44	8/31/2023 19:00	0.055	2.39	239.9	28.9	75.7	62.8
MS-08	44	8/31/2023 20:00	0.056	1.43	229	28.91	71.1	69.5
MS-08	44	8/31/2023 21:00	0.061	1.06	238.7	28.93	66.9	76.6
MS-08	44	8/31/2023 22:00	0.063	1.12	236.8	28.94	64.5	84.2
MS-08	44	8/31/2023 23:00	0.064	1.39	242.2	28.94	62.6	88.7
MS-12	44	8/31/2023 23:00	0.033	0.69	31.4	29.03	62.9	90.4
MS-08	44	9/1/2023 0:00	0.06	1.32	225.2	28.94	62.1	89.3
MS-12	44	9/1/2023 0:00	0.035	0.77	11.9	29.03	61.5	91



**Table A-1  
1-Hour Average H2S Community Monitoring Station Data**

Monitoring Station	Event #	Time	H <sub>2</sub> S	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			ppm	mph	°	in.Hg	(°F)	%
MS-08	44	9/1/2023 1:00	0.057	1.44	241.4	28.94	60.5	90.4
MS-12	44	9/1/2023 1:00	0.033	1.71	2.6	29.03	60.7	91.5
MS-08	44	9/1/2023 2:00	0.052	1.6	242.3	28.94	59.8	89.4
MS-08	44	9/1/2023 3:00	0.046	2	259	28.94	59.5	88.1
MS-08	44	9/1/2023 4:00	0.04	1.69	252.3	28.93	59.3	86.7
MS-08	44	9/1/2023 5:00	0.037	1.01	223.7	28.94	58.3	89
MS-08	44	9/1/2023 6:00	0.033	1.64	245.6	28.96	57.3	90.2
MS-08	44	9/1/2023 7:00	0.036	1.52	242.3	28.97	60.6	85.5
MS-08	44	9/1/2023 8:00	0.037	0.95	121.2	28.97	69.4	68.6
MS-08	45	9/7/2023 21:00	0.03	2.2	252.3	29.09	63.1	80.2
MS-06	46	9/8/2023 22:00	0.031	2.08	274.9	29.31	72.2	50.8
MS-06	46	9/8/2023 23:00	0.032	2.25	287.7	29.31	71.5	52.5
MS-06	46	9/9/2023 0:00	0.049	1.86	256.5	29.31	69.5	58.6
MS-06	46	9/9/2023 1:00	0.051	2.23	261.6	29.31	67.6	63.3
MS-08	46	9/9/2023 1:00	0.032	1.39	245.2	29.15	65.6	62.3
MS-06	46	9/9/2023 2:00	0.049	2.04	256.6	29.31	67.8	64
MS-08	46	9/9/2023 2:00	0.034	1.96	252.1	29.15	64.4	65.8
MS-06	46	9/9/2023 3:00	0.046	1.95	257.3	29.3	66.5	67.3
MS-08	46	9/9/2023 3:00	0.038	1.75	255.3	29.15	63.8	69
MS-06	46	9/9/2023 4:00	0.04	1.72	255.9	29.3	66.1	68.9
MS-08	46	9/9/2023 4:00	0.047	1.57	237.2	29.14	63.3	73
MS-06	46	9/9/2023 5:00	0.038	2.04	263.7	29.3	65	72.1
MS-08	46	9/9/2023 5:00	0.052	1.41	253.9	29.14	62.4	76.9
MS-06	46	9/9/2023 6:00	0.032	1.53	244.1	29.3	64.4	75.3
MS-08	46	9/9/2023 6:00	0.053	1.25	250.5	29.14	61.8	79.8
MS-06	46	9/9/2023 7:00	0.031	1.78	58.9	29.31	68.3	69.3
MS-08	46	9/9/2023 7:00	0.056	1.13	243.9	29.15	64	77.9
MS-12	46	9/9/2023 7:00	0.03	1.6	357	29.24	65	75.5
MS-06	46	9/9/2023 8:00	0.037	2.06	84.5	29.3	74.3	57.8
MS-08	46	9/9/2023 8:00	0.053	0.95	287.5	29.14	72.5	62.1
MS-08	46	9/9/2023 9:00	0.05	1.3	146	29.14	81.3	49.1
MS-08	46	9/9/2023 10:00	0.047	1.53	131.5	29.13	88	41.2
MS-08	46	9/9/2023 11:00	0.041	2.66	255.6	29.12	92.1	35.2
MS-08	46	9/9/2023 12:00	0.041	3.29	258.4	29.1	93.8	34.8
MS-08	46	9/9/2023 13:00	0.037	3.79	243	29.09	94.3	36
MS-08	46	9/9/2023 14:00	0.034	4.41	248.3	29.08	92.8	35.6
MS-08	46	9/9/2023 15:00	0.034	4.24	233.7	29.06	92.1	36.1
MS-08	46	9/9/2023 16:00	0.033	4.43	218.2	29.06	90.2	37.8
MS-08	47	9/9/2023 21:00	0.032	1.59	236.1	29.09	75.1	56
MS-08	47	9/9/2023 22:00	0.031	1.6	238.1	29.08	73.6	61.3
MS-08	47	9/9/2023 23:00	0.032	1.73	254.9	29.08	73.8	61.6
MS-08	47	9/10/2023 0:00	0.03	1.31	246.4	29.08	73.6	63.1
MS-08	47	9/10/2023 1:00	0.03	1.09	228.5	29.08	73.4	63.3
MS-06	48	9/20/2023 4:00	0.031	1.74	264.9	29.15	56.5	93.8
MS-08	49	9/20/2023 6:00	0.03	0.76	193.5	29	58.3	90.5

