

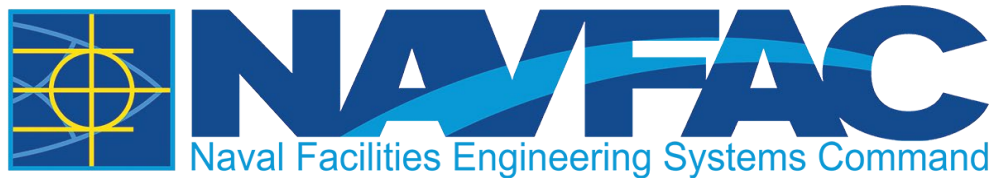
Naval Facilities Engineering Systems Command Southwest
BRAC PMO West
San Diego, CA

Interim

Air Sampling Summary Report No. 011

Data Date Range: August 24, 2020 through July 1, 2022
Parcel G

Former Hunters Point Naval Shipyard, San Francisco, CA
September 2022



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DCN: APTM-0006-5065-0038

Prepared for:

Department of the Navy
Naval Facilities Engineering Systems Command Southwest
BRAC PMO West
33000 Nixie Way, Bldg. 50, Suite 207
San Diego, CA 92147

Prepared by:

Aptim Federal Services, LLC
4005 Port Chicago Highway, Suite 200
Concord, CA 94520
Contract Number: N62473-17-D-0006; Task Order: N6247318F5065

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Acronyms and Abbreviations

μCi/mL	microcurie per milliliter
μg/m ³	microgram per cubic meter
²³² Th	thorium-232
APTIM	Aptim Federal Services, LLC
BAAQMD	Bay Area Air Quality Management District
CSAAQS	California State ambient air quality standard
DMP	Final, Revision 1, Dust Management and Air Monitoring Plan
DTSC	California Department of Toxic Substances Control
EPA	U.S. Environmental Protection Agency
HERO	Human and Ecological Risk Office
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
mph	mile per hour
MS	matrix spike
MSD	matrix spike duplicate
NIST	National Institute of Standards and Technology
NORM	naturally occurring radioactive material
PM2.5	particulate matter larger than 2.5 microns in size
PM10	particulate matter larger than 10 microns in size
RER	relative error ratio
ROC	radionuclide of concern
RPD	relative percent difference
SDG	sample delivery group
TSP	total suspended particulates

1.0 Introduction

Aptim Federal Services, LLC (APTIM) is providing environmental remediation services to the U.S. Department of the Navy under the Radiological Environmental Multiple Award Contract, Contract Number N62473-17-D-0006, Contract Task Order N6247318F5065. APTIM is performing air sampling of fugitive dust emissions in support of Parcel G removal activities in accordance with the Final, Revision 1, Dust Management and Air Monitoring Plan (DMP) (included as Appendix E of the *Final, Revision 1, Parcel G Removal Site Evaluation Work Plan Addendum, Hunters Point Naval Shipyard, San Francisco, California* [APTIM, 2020]). The DMP describes procedures to reduce fugitive dust during work activities and outlines air sampling procedures to ensure these procedures are effective. Air sampling ensures on-site worker safety and provides reasonable assurance of the protection of the surrounding residents and public receptors.

This summary report describes the following:

- Where and how air samples are collected
- What test methods are used to analyze air samples
- How air sampling data are evaluated

This summary report presents the air sampling analytical results from August 24, 2020 through July 1, 2022 and compares the results with the established action levels included in the DMP (APTIM, 2020 [Appendix E]).

2.0 Sampling Site Locations

Air sampling stations were mobilized to collect air samples upwind and downwind of work areas for the duration of the project. The predominant wind direction at former Hunters Point Naval Shipyard is from the west or west-northwest. Figure 1 shows locations of air sampling stations and predominant wind direction. For the fieldwork performed during this period, APTIM used two upwind sampling locations and three downwind sampling locations marked as follows:

- “Air Sampling Station 1 (upwind)”
- “Air Sampling Station 1A (upwind)”
- “Air Sampling Station 17 (downwind)”
- “Air Sampling Station 17A (downwind)”
- “Air Sampling Station 18 (downwind)”

The upwind air sampling stations 1 and 1A and the downwind air sampling stations 17, 17A, or 18 were used based on the location of fieldwork. One upwind sampling station and one downwind sampling station was in use at a time. A windsock installed on site was used to show wind direction and weather forecasts were checked daily at www.noaa.gov. Sampling stations remained stationary while sampling was conducted. Each sampling station included four separate air sampling systems for the following:

- Total suspended particulates (TSP) and metals (lead and manganese)
- Particulate matter larger than 10 microns in size (PM10)
- Asbestos
- Radionuclides of concern (ROCs)

3.0 Analytical Methods

TSP, Lead, and Manganese: TSP samples were collected with a high-volume (39 to 60 cubic feet per minute) air sampler in accordance with U.S. Environmental Protection Agency's (EPA's) reference sampling method for TSP, described in Title 40 Code of Federal Regulations, Part 50, Appendix B. Each sample was collected on a filter over the course of a period not to exceed 25 hours; the filter was then weighed to determine the amount of TSP collected. Once the amount of TSP was determined, the sample was analyzed for lead and manganese in accordance with one of the IO-3 methods identified in the *Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air* (EPA, 1999). The equipment specifications and sampling procedures used, including the sampling apparatus, filters, equipment accuracy, equipment calibration, and quality assurance checks conformed to those specified in the analytical method. The TSP high-volume samplers were calibrated using a National Institute of Standards and Technology (NIST)-traceable flow controller to 40.0 cubic feet per minute on a monthly basis and flowrates were recorded daily and adjusted as needed to maintain the flowrates.

PM10: Air samples were collected and analyzed for PM10 in accordance with EPA's reference sampling method for PM10, described in 40 Code of Federal Regulations Part 50, Appendix J. Each sample was collected on a filter over the course of a period not to exceed 25 hours; the filter was then weighed to evaluate the concentrations of PM10 in ambient air. The PM10 high-volume samplers were calibrated using a NIST-traceable flow controller to 40.0 cubic feet per minute on a monthly basis and flowrates were recorded daily and adjusted as needed to maintain flowrates.

Asbestos: Air samples were collected and analyzed for asbestos in accordance with the National Institute for Occupational Safety and Health Method 7400, in the *NIOSH Manual of Analytical Methods* (1994). Method 7400 requires that samples be collected on three-piece cellulose ester filters, which are fitted with conductive cowlings, at a sampling rate of between 0.5 liter per minute and 16 liters per minute. Each sample was collected on a filter over the course of a period not to exceed 25 hours. The GilAir Plus pumps were calibrated using a NIST-traceable flow controller to 2.0 liters per minute on a monthly basis, and flowrates were recorded daily and adjusted as needed to maintain flowrates.

ROCs: Air samples were collected and analyzed for ROCs to demonstrate dust management controls were protective of worker health and public health for off-site

receptors. Radiological air samples were collected using low-volume air samplers, F&J Specialty Products, Inc. Model LV-1D over 104 hours (Monday morning to Friday afternoon) to achieve the sample volume required to provide minimum detectable activities below the action levels. The samples were analyzed at the off-site laboratory for Gamma Spectroscopy (EPA 901.1/DOE EML HASL-300), gas flow proportional counting (EPA Method 905.0), and Alpha Spectroscopy.

4.0 Analysis of Air Sampling Data

Analytical results from air sampling samples were compared with the action levels listed in Table 4-1 and in accordance with the DMP (APTIM, 2020 [Appendix E]).

Table 4-1: Air Sampling Action Levels

Test Parameters	Action Level	Basis
PM10	50 µg/m ³	DTSC HERO developed action level (residents and public receptors) ^a
	5,000 µg/m ³ ^b	Cal/OSHA PEL (on-site workers)
TSP	500 µg/m ³	Basewide HPNS level chosen to minimize overall permissible dust release from sites (on-site workers)
Lead	50 µg/m ³	Cal/OSHA PEL (on-site workers)
Manganese	200 µg/m ³	Cal/OSHA PEL (on-site workers)
Asbestos	0.1 fiber/cm ³	Cal/OSHA PEL (on-site workers)
Cesium-137	4.00E-11 µCi/mL	10 CFR, Part 20, Appendix B, Table 2 Column 1 adjusted from 50 mrem per year to a maximum annual exposure of 10 mrem per year at the receptor (public receptor) ^c
Plutonium-239	4.00E-15 µCi/mL	
Radium-226	1.80E-13 µCi/mL	
Strontium-90	1.20E-12 µCi/mL	
Thorium-232	1.20E-15 µCi/mL	
Uranium-235	6.00E-13 µCi/mL	