**Table A-1  
1-Hour Average H2S Community Monitoring Station Data**

Monitoring Station	Event #	Time	H <sub>2</sub> S	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			ppm	mph	°	in.Hg	(°F)	%
MS-08	49	9/20/2023 7:00	0.033	0.9	223.5	29	59.3	89.9
MS-08	49	9/20/2023 8:00	0.034	1.06	188.7	29	62.8	83
MS-06	50	9/22/2023 4:00	0.067	1.61	242	29.23	53.2	92
MS-06	50	9/22/2023 5:00	0.036	1.58	273	29.22	53	92.6
MS-06	50	9/22/2023 6:00	0.037	1.6	245.2	29.24	54.3	90.3
MS-08	51	9/22/2023 19:00	0.032	1.16	220.5	29.07	66	72.8
MS-08	51	9/22/2023 20:00	0.033	1.75	238.1	29.08	64	76.8
MS-06	52	9/23/2023 6:00	0.031	1.74	249.8	29.27	54	89.7
MS-06	52	9/23/2023 7:00	0.041	1.92	236.7	29.28	55.7	87.7
MS-08	53	9/23/2023 18:00	0.03	3.12	257.6	29.06	71.1	60.6
MS-08	54	9/23/2023 20:00	0.031	1.54	243.9	29.09	61.1	78.6
MS-08	55	9/24/2023 16:00	0.043	3.45	252.3	29.06	82	44.3
MS-08	55	9/24/2023 17:00	0.04	2.77	259.3	29.06	79.1	47.2
MS-08	55	9/24/2023 18:00	0.038	2.65	250.9	29.07	72.5	56.2
MS-08	55	9/24/2023 19:00	0.042	2.27	242.7	29.09	65.6	68.9
MS-08	55	9/24/2023 20:00	0.038	1.46	241.2	29.1	60.7	77.3
MS-08	56	9/25/2023 16:00	0.041	4.11	239.5	29.1	80.2	42.6
MS-08	56	9/25/2023 17:00	0.052	2.46	255.3	29.1	78.3	45.7
MS-12	56	9/25/2023 17:00	0.031	2.42	240.5	29.2	77	48.5
MS-08	56	9/25/2023 18:00	0.049	1.87	259.6	29.11	72.5	53.1
MS-08	56	9/25/2023 19:00	0.049	2.46	253.7	29.13	67.3	61.4
MS-08	56	9/25/2023 20:00	0.045	1.96	254.1	29.14	63.5	67.5
MS-08	56	9/25/2023 21:00	0.037	1.8	242.2	29.16	59.4	74.4
MS-08	57	9/26/2023 17:00	0.039	2.93	253.3	29.03	83.9	35.8
MS-08	57	9/26/2023 18:00	0.053	2.04	251.1	29.03	76.3	45
MS-12	57	9/26/2023 18:00	0.04	1.14	353.7	29.13	75.7	47.9
MS-08	57	9/26/2023 19:00	0.053	2.37	249.6	29.04	67.3	57.4
MS-12	57	9/26/2023 19:00	0.036	1.08	353.3	29.14	67.8	59.2
MS-08	57	9/26/2023 20:00	0.046	2	244.3	29.05	62.7	65
MS-12	57	9/26/2023 20:00	0.032	1.03	347.1	29.15	62.6	66.8
MS-06	57	9/26/2023 21:00	0.034	2	267.8	29.21	66.3	59.8
MS-08	57	9/26/2023 21:00	0.043	2.24	249.6	29.06	60.3	69.6
MS-12	57	9/26/2023 21:00	0.03	1.87	332	29.16	60.4	70.3
MS-06	57	9/26/2023 22:00	0.034	2.29	257.3	29.23	62.6	67.1
MS-08	57	9/26/2023 22:00	0.044	1.97	247.1	29.07	58.3	74.5
MS-08	57	9/26/2023 23:00	0.037	1.98	242.2	29.08	57.1	76.2
MS-08	58	9/27/2023 11:00	0.043	1.41	88.4	29.02	77	42.7
MS-08	58	9/27/2023 12:00	0.038	1.61	47.7	29	83.4	36.3
MS-08	59	9/27/2023 14:00	0.04	4.07	241	28.96	87.3	32.7
MS-08	59	9/27/2023 15:00	0.064	3.91	250.4	28.95	86.6	35.4
MS-12	59	9/27/2023 15:00	0.046	3.27	231.7	29.05	88.9	34.6
MS-06	59	9/27/2023 16:00	0.035	8.47	234.4	29.1	85	38
MS-08	59	9/27/2023 16:00	0.068	3.76	245.4	28.95	84.7	37.8
MS-12	59	9/27/2023 16:00	0.045	3.13	212.6	29.05	85	38.2
MS-06	59	9/27/2023 17:00	0.033	6.96	240.8	29.1	82.5	39.7

**Table A-1**  
**1-Hour Average H2S Community Monitoring Station Data**

Monitoring Station	Event #	Time	H <sub>2</sub> S	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			ppm	mph	°	in.Hg	(°F)	%
MS-08	59	9/27/2023 17:00	0.061	2.91	260.5	28.96	81.8	39.9
MS-12	59	9/27/2023 17:00	0.039	2.28	226.8	29.05	81.3	40.9
MS-06	59	9/27/2023 18:00	0.044	4.58	242.3	29.11	78.4	45.8
MS-08	59	9/27/2023 18:00	0.068	2.79	262.9	28.96	76.8	47.8
MS-12	59	9/27/2023 18:00	0.046	1.44	358.5	29.06	76.5	48.9
MS-06	59	9/27/2023 19:00	0.035	2.24	282.3	29.12	72.2	55.5
MS-08	59	9/27/2023 19:00	0.074	1.56	247.6	28.97	69.3	59.4
MS-12	59	9/27/2023 19:00	0.051	1.21	340.4	29.07	69	61.2
MS-06	59	9/27/2023 20:00	0.032	2.82	303.2	29.13	68.3	61.5
MS-08	59	9/27/2023 20:00	0.065	1.67	246.5	28.98	63.6	68.5
MS-12	59	9/27/2023 20:00	0.044	1.22	342.8	29.08	63.2	70
MS-06	59	9/27/2023 21:00	0.043	1.97	259.3	29.15	65.4	67
MS-08	59	9/27/2023 21:00	0.06	2.37	250.4	28.99	60.7	74.2
MS-12	59	9/27/2023 21:00	0.042	1.77	334.3	29.09	60.9	74.6
MS-06	59	9/27/2023 22:00	0.036	2.34	265.3	29.15	63.2	71.5
MS-08	59	9/27/2023 22:00	0.054	2.12	248.8	29	58.8	78.1
MS-12	59	9/27/2023 22:00	0.039	2.71	346.6	29.1	60.1	76.2
MS-06	59	9/27/2023 23:00	0.031	2.41	258.8	29.15	61.4	74.9
MS-08	59	9/27/2023 23:00	0.052	2.17	251.4	28.99	57.3	81.9
MS-12	59	9/27/2023 23:00	0.034	2.77	346	29.09	59.2	77.3
MS-08	59	9/28/2023 0:00	0.046	2.16	258.1	28.99	56.3	83.4
MS-08	59	9/28/2023 1:00	0.034	2.07	254.1	28.99	55.1	84.2
MS-08	60	9/28/2023 11:00	0.037	3.58	225.9	28.98	76.7	46.7
MS-08	60	9/28/2023 12:00	0.055	4.02	234.5	28.96	77.9	48.4
MS-12	60	9/28/2023 12:00	0.033	4.01	192.8	29.06	79.8	46.2
MS-08	60	9/28/2023 13:00	0.061	4.23	253	28.95	78.8	48.8
MS-12	60	9/28/2023 13:00	0.036	3.8	196.8	29.04	81.1	46.5
MS-08	60	9/28/2023 14:00	0.063	3.89	256.7	28.93	79.6	49.2
MS-12	60	9/28/2023 14:00	0.038	4.38	175.3	29.03	81	48.2
MS-08	60	9/28/2023 15:00	0.063	3.91	249.2	28.92	79	51.5
MS-12	60	9/28/2023 15:00	0.035	3.61	288.7	29.02	80.6	49.9
MS-08	60	9/28/2023 16:00	0.059	3.49	238.6	28.92	78.2	52.8
MS-12	60	9/28/2023 16:00	0.034	3.3	225.5	29.01	78.7	52.9
MS-08	60	9/28/2023 17:00	0.058	3.03	257	28.92	75.1	58.9
MS-12	60	9/28/2023 17:00	0.032	2.67	214.2	29.02	74.8	60.4
MS-08	60	9/28/2023 18:00	0.056	2.48	261.2	28.93	70.3	67.6
MS-12	60	9/28/2023 18:00	0.031	1.62	301.1	29.03	71	67.3
MS-08	60	9/28/2023 19:00	0.055	1.85	238	28.94	66.6	74.7
MS-12	60	9/28/2023 19:00	0.031	0.95	18	29.04	66.7	74.9
MS-08	60	9/28/2023 20:00	0.053	1.21	240.9	28.95	62.6	82
MS-12	60	9/28/2023 20:00	0.03	0.81	163.1	29.06	63.2	82.7
MS-08	60	9/28/2023 21:00	0.05	0.98	242.5	28.96	59.7	86.5
MS-08	60	9/28/2023 22:00	0.038	1.21	243.7	28.97	56.7	89.5
MS-08	61	9/29/2023 2:00	0.033	1.16	273.7	28.96	55.9	94.3
MS-08	61	9/29/2023 3:00	0.042	0.88	248.6	28.95	57.3	95.4