Notes:

- ^a The DTSC HERO action level is based on the CSAAQS. The CSAAQS is designed to protect the general public from airborne particulates generated in the urban, suburban, and rural environments. The CSAAQS is not meant to be applied to general project-specific construction actions and related air quality. Rather, the standard is used to attain city- or regional-wide ambient air quality goals for the benefit of the general public. The current CSAAQS for PM10 is 50 µg/m³ average per 24-hour day. The City and County of San Francisco is currently a non-attainment area for the CSAAQS for PM10.
- ^b Cal/OSHA PEL for particulates not otherwise regulated (respiratory) used for PM10.
- ^c Results may be evaluated using 40 CFR Appendix E to Part 61 to demonstrate compliance with the National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61).

µCi/mL microcurie per milliliter (activity)
 µg/m³ microgram per cubic meter
 Cal/OSHA California Occupational Safety and Health Administration
 CFR Code of Federal Regulations
 CSAAQS California State ambient air quality standard

DTSC	California Department of Toxic Substances Control
fiber/cm ³	fiber per cubic centimeter
HERO	Human and Ecological Risk Office
HPNS	former Hunters Point Naval Shipyard
mrem	millirem
PEL	permissible exposure limit
PM10	particulate matter smaller than 10 microns in diameter
TSP	total suspended particulates

5.0 Air Sampling Results

The tables included as Attachment 1 present weather information (including ambient pressure and temperature data) and air sampling results. Air sampling data were collected from the upwind sampling station and downwind sampling station (Section 2.0). Table 5-1 lists each interim air sampling report and the dates covered in each report.

Table 5-1: Air Sampling Report Summary

Interim Report Number	New Data Date Range
001	08/24/20–09/11/20
002	09/14/20–09/25/20
003	09/28/20–12/05/20
004	12/07/20–02/05/21
005	02/08/21–02/16/21
006	05/24/21–06/11/21
007	06/14/21–07/16/21
008	07/19/21–08/20/21
009	08/23/21–10/15/21
010	10/18/21–12/10/21
011	06/02/22–07/01/22

5.1 Report 001

There were no site-related exceedances above air sampling threshold criteria and action levels during this reporting period.

There were PM₁₀ exceedances (above 50 micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]) in both upwind and downwind samples on August 28, September 9, September 10, and September 11, 2020. PM₁₀ concentrations were unusually high due to forest fires near the area and not related to site activities.

A summary of air sampling station downtime for the reporting period is as follows:

- August 24, 2020—The TSP sampler at the downwind air sampling station was down for approximately 1 hour. The generator was repaired on August 24 and replaced on August 25.
- August 27, 2020—While conducting daily filter changeouts, the air sampling technician noticed the upwind generator was shut off due to low fuel. The

duration of shut off time is unknown. Generator was refueled and sampling was restarted at 0805.

- September 2, 2020—Downwind station was shut off for 15 minutes, from approximately 0830 to 0845. The generator exhaust was re-positioned downwind from the samplers to minimize pollutant contamination from the exhaust.
- September 8, 2020—Downwind sampling was shut off for approximately 1 hour, from 0922 to 1022. The station was relocated to Air Sampling Station 17A.

5.2 Report 002

There were no site-related exceedances above air sampling threshold criteria and action levels during this reporting period.

There was a PM₁₀ exceedance (above 50 µg/m³) in the downwind sample on September 14, 2020. PM₁₀ concentrations were unusually high due to forest fires near the area and not related to site activities. The upwind sample from that day contributed 48.6 µg/m³ and the downwind sample was 88.4 µg/m³; the site-related PM₁₀ concentration was 39.8 µg/m³.

A summary of air sampling station downtime for the reporting period is as follows:

- September 16, 2020—The downwind sampling station was down for one hour while replacing the generator.
- September 18, 2020—The upwind sampling station was down for approximately 0.75 hours while replacing the generator.
- September 25, 2020—The upwind sampling station was down for approximately four hours due to a generator malfunction. The new generator was brought on site, and the upwind air sampling station returned to service at 1119.

5.3 Report 003

There were PM₁₀ exceedances above the California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) developed action level (50 µg/m³) on the following dates (Attachment 1, Table 3):

- October 1, 2020 (upwind and downwind)
- October 2, 2020 (upwind and downwind)
- October 6, 2020 (upwind)
- October 15, 2020 (upwind and downwind)
- October 23, 2020 (upwind and downwind)
- October 28, 2020 (upwind)
- November 16, 2020 (upwind)
- November 21, 2020 (downwind)
- December 3, 2020 (upwind and downwind)
- December 4, 2020 (upwind and downwind)
- December 5, 2020 (upwind and downwind)

Air sampling results are subtracted based on predominant wind direction when wind speeds are greater than 5 miles per hour (mph). Attachment 2 presents a summary of the subtraction criteria. Based on wind direction and wind speed, site-related PM₁₀ concentrations were below the 50 µg/m³ action level on October 2, 2020, October 6, 2020, October 23, 2020, and October 28, 2020.

In early October, PM₁₀ concentrations were unusually high due to forest fires near the area and not related to site activities. PM₁₀ results above the DTSC HERO developed action level (50 µg/m³) on October 1, 2020 were not related to site activities. The regional concentration of particulate matter larger than 2.5 microns in size (PM_{2.5}), measured at the Bay Area Air Quality Management District (BAAQMD) Arkansas Street Station, was also elevated at 130 µg/m³, according to the BAAQMD website. Elevated results on this day are not related to site activities.

On October 15, 2020, PM₁₀ results were above the DTSC HERO developed action level (50 µg/m³) at both the upwind and downwind air sampler locations (89.1 µg/m³ and

79.7 $\mu\text{g}/\text{m}^3$, respectively). Wind speed was below 5 mph and the wind direction was north (Attachment 1, Table1).

On November 16, 2020, the upwind result was 63.8 $\mu\text{g}/\text{m}^3$, above the 50 $\mu\text{g}/\text{m}^3$ action level; however, the downwind result was below the action level (34.5 $\mu\text{g}/\text{m}^3$). Wind speed was below 5 mph and the wind direction was south-southeast (Attachment 1, Table1).

On November 21, 2020, the downwind PM10 result was 76 $\mu\text{g}/\text{m}^3$, above the 50 $\mu\text{g}/\text{m}^3$ action level. Wind speed was below 5 mph and the wind direction was northeast (Attachment 1, Table1).

In accordance with the DMP (APTIM, 2020 [Appendix E]), dust (measured as PM10) is also monitored in real-time using DustTrak™ monitors. Although the PM10 filter-based air sample results, analyzed at the off-site laboratory, were above the DTSC HERO developed action level (50 $\mu\text{g}/\text{m}^3$), the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on October 15, November 16, and November 21, 2020.

On December 3, 4, and 5, 2020, site PM10 results ranged from 51 to 74 $\mu\text{g}/\text{m}^3$ from both upwind and downwind air sampler locations. Wind speed ranged from 0.9 to 2 mph, and the wind direction was northeast or south (Attachment 1, Table 1). Regional concentrations of PM2.5, measured at the BAAQMD Arkansas Street Station, were also elevated, and ranged from 62 to 69 $\mu\text{g}/\text{m}^3$, according to the BAAQMD website. The PM2.5 regional data suggests the elevated results on these days were not related to site activities.

A summary of air sampling station downtime for the reporting period is as follows:

- October 13, 2020—The downwind air sampling station was offline from 0745 to 0928 (approximately 1.5 hours). The Parcel G radiologically controlled area was expanded, and the air sampling station was moved to the other side of the fence to keep the station outside the radiologically controlled area. The station was relocated less than 10 meters.
- October 19, 2020—The downwind air sampling station 17A was offline from approximately 0800 to 0820 for generator maintenance.
- December 3, 2020—The upwind air sampling station 1 was offline from approximately 0707 to 0720 (13 minutes) and the downwind air sampling station

18 was offline from approximately 0734 to 0752 (18 minutes) for generator maintenance.