**Table A-1  
1-Hour Average H<sub>2</sub>S Community Monitoring Station Data**

Monitoring Station	Event #	Time	H <sub>2</sub> S	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			ppm	mph	°	in.Hg	(°F)	%
MS-08	61	9/29/2023 4:00	0.043	1.09	227.3	28.94	58	96
MS-08	61	9/29/2023 5:00	0.041	1.41	251.4	28.95	58.1	96.2
MS-08	61	9/29/2023 6:00	0.04	0.73	164.2	28.96	58.5	95.9
MS-08	61	9/29/2023 7:00	0.04	0.78	186.3	28.97	58.9	95.3
MS-08	61	9/29/2023 8:00	0.037	0.95	140.2	28.98	59.7	94
MS-08	61	9/29/2023 9:00	0.033	1.18	218.2	28.99	60.5	89.6
MS-08	61	9/29/2023 10:00	0.031	0.99	84	29	61.9	85.7



Table A-2

24-Hour Average PM<sub>2.5</sub> and PM<sub>10</sub> Community Monitoring Station Data

**Table A-2**  
**24-Hour Average PM2.5 Community Monitoring Station Data**

Monitoring Station	Event #	Time	PM2.5	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			µg/m <sup>3</sup>	mph	°	in.Hh	°F	%
MS-07	1	7/31/2023 0:00	2.93	1.65	226.4	29.09	81.1	51.4
MS-12	2	8/16/2023 0:00	3.41	1.01	220	29.11	82.8	45.8
MS-12	2	8/16/2023 0:00	3.41	1.01	220	29.11	82.8	45.8
MS-12	2	8/16/2023 0:00	3.41	1.01	220	29.11	82.8	45.8
MS-12	2	8/17/2023 0:00	3.03	0.9	239.5	29.06	79	48.3
MS-12	2	8/17/2023 0:00	3.03	0.9	239.5	29.06	79	48.3
MS-12	2	8/17/2023 0:00	3.03	0.9	239.5	29.06	79	48.3
MS-12	2	8/18/2023 0:00	2.93	0.68	208.6	29.05	75.4	48.2
MS-12	2	8/18/2023 0:00	2.93	0.68	208.6	29.05	75.4	48.2
MS-12	2	8/18/2023 0:00	2.93	0.68	208.6	29.05	75.4	48.2
MS-12	2	8/19/2023 0:00	2.73	1.06	185.4	29.03	73.3	51.6
MS-12	2	8/19/2023 0:00	2.73	1.06	185.4	29.03	73.3	51.6
MS-12	2	8/19/2023 0:00	2.73	1.06	185.4	29.03	73.3	51.6
MS-12	3	8/22/2023 0:00	3.35	0.45	247.7	29.15	72.1	72.7
MS-12	3	8/22/2023 0:00	3.35	0.45	247.7	29.15	72.1	72.7
MS-12	3	8/22/2023 0:00	3.35	0.45	247.7	29.15	72.1	72.7
MS-12	3	8/23/2023 0:00	3.59	0.65	207.2	29.1	75.3	65.6
MS-12	3	8/23/2023 0:00	3.59	0.65	207.2	29.1	75.3	65.6
MS-12	3	8/23/2023 0:00	3.59	0.65	207.2	29.1	75.3	65.6
MS-12	3	8/24/2023 0:00	4.81	1.15	206.8	29.13	72.6	68.6
MS-12	3	8/24/2023 0:00	4.81	1.15	206.8	29.13	72.6	68.6
MS-12	3	8/24/2023 0:00	4.81	1.15	206.8	29.13	72.6	68.6
MS-12	3	8/25/2023 0:00	3.83	0.25	193.1	29.13	72.5	63.6
MS-12	3	8/25/2023 0:00	3.83	0.25	193.1	29.13	72.5	63.6
MS-12	3	8/25/2023 0:00	3.83	0.25	193.1	29.13	72.5	63.6
MS-12	3	8/26/2023 0:00	2.52	0.87	299	29.15	73	55.8
MS-12	3	8/26/2023 0:00	2.52	0.87	299	29.15	73	55.8
MS-12	3	8/26/2023 0:00	2.52	0.87	299	29.15	73	55.8
MS-12	4	8/28/2023 0:00	3.2	0.5	282.7	29.08	80.4	46.1
MS-12	4	8/28/2023 0:00	3.2	0.5	282.7	29.08	80.4	46.1
MS-12	4	8/28/2023 0:00	3.2	0.5	282.7	29.08	80.4	46.1
MS-12	4	8/29/2023 0:00	3.67	0.92	303	29.06	79.8	48.7
MS-12	4	8/29/2023 0:00	3.67	0.92	303	29.06	79.8	48.7
MS-12	4	8/29/2023 0:00	3.67	0.92	303	29.06	79.8	48.7
MS-12	4	8/30/2023 0:00	4.56	0.67	293.3	29.05	77.1	50.2
MS-12	4	8/30/2023 0:00	4.56	0.67	293.3	29.05	77.1	50.2
MS-12	4	8/30/2023 0:00	4.56	0.67	293.3	29.05	77.1	50.2
MS-12	4	8/31/2023 0:00	6.33	0.81	167.9	29.02	74	57
MS-12	4	8/31/2023 0:00	6.33	0.81	167.9	29.02	74	57
MS-12	4	9/1/2023 0:00	7.9	1.18	182.2	29.06	71.3	66.3
MS-12	5	9/3/2023 0:00	3.84	1.52	194.1	29.2	68.2	74.8
MS-12	5	9/4/2023 0:00	4.15	0.73	202.9	29.1	66.9	72.2
MS-12	5	9/5/2023 0:00	5.33	0.82	192.6	29.1	67.6	76.4
MS-12	5	9/6/2023 0:00	5.43	1.06	178.5	29.15	68.2	74.1
MS-12	5	9/7/2023 0:00	4.76	0.32	180.8	29.16	70	66.1
MS-12	5	9/8/2023 0:00	3.18	0.35	287.4	29.22	74.5	52.1
MS-12	5	9/9/2023 0:00	3.09	0.61	227.2	29.2	78.7	52.4
MS-12	5	9/10/2023 0:00	3.42	0.94	217.8	29.14	81.5	51

**Table A-2**  
**24-Hour Average PM2.5 Community Monitoring Station Data**

MS-12	5	9/11/2023 0:00	4.09	0.23	265	29.13	76.7	59.3
MS-12	5	9/12/2023 0:00	4.28	1.53	333.2	29.13	65	75.4
MS-12	5	9/13/2023 0:00	7.54	2.03	206.8	29.11	72.7	67.6
MS-12	5	9/14/2023 0:00	8.25	1.07	221.4	29.14	66.6	77.2
MS-12	5	9/15/2023 0:00	7.61	0.93	194.6	29.16	65.4	80.8
MS-07	5	9/16/2023 0:00	2.72	2.88	264.1	29.12	64	87.9
MS-12	5	9/16/2023 0:00	10.22	0.63	217.4	29.17	65.2	84.7
MS-12	5	9/17/2023 0:00	4.61	1.49	197.1	29.18	65.3	85.3
MS-12	5	9/18/2023 0:00	4.07	1.46	195.5	29.17	67.2	73.4
MS-12	5	9/19/2023 0:00	4.17	0.52	222.3	29.12	63.6	74.5
MS-12	5	9/20/2023 0:00	6.22	1.54	183.1	29.09	63.3	77.6
MS-12	5	9/21/2023 0:00	10.04	2.11	181.2	29.12	64.6	74.9
MS-12	5	9/22/2023 0:00	10.23	0.23	196.6	29.18	63.1	75.5
MS-12	5	9/23/2023 0:00	10.76	0.21	157.3	29.19	65.5	69.8
MS-12	5	9/24/2023 0:00	9.16	0.51	311.6	29.2	64.5	69.6
MS-12	5	9/25/2023 0:00	7.2	0.28	312.9	29.24	64	66.2
MS-12	5	9/26/2023 0:00	5.07	0.96	325.3	29.2	66.7	61
MS-12	5	9/27/2023 0:00	5.12	1.06	313.6	29.11	67	59.7
MS-12	5	9/28/2023 0:00	6.36	0.56	232.7	29.07	64.9	71.4
MS-12	5	9/29/2023 0:00	10.37	0.87	180.8	29.06	62.1	84.1
MS-12	5	9/30/2023 0:00	3.43	2.03	167.1	29.04	61.1	79.8

**Table A-2**  
**24-Hour Average PM10 Community Monitoring Station Data**

Monitoring Station	Event #	Time	PM10	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			µg/m <sup>3</sup>	mph	°	in.Hh	°F	%
MS-10	1	7/5/2023 0:00	2.78	2.6	223.3	29.26	68.9	63.1
MS-07	1	7/6/2023 0:00	2.6	3.35	270.5	29.05	66.5	63.8
MS-08	1	7/6/2023 0:00	3.53	2.18	239.1	29.02	66.9	61.5
MS-07	1	7/7/2023 0:00	2.5	3.38	273.2	29	64.9	70.3
MS-08	1	7/7/2023 0:00	2.55	2.2	243.6	28.96	65.4	68.1
MS-07	2	7/10/2023 0:00	2.96	1.88	287.4	29.06	73.1	54.6
MS-07	2	7/11/2023 0:00	3.91	1.95	17.9	29.12	68.6	54.5
MS-08	2	7/11/2023 0:00	2.69	1.62	250.7	29.08	72.2	46.4
MS-07	3	7/13/2023 0:00	4.02	3.34	286.2	29.1	77.3	32.1
MS-07	3	7/14/2023 0:00	4.72	3.48	294.5	29.03	78.1	37.2
MS-07	3	7/15/2023 0:00	4.58	2.34	288.1	29.01	80.5	44.7
MS-07	3	7/16/2023 0:00	3.79	2.2	266.8	29.05	79.6	53.7
MS-07	3	7/17/2023 0:00	3.8	2.6	268.4	29.07	80.6	53.4
MS-07	3	7/18/2023 0:00	4.31	2.41	281.2	29.11	80.1	49.3
MS-07	3	7/19/2023 0:00	2.6	2.34	279.3	29.13	80.8	39.2
MS-07	3	7/20/2023 0:00	3.08	2.8	297	29.11	81.9	37.3
MS-07	3	7/21/2023 0:00	3.94	2.57	289.1	29.06	80.6	41.7
MS-07	3	7/22/2023 0:00	3.49	2.87	291.9	29.01	80	43.7
MS-08	3	7/22/2023 0:00	2.9	1.89	243.8	28.97	79.6	44.9
MS-07	3	7/23/2023 0:00	2.87	1.23	170.3	29.07	78	56.9
MS-07	3	7/24/2023 0:00	4.67	1.85	268	29.13	80.1	59
MS-08	3	7/24/2023 0:00	2.55	1.61	250.6	29.09	80.8	56.7
MS-07	3	7/25/2023 0:00	2.88	3.09	289	29.12	83.6	48.4
MS-07	3	7/26/2023 0:00	3.12	2.87	287.5	29.09	82.5	46.3
MS-07	3	7/27/2023 0:00	3.2	2.61	288.9	29.06	82.3	44.1
MS-08	3	7/27/2023 0:00	2.67	2.3	245.7	29.02	81	46.6
MS-07	3	7/28/2023 0:00	4.15	3.17	279.3	29.07	79.4	51.6
MS-08	3	7/28/2023 0:00	2.9	2.09	236.7	29.03	79.2	51.6
MS-07	3	7/29/2023 0:00	3.54	2.83	278.5	29.09	81.1	51.7
MS-08	3	7/29/2023 0:00	2.73	1.95	244	29.05	80.8	52.1
MS-07	3	7/30/2023 0:00	3.63	2.99	276.1	29.05	83.1	43.6
MS-08	3	7/30/2023 0:00	2.52	2.25	235	29.01	81.5	44.8
MS-07	3	7/31/2023 0:00	5.41	1.65	226.4	29.09	81.1	51.4
MS-11	3	7/31/2023 0:00	2.87	1.52	145.1	28.83	81.8	49.1
MS-10	3	7/31/2023 0:00	2.9	1.55	225.3	29.22	81.2	54.8
MS-08	3	7/31/2023 0:00	4.32	1.38	264.4	29.04	80.8	50.4
MS-07	3	8/1/2023 0:00	3.68	2.79	255.6	29.14	77.8	57.7
MS-07	3	8/1/2023 0:00	3.68	2.79	255.6	29.14	77.8	57.7
MS-08	3	8/1/2023 0:00	2.54	1.84	247.2	29.09	78.4	55.6
MS-07	3	8/2/2023 0:00	3.1	3.26	271.9	29.14	74.4	52.3
MS-07	3	8/2/2023 0:00	3.1	3.26	271.9	29.14	74.4	52.3
MS-07	3	8/2/2023 0:00	3.1	3.26	271.9	29.14	74.4	52.3
MS-07	3	8/3/2023 0:00	3.6	3.18	281.5	29.12	72.6	48.7
MS-07	3	8/3/2023 0:00	3.6	3.18	281.5	29.12	72.6	48.7
MS-07	3	8/3/2023 0:00	3.6	3.18	281.5	29.12	72.6	48.7
MS-07	3	8/4/2023 0:00	3.69	3.14	287.3	29.06	72.9	54.1
MS-07	3	8/4/2023 0:00	3.69	3.14	287.3	29.06	72.9	54.1



**Table A-2**  
**24-Hour Average PM10 Community Monitoring Station Data**

Monitoring Station	Event #	Time	PM10	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			µg/m <sup>3</sup>	mph	°	in.Hh	°F	%
MS-07	3	8/4/2023 0:00	3.69	3.14	287.3	29.06	72.9	54.1
MS-08	3	8/4/2023 0:00	2.6	2.18	235.8	29.02	71.9	55.6
MS-07	3	8/5/2023 0:00	2.78	2.65	280.9	29.03	77.8	48.7
MS-07	3	8/5/2023 0:00	2.78	2.65	280.9	29.03	77.8	48.7
MS-10	3	8/5/2023 0:00	5.05	2.51	224.9	29.17	77.5	53.9
MS-07	4	8/7/2023 0:00	3.11	1.72	201.1	29.16	75.2	48.6
MS-07	4	8/7/2023 0:00	3.11	1.72	201.1	29.16	75.2	48.6
MS-07	4	8/8/2023 0:00	2.95	1.49	167.4	29.15	72.7	53.8
MS-07	4	8/8/2023 0:00	2.95	1.49	167.4	29.15	72.7	53.8
MS-07	4	8/8/2023 0:00	2.95	1.49	167.4	29.15	72.7	53.8
MS-07	4	8/9/2023 0:00	3.01	2.5	229.3	29.1	71.8	68.6
MS-07	4	8/9/2023 0:00	3.01	2.5	229.3	29.1	71.8	68.6
MS-07	5	8/11/2023 0:00	2.65	3.66	261.8	29.12	69	75.8
MS-10	5	8/11/2023 0:00	3.2	2.91	229.5	29.26	70.8	73.5
MS-12	6	8/15/2023 0:00	2.82	0.99	221.2	29.15	79.3	54.5
MS-12	6	8/15/2023 0:00	2.82	0.99	221.2	29.15	79.3	54.5
MS-07	6	8/16/2023 0:00	2.5	2.89	273.1	29.06	82.1	47.3
MS-12	6	8/16/2023 0:00	7.86	1.01	220	29.11	82.8	45.8
MS-12	6	8/16/2023 0:00	7.86	1.01	220	29.11	82.8	45.8
MS-12	6	8/16/2023 0:00	7.86	1.01	220	29.11	82.8	45.8
MS-12	6	8/17/2023 0:00	6.71	0.9	239.5	29.06	79	48.3
MS-12	6	8/17/2023 0:00	6.71	0.9	239.5	29.06	79	48.3
MS-12	6	8/17/2023 0:00	6.71	0.9	239.5	29.06	79	48.3
MS-12	6	8/18/2023 0:00	7.56	0.68	208.6	29.05	75.4	48.2
MS-12	6	8/18/2023 0:00	7.56	0.68	208.6	29.05	75.4	48.2
MS-12	6	8/18/2023 0:00	7.56	0.68	208.6	29.05	75.4	48.2
MS-12	6	8/19/2023 0:00	6.47	1.06	185.4	29.03	73.3	51.6
MS-12	6	8/19/2023 0:00	6.47	1.06	185.4	29.03	73.3	51.6
MS-12	6	8/19/2023 0:00	6.47	1.06	185.4	29.03	73.3	51.6
MS-12	6	8/20/2023 0:00	2.72	1.4	296.1	28.9	69.9	83.9
MS-12	6	8/20/2023 0:00	2.72	1.4	296.1	28.9	69.9	83.9
MS-12	6	8/20/2023 0:00	2.72	1.4	296.1	28.9	69.9	83.9
MS-12	6	8/21/2023 0:00	3.37	0.73	29.3	29.18	67.9	79.4
MS-12	6	8/21/2023 0:00	3.37	0.73	29.3	29.18	67.9	79.4
MS-12	6	8/21/2023 0:00	3.37	0.73	29.3	29.18	67.9	79.4
MS-12	6	8/22/2023 0:00	6.24	0.45	247.7	29.15	72.1	72.7
MS-12	6	8/22/2023 0:00	6.24	0.45	247.7	29.15	72.1	72.7
MS-12	6	8/22/2023 0:00	6.24	0.45	247.7	29.15	72.1	72.7
MS-12	6	8/23/2023 0:00	6.35	0.65	207.2	29.1	75.3	65.6
MS-12	6	8/23/2023 0:00	6.35	0.65	207.2	29.1	75.3	65.6
MS-12	6	8/23/2023 0:00	6.35	0.65	207.2	29.1	75.3	65.6
MS-12	6	8/24/2023 0:00	7.29	1.15	206.8	29.13	72.6	68.6
MS-12	6	8/24/2023 0:00	7.29	1.15	206.8	29.13	72.6	68.6
MS-12	6	8/24/2023 0:00	7.29	1.15	206.8	29.13	72.6	68.6
MS-12	6	8/25/2023 0:00	8.32	0.25	193.1	29.13	72.5	63.6
MS-12	6	8/25/2023 0:00	8.32	0.25	193.1	29.13	72.5	63.6
MS-12	6	8/25/2023 0:00	8.32	0.25	193.1	29.13	72.5	63.6

**Table A-2**  
**24-Hour Average PM10 Community Monitoring Station Data**

Monitoring Station	Event #	Time	PM10	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			µg/m <sup>3</sup>	mph	°	in.Hh	°F	%
MS-12	6	8/26/2023 0:00	4.72	0.87	299	29.15	73	55.8
MS-12	6	8/26/2023 0:00	4.72	0.87	299	29.15	73	55.8
MS-12	6	8/26/2023 0:00	4.72	0.87	299	29.15	73	55.8
MS-12	6	8/27/2023 0:00	4.46	0.89	301.9	29.12	77	47.1
MS-12	6	8/27/2023 0:00	4.46	0.89	301.9	29.12	77	47.1
MS-12	6	8/27/2023 0:00	4.46	0.89	301.9	29.12	77	47.1
MS-12	6	8/28/2023 0:00	6.77	0.5	282.7	29.08	80.4	46.1
MS-12	6	8/28/2023 0:00	6.77	0.5	282.7	29.08	80.4	46.1
MS-12	6	8/28/2023 0:00	6.77	0.5	282.7	29.08	80.4	46.1
MS-12	6	8/29/2023 0:00	6.7	0.92	303	29.06	79.8	48.7
MS-12	6	8/29/2023 0:00	6.7	0.92	303	29.06	79.8	48.7
MS-12	6	8/29/2023 0:00	6.7	0.92	303	29.06	79.8	48.7
MS-12	6	8/30/2023 0:00	8.62	0.67	293.3	29.05	77.1	50.2
MS-12	6	8/30/2023 0:00	8.62	0.67	293.3	29.05	77.1	50.2
MS-12	6	8/30/2023 0:00	8.62	0.67	293.3	29.05	77.1	50.2
MS-12	6	8/31/2023 0:00	9.28	0.81	167.9	29.02	74	57
MS-12	6	8/31/2023 0:00	9.28	0.81	167.9	29.02	74	57
MS-07	6	9/1/2023 0:00	2.93	2.48	245.5	29.02	70.3	69
MS-08	6	9/1/2023 0:00	2.64	1.69	253.4	28.97	70.7	66.2
MS-12	6	9/1/2023 0:00	11.83	1.18	182.2	29.06	71.3	66.3
MS-12	7	9/3/2023 0:00	4.64	1.52	194.1	29.2	68.2	74.8
MS-12	7	9/4/2023 0:00	5.49	0.73	202.9	29.1	66.9	72.2
MS-12	7	9/5/2023 0:00	7.09	0.82	192.6	29.1	67.6	76.4
MS-12	7	9/6/2023 0:00	7.11	1.06	178.5	29.15	68.2	74.1
MS-12	7	9/7/2023 0:00	7.67	0.32	180.8	29.16	70	66.1
MS-12	7	9/8/2023 0:00	5.68	0.35	287.4	29.22	74.5	52.1
MS-12	7	9/9/2023 0:00	5.38	0.61	227.2	29.2	78.7	52.4
MS-12	7	9/10/2023 0:00	5.66	0.94	217.8	29.14	81.5	51
MS-12	7	9/11/2023 0:00	9.92	0.23	265	29.13	76.7	59.3
MS-11	7	9/12/2023 0:00	3.51	1.62	155.5	28.8	73.3	59.2
MS-12	7	9/12/2023 0:00	6.21	1.53	333.2	29.13	65	75.4
MS-07	7	9/13/2023 0:00	2.82	3.05	274.4	29.08	66.2	76.8
MS-12	7	9/13/2023 0:00	9.84	2.03	206.8	29.11	72.7	67.6
MS-07	7	9/14/2023 0:00	2.55	3.2	280.6	29.09	65.5	80.5
MS-12	7	9/14/2023 0:00	10.14	1.07	221.4	29.14	66.6	77.2
MS-12	7	9/15/2023 0:00	9	0.93	194.6	29.16	65.4	80.8
MS-07	7	9/16/2023 0:00	2.86	2.88	264.1	29.12	64	87.9
MS-08	7	9/16/2023 0:00	2.68	1.56	253.2	29.08	64.5	85.3
MS-12	7	9/16/2023 0:00	11.21	0.63	217.4	29.17	65.2	84.7
MS-12	7	9/17/2023 0:00	5.22	1.49	197.1	29.18	65.3	85.3
MS-12	7	9/18/2023 0:00	5.6	1.46	195.5	29.17	67.2	73.4
MS-12	7	9/19/2023 0:00	6.5	0.52	222.3	29.12	63.6	74.5
MS-12	7	9/20/2023 0:00	8.3	1.54	183.1	29.09	63.3	77.6
MS-07	7	9/21/2023 0:00	2.59	4.37	241.7	29.07	63.4	77.5
MS-12	7	9/21/2023 0:00	11.38	2.11	181.2	29.12	64.6	74.9
MS-07	7	9/22/2023 0:00	2.79	1.22	281.2	29.12	62.7	77
MS-12	7	9/22/2023 0:00	12.04	0.23	196.6	29.18	63.1	75.5

**Table A-2**  
**24-Hour Average PM10 Community Monitoring Station Data**

Monitoring Station	Event #	Time	PM10	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			µg/m <sup>3</sup>	mph	°	in.Hh	°F	%
MS-07	7	9/23/2023 0:00	2.79	1.45	283.5	29.14	65.2	71.4
MS-12	7	9/23/2023 0:00	14.03	0.21	157.3	29.19	65.5	69.8
MS-12	7	9/24/2023 0:00	10.72	0.51	311.6	29.2	64.5	69.6
MS-12	7	9/25/2023 0:00	9.72	0.28	312.9	29.24	64	66.2
MS-12	7	9/26/2023 0:00	8.77	0.96	325.3	29.2	66.7	61
MS-07	7	9/27/2023 0:00	2.54	2.53	318	29.05	68.9	53.7
MS-12	7	9/27/2023 0:00	9.85	1.06	313.6	29.11	67	59.7
MS-07	7	9/28/2023 0:00	2.61	3.11	282.3	29	65.1	70.5
MS-12	7	9/28/2023 0:00	10.36	0.56	232.7	29.07	64.9	71.4
MS-07	7	9/29/2023 0:00	2.71	3	259.1	29	61.1	86.8
MS-08	7	9/29/2023 0:00	2.71	1.7	246.6	28.96	61.5	83.7
MS-12	7	9/29/2023 0:00	11.66	0.87	180.8	29.06	62.1	84.1
MS-12	7	9/30/2023 0:00	4.28	2.03	167.1	29.04	61.1	79.8



Table A-3


2-Hour Average PM<sub>2.5</sub> and PM<sub>10</sub> Community Monitoring Station Data

**Table A-3  
2-Hour Average PM2.5 Community Monitoring Station Data**

Monitoring Station	Event #	Time	PM2.5	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			µg/m <sup>3</sup>	mph	°	in.Hh	°F	%
No recorded off-site exceedance for this parameter								

**Table A-3**  
**2-Hour Average PM10 Community Monitoring Station Data**

Monitoring Station	Event #	Time	PM10	Wind Speed	Wind Direction	Pressure	Air Temperature	Air Relative Humidity
			$\mu\text{g}/\text{m}^3$	mph	°	in.Hh	°F	%
MS-12	1	8/18/2023 8:00	25.91	1.99	151.8	29.1	75.2	42.7
MS-12	2	9/11/2023 18:00	30.93	1.73	298.6	29.1	79.6	50.9
MS-11	3	9/12/2023 10:00	27.7	3.22	82.7	28.82	82.3	42.7




## Appendix B

### Third Quarter 2023 Community Air Monitoring Station Monitoring Data (1-Hour Averages)

Since the continuous monitoring data presented in this report includes only exceedance events, the complete 1-hour data set is included as a separate, linked attachment. The one-hour continuous monitoring data for the off-site air monitoring stations (MS-06 through MS-12) referenced in this quarterly report can be accessed on the Los Angeles Department of Regional Planning website for the Chiquita Canyon Landfill Community Advisory Committee:

[Documents - LA County Planning](#)





## Appendix C

# Third Quarter 2023 Community Air Monitoring Station Reporting Thresholds




Table C-1  
Discrete Sampling Reporting Thresholds

**Table C-1**  
**Discrete Sampling Reporting Thresholds**

Compound <sup>1</sup>	CAS No.	REL in $\mu\text{g}/\text{m}^3$ <sup>2</sup>
Benzene	71-43-2	27
Benzyl chloride	100-44-7	240
Chlorobenzene	108-90-7	1000
1,2-Dibromoethane	106-93-4	0.8
Dichlorobenzenes <sup>3</sup>	106-46-7	800
1,1-Dichloroethane	75-34-3	N/A
1,2-Dichloroethane	106-06-2	400
1,1-Dichloroethene	75-35-4	70
Dichloromethane	75-09-2	14,000
Hydrogen Sulfide	7783-06-4	42 <sup>4</sup>
Tetrachloroethene	128-18-4	20,000
Tetrachloromethane	56-23-5	1,900
Toluene	108-88-3	5,000
1,1,1-Trichloroethane	71-55-6	68,000
Trichloroethene	79-01-6	600
Vinyl chloride	75-01-4	180,000
Xylenes	1330-20-7	22,000

**Notes**

<sup>1</sup> List of compounds from SCAQMD Rule 1150.1, Table 1 Toxic Air Contaminant List

<sup>2</sup> RELs based on OEHHA REL for Acute Hazard Index Target Organ Systems (Table 6.1 from the February 2015 Air Toxics Hot Spots Program Guidance Manual).

<sup>3</sup> Includes meta, para, and ortho isomers. Para CAS used for REL.

<sup>4</sup> Based on CAAQS

**Acronyms**

CAAQS - California Ambient Air Quality Standards


CAS - Chemical Abstracts Service Chemical Registry Number

OEHHA - California Office of Health Hazard Assessment

REL - Reference Exposure Levels

SCAQMD - South Coast Air Quality Management District

$\mu\text{g}/\text{m}^3$  - micrograms per cubic meter



## Appendix D

### Third Quarter 2023 Discrete Sampling Lab Reports

Figure 1  
Chiquita Canyon CAMP Map of Monitoring Stations



LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Ambient Air Tedlar Bag Samples

Report Date: July 25, 2023  
Client: SCS Engineers  
Project Name: Chiquita Canyon (Off-site)  
Project No.: 01204123.19  
Date Received: July 6, 2023  
Date Analyzed: July 7-8, 2023

AtmAA Lab No.:	21873-14	21873-15	21873-16
Sample I.D.:	MS-7	MS-8	MS-12
Bag I.D.:	MS-7	MS-8	MS-12
Components	(Concentration in ppbv)		
Hydrogen sulfide	<30	<30	<30
Benzene	0.82	0.68	0.73
Benzyl chloride	<0.15	<0.15	<0.15
Chlorobenzene	<0.15	<0.15	<0.15
Dichlorobenzenes*	<0.30	<0.30	<0.30
1,1-dichloroethane	<0.15	<0.15	<0.15
1,2-dichloroethane	<0.15	<0.15	<0.15
1,1-dichloroethylene	<0.15	<0.15	<0.15
Dichloromethane	<0.30	<0.30	<0.30
1,2-dibromoethane	<0.10	<0.10	<0.10
Perchloroethylene	1.02	0.43	0.73
Carbon tetrachloride	<0.15	<0.15	<0.15
Toluene	0.47	0.76	0.83
1,1,1-trichloroethane	<0.10	<0.10	<0.10
Trichloroethene	<0.10	<0.10	<0.10
Chloroform	<0.10	<0.10	<0.10
Vinyl chloride	<0.10	<0.10	<0.10
m+p-xylenes	0.25	0.24	0.31
o-xylene	<0.10	<0.10	0.14

Toxic air contaminants (TAC) compounds were analyzed by GC/MS, EPA TO-15.

Hydrogen sulfide was analyzed by SCD/GC, SCAQMD 307.91.

\* total amount containing meta, para, and ortho isomers

Brian W. Fung  
Laboratory Director





LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Ambient Air Tedlar Bag Samples

Report Date: September 1, 2023  
Client: SCS Engineers  
Project Name: Chiquita Canyon (Off-site)  
Project No.: 01204123.19  
Date Received: August 9, 2023  
Date Analyzed: August 9-11, 2023

AtmAA Lab No.:	22213-35	22213-36	22213-37
Sample I.D.:	MS-6	MS-9	MS-10
Bag I.D.:	MS-6	MS-9	MS-10
Components	(Concentration in ppbv)		
Hydrogen sulfide	<25	<25	<25
Benzene	0.50	0.30	0.49
Benzyl chloride	<0.15	<0.15	<0.15
Chlorobenzene	<0.15	<0.15	<0.15
Dichlorobenzenes*	<0.30	<0.30	<0.30
1,1-dichloroethane	<0.15	<0.15	<0.15
1,2-dichloroethane	<0.15	<0.15	<0.15
1,1-dichloroethylene	<0.15	<0.15	<0.15
Dichloromethane	<0.30	<0.30	<0.30
1,2-dibromoethane	<0.10	<0.10	<0.10
Perchloroethylene	<0.10	<0.10	0.10
Carbon tetrachloride	<0.15	<0.15	<0.15
Toluene	0.48	0.36	0.50
1,1,1-trichloroethane	<0.10	<0.10	<0.10
Trichloroethene	<0.10	<0.10	<0.10
Chloroform	<0.10	<0.10	<0.10
Vinyl chloride	<0.10	<0.10	<0.10
m+p-xylenes	0.32	0.17	0.22
o-xylene	0.13	<0.10	<0.10

Toxic air contaminants (TAC) compounds were analyzed by GC/MS, EPA TO-15.

Hydrogen sulfide was analyzed by SCD/GC, SCAQMD 307.91.

\* total amount containing meta, para, and ortho isomers

Brian W. Fung  
Laboratory Director



### CHAIN OF CUSTODY RECORD

SCS FIELD SERVICES				TOTAL NUMBER OF SAMPLES: <b>3</b>			ANALYSES REQUESTED							LAB USE ONLY																																	
4200 Jurupa Street, Suite 320 Ontario, CA 91761 Office 909-373-2508				PAGE 1 OF 1			<table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr><td style="width: 10%;"> </td><td style="width: 10%;"> </td><td style="width: 10%;"> </td><td style="width: 10%;"> </td><td style="width: 10%;"> </td><td style="width: 10%;"> </td><td style="width: 10%;"> </td><td style="width: 10%;"> </td><td style="width: 10%;"> </td><td style="width: 10%;"> </td><td style="width: 10%;"> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																																								
TURNAROUND TIME REQUIRED:																																															
<input checked="" type="checkbox"/> Std. <input type="checkbox"/> 3-Day <input type="checkbox"/> 24-Hr. <input type="checkbox"/> Other																																															
PROJECT NUMBER: <b>020423.19</b>				PROJECT MANAGER: <b>STACE MARKOTTIC OR RAY HOFF</b>			To: 15      307.91  AtmAA #																																								
PROJECT NAME: <b>CHQUITA CANYON</b>				W.O. / S.O. #: <b>[Signature]</b>																																											
PROJECT LOCATION: <b>CHQUITA CANYON LANDFILL</b>																																															
SAMPLER NAME AND SIGNATURE: <b>ADRIAN GASPAREC</b>																																															
I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS																																									
③	MS.6	AIR	8/9/2023 10:25	1 LITER TADUR	NONE	-	x	x										20213-35																													
④	MS.9	AIR	8/9/2023 11:40	1 LITER TADUR	NONE	-	x	x										-36																													
⑤	MS.10	AIR	8/9/2023 11:05	1 LITER TADUR	NONE	-	x	x										-37																													

NOTES:						SAMPLE CONDITION UPON RECEIPT:					
COMPANY: <b>[Signature]</b>	TIME: <b>12:35</b>	COMPANY:	TIME:	COMPANY:	TIME: <b>12:38</b>						

QUALITY ASSURANCE SUMMARY  
(Repeat Analysis)

Project Location: Chiquita Canyon Camp Off site  
 Date Received: September 12, 2023  
 Date Analyzed: September 12, 2023

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
<i>(Concentration in ppmv)</i>					
Methane	MS-12	5.60	5.84	5.72	4.2

*Three Tedlar bag samples, laboratory numbers 22553-(11-13), were analyzed for methane. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The % RPD for 1 repeat measurement from 3 Tedlar bag samples is 4.2%.*





LABORATORY ANALYSIS REPORT

specialized air assessment laboratory  
atmaa.com

TO-15 Component Analysis in Tedlar Bag Sample, by GC/MS

Report Date: September 15, 2023  
Client: SCS Field Services  
Project Location: Chiquita Canyon Camp Off site  
Project No.: 01204123.19  
Date Received: September 12, 2023  
Date Analyzed: September 14, 2023

AtmAA Lab No.:	22553-11	22553-12	22553-13
Sample ID:	MS-8	MS-11	MS-12
Components	<i>(Concentrations in ppbv)</i>		
Freon 12	0.40	0.33	0.48
Chloromethane	0.45	0.38	0.53
Freon 114	<0.15	<0.15	<0.15
Vinyl Chloride	<0.20	<0.20	<0.20
1,3-Butadiene	<0.30	<0.30	<0.30
Bromomethane	<0.30	<0.30	<0.30
Chloroethane	<0.25	<0.25	<0.25
Acetone	14.7	10.6	19.6
Freon 11	0.21	<0.20	0.29
Isopropyl Alcohol	36.6	8.23	17.8
1,1-Dichloroethene	<0.30	<0.30	<0.30
Methylene Chloride	<0.30	<0.30	<0.30
Carbon Disulfide	0.43	0.36	0.39
Freon 113	<0.15	<0.15	<0.15
trans-1,2-Dichloroethene	<0.30	<0.30	<0.30
1,1-Dichloroethane	<0.30	<0.30	<0.30
MTBE	<0.30	<0.30	<0.30
Vinyl Acetate	<0.30	<0.30	<0.30
2-Butanone	0.99	0.48	1.44
cis-1,2-Dichloroethene	<0.30	<0.30	<0.30
n-Hexane	0.36	0.24	0.40
Chloroform	<0.20	<0.20	<0.20
Ethyl Acetate	<0.30	<0.30	<0.30
Tetrahydrofuran	0.45	<0.20	0.87
1,2-Dichloroethane	<0.30	<0.30	<0.30
1,1,1-Trichloroethane	<0.20	<0.20	<0.20
Benzene	0.43	0.23	0.80
Carbon Tetrachloride	<0.20	<0.20	<0.20
Cyclohexane	<0.30	<0.30	<0.30
1,2-Dichloropropane	<0.30	<0.30	<0.30
Bromodichloromethane	<0.30	<0.30	<0.30
Trichloroethene	<0.20	<0.20	<0.20
1,4-Dioxane	<0.30	<0.30	<0.30
n-Heptane	<0.30	<0.30	<0.30
cis-1,3-Dichloropropene	<0.30	<0.30	<0.30
4-Methyl-2-pentanone	<0.30	<0.30	<0.30
trans-1,3-Dichloropropene	<0.30	<0.30	<0.30
1,1-2-Trichloroethane	<0.30	<0.30	<0.30
Toluene	0.47	0.30	0.56
2-Hexanone	<0.30	<0.30	<0.30
Dibromochloromethane	<0.25	<0.25	<0.25
1,2-Dibromoethane	<0.15	<0.15	<0.15
Tetrachloroethene	0.72	0.58	0.77
Chlorobenzene	<0.25	<0.25	<0.25
Ethylbenzene	<0.20	<0.20	<0.20
m,p-Xylene	<0.20	<0.20	0.23
Bromoform	<0.15	<0.15	<0.15
Styrene	<0.25	<0.25	<0.25
1,1,2,2-Tetrachloroethane	<0.25	<0.25	<0.25
o-Xylene	<0.20	<0.20	<0.20
Benzyl Chloride	<0.30	<0.30	<0.30
4-Ethyl Toluene	<0.30	<0.30	<0.30
1,3,5-Trimethyl Benzene	<0.30	<0.30	<0.30
1,2,4-Trimethyl Benzene	<0.30	<0.30	<0.30
1,3-Dichlorobenzene	<0.20	<0.20	<0.20
1,4-Dichlorobenzene	<0.20	<0.20	<0.20
1,2-Dichlorobenzene	<0.20	<0.20	<0.20
1,2,4-Trichlorobenzene	<0.60	<0.60	<0.60
Hexachlorobutadiene	<0.40	<0.40	<0.40

*B. Fung*  
Brian W. Fung  
Laboratory Director



**LABORATORY ANALYSIS REPORT**

Hydrogen Sulfide and Reduced Sulfur Compounds  
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: September 15, 2023  
Client: SCS Field Services  
Project Location: Chiquita Canyon Camp Off site  
Project No.: 01204123.19  
Date Received: September 12, 2023  
Date Analyzed: September 12, 2023

**ANALYSIS DESCRIPTION**

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22553-11	22553-12	22553-13
Sample I.D.:	MS-8	MS-11	MS-12

<u>Components</u>	<i>(Concentration in ppbv)</i>		
Hydrogen sulfide	<25	<25	<25
Carbonyl sulfide	<40	<40	<40
Methyl mercaptan	<25	<25	<25
Ethyl mercaptan	<25	<25	<25
Dimethyl sulfide	<25	<25	<25
Carbon disulfide	<25	<25	<25
i-Propyl mercaptan	<25	<25	<25
t-Butyl mercaptan	<25	<25	<25
n-Propyl mercaptan	<25	<25	<25
s-Butyl mercaptan	<25	<25	<25
i-Butyl mercaptan	<25	<25	<25
Dimethyl disulfide	<25	<25	<25
Tetrahydrothiophene	<25	<25	<25
Unidentified sulfurs	<25	<25	<25

*(Concentration in ppbv, as H<sub>2</sub>S)*

Total Sulfur	ND	ND	ND
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ND - Not Detected

  
\_\_\_\_\_  
Brian W. Fung  
Laboratory Director

QUALITY ASSURANCE SUMMARY  
(Repeat Analyses)

Project Location: Chiquita Canyon Camp Off site  
 Date Received: September 12, 2023  
 Date Analyzed: September 12, 2023

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppbv)			
Hydrogen sulfide	MS-8	<25	<25	---	---
	MS-11	<25	<25	---	---
	MS-12	<25	<25	---	---
Carbonyl sulfide	MS-8	<40	<40	---	---
	MS-11	<40	<40	---	---
	MS-12	<40	<40	---	---
Methyl mercaptan	MS-8	<25	<25	---	---
	MS-11	<25	<25	---	---
	MS-12	<25	<25	---	---
Ethyl mercaptan	MS-8	<25	<25	---	---
	MS-11	<25	<25	---	---
	MS-12	<25	<25	---	---
Dimethyl sulfide	MS-8	<25	<25	---	---
	MS-11	<25	<25	---	---
	MS-12	<25	<25	---	---
Carbon disulfide	MS-8	<25	<25	---	---
	MS-11	<25	<25	---	---
	MS-12	<25	<25	---	---
i-Propyl mercaptan	MS-8	<25	<25	---	---
	MS-11	<25	<25	---	---
	MS-12	<25	<25	---	---
t-Butyl mercaptan	MS-8	<25	<25	---	---
	MS-11	<25	<25	---	---
	MS-12	<25	<25	---	---
n-Propyl mercaptan	MS-8	<25	<25	---	---
	MS-11	<25	<25	---	---
	MS-12	<25	<25	---	---
s-Butyl mercaptan	MS-8	<25	<25	---	---
	MS-11	<25	<25	---	---
	MS-12	<25	<25	---	---
i-Butyl mercaptan	MS-8	<25	<25	---	---
	MS-11	<25	<25	---	---
	MS-12	<25	<25	---	---



QUALITY ASSURANCE SUMMARY  
 (Repeat Analyses)  
 (continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppbv)			
Dimethyl disulfide	MS-8	<25	<25	---	---
	MS-11	<25	<25	---	---
	MS-12	<25	<25	---	---
Tetrahydrothiophene	MS-8	<25	<25	---	---
	MS-11	<25	<25	---	---
	MS-12	<25	<25	---	---
Unidentified sulfurs	MS-8	<25	<25	---	---
	MS-11	<25	<25	---	---
	MS-12	<25	<25	---	---

*Three Tedlar bag samples, laboratory numbers 22553-(11-13), were analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD".*



# CHAIN OF CUSTODY RECORD

SCS FIELD SERVICES				TOTAL NUMBER OF SAMPLES: <b>3</b>			ANALYSES REQUESTED						LAB USE ONLY				
4200 Jurupa Street, Suite 320 Ontario, CA 91761 Office 909-373-2508				PAGE <b>1</b> OF <b>1</b>													
				TURNAROUND TIME REQUIRED: <input type="checkbox"/> Std. <input checked="" type="checkbox"/> 3-Day <input type="checkbox"/> 24-Hr. <input type="checkbox"/> Other													
PROJECT NUMBER: <b>01204123.19</b>				PROJECT MANAGER: <b>RAY HUFF</b>			<div style="display: flex; justify-content: space-around; font-size: 2em;"> <span>To: 15</span> <span>307.91</span> </div>										
PROJECT NAME: <b>CHQUITA CANYON CAMP (OT SITE)</b>				W.O. / S.O. #:													
PROJECT LOCATION: <b>CHQUITA CANYON LANDFILL</b>				SAMPLER NAME AND SIGNATURE: <b>ADRIAN GASPARAC</b>													
I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	<span style="font-size: 1.5em;">AtmAA #</span> <span style="font-size: 1.5em;">22553-11</span> <span style="font-size: 1.5em;">-12</span> <span style="font-size: 1.5em;">-13</span>										
③	MS. 8	AIR	9/12/23 10:00	1 L. TADLAR	None	-	X	X									
④	MS. 11	AIR	9/12/23 10:30	1 L. TADLAR	None	-	X	X									
⑤	MS. 12	AIR	9/12/23 9:30	1 L. TADLAR	None	-	X	X									
NOTES:							SAMPLE CONDITION UPON RECEIPT:										
RELINQUISHED BY: COMPANY: <b>SCS-B</b>				DATE: <b>9/12/23</b> TIME: <b>11:40</b>		ACCEPTED BY: COMPANY:		DATE: <b>9/12/23</b> TIME: <b>11:40</b>		RELINQUISHED BY: COMPANY: <b>SCS-B</b>		DATE: <b>9/12/23</b> TIME: <b>11:40</b>		ACCEPTED BY: COMPANY: <b>SCS-B</b>		DATE: <b>9/12/23</b> TIME: <b>11:40</b>	