5.4 Report 004

There were PM10 exceedances above the DTSC HERO developed action level ($50 \mu\text{g}/\text{m}^3$) on the following dates (Attachment 1, Table 3):

- December 8, 2020 (upwind)
- December 9, 2020 (upwind and downwind)
- January 19, 2021 (upwind and downwind)
- January 20, 2021 (upwind and downwind)
- January 21, 2021 (upwind)
- February 5, 2021 (upwind)

Air sampling results are subtracted based on predominant wind direction when wind speeds are greater than 5 mph. Based on wind direction and wind speed, site-related PM10 concentrations were not subtracted for the listed dates.

On December 8, 2020, the upwind result was above the $50 \mu\text{g}/\text{m}^3$ action level and the downwind result was below the action level ($63.9 \mu\text{g}/\text{m}^3$ and $32.3 \mu\text{g}/\text{m}^3$, respectively). Wind speed was below 5 mph and the wind direction was northeast (Attachment 1, Table 1). In accordance with the DMP (APTIM, 2020 [Appendix E]), dust (measured as PM10) is also monitored in real-time using DustTrak™ monitors. Although the PM10 filter-based air sample result, analyzed at the off-site laboratory, was above the DTSC HERO developed action level ($50 \mu\text{g}/\text{m}^3$), the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on December 8, 2020.

On December 9, 2020, PM10 results were above the DTSC HERO developed action level ($50 \mu\text{g}/\text{m}^3$) at both the upwind and downwind air sampler locations ($90.5 \mu\text{g}/\text{m}^3$ and $64.0 \mu\text{g}/\text{m}^3$, respectively). Wind speed was below 5 mph and the wind direction was south-southwest (Attachment 1, Table 1). Regional concentrations of PM2.5, measured at the BAAQMD Arkansas Street Station, were also elevated on December 9, 2020 ($78 \mu\text{g}/\text{m}^3$) according to the BAAQMD website. The PM2.5 regional data suggests the elevated results on this day may not be related to site activities.

On January 19, 2021, PM10 results were above the DTSC HERO developed action level ($50 \mu\text{g}/\text{m}^3$) at both the upwind and downwind air sampler locations ($50.8 \mu\text{g}/\text{m}^3$ and $73.7 \mu\text{g}/\text{m}^3$, respectively). Wind speed was 15.4 mph and the wind direction was north-northeast (Attachment 1, Table 1). Although the PM10 filter-based air sample results, analyzed at the off-site laboratory, were above the DTSC HERO developed action level ($50 \mu\text{g}/\text{m}^3$), the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on January 19, 2021.

On January 20, 2021, PM10 results were above the DTSC HERO developed action level ($50 \mu\text{g}/\text{m}^3$) at both the upwind and downwind air sampler locations ($81.3 \mu\text{g}/\text{m}^3$ and $62.2 \mu\text{g}/\text{m}^3$, respectively). Wind speed was below 5 mph and the wind direction was south (Attachment 1, Table 1). Regional concentrations of PM2.5, measured at the BAAQMD Arkansas Street Station, were also elevated on January 20, 2021 ($57 \mu\text{g}/\text{m}^3$) according to the BAAQMD website. The PM2.5 regional data suggests the elevated results on this day may not be related to site activities.

On January 21, 2021, the upwind result was above the $50 \mu\text{g}/\text{m}^3$ action level and the downwind result was below the action level ($71.2 \mu\text{g}/\text{m}^3$ and $35.5 \mu\text{g}/\text{m}^3$, respectively). Wind speed was below 5 mph and the wind direction was southwest (Attachment 1, Table 1). Although the PM10 filter-based air sample results, analyzed at the off-site laboratory, were above the DTSC HERO developed action level ($50 \mu\text{g}/\text{m}^3$), the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on January 21, 2021.

On February 5, 2021, the upwind result was above the $50 \mu\text{g}/\text{m}^3$ action level and the downwind result was below the action level ($51.0 \mu\text{g}/\text{m}^3$ and $17.0 \mu\text{g}/\text{m}^3$, respectively). Wind speed was below 5 mph and the wind direction was west-southwest (Attachment 1, Table 1). Although the PM10 filter-based air sample results, analyzed at the off-site laboratory, were above the DTSC HERO developed action level ($50 \mu\text{g}/\text{m}^3$), the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on February 5, 2021.

There were thorium-232 (^{232}Th) exceedances above the action limit ($1.20\text{E}-15$ microcurie per milliliter [$\mu\text{Ci}/\text{mL}$]) in the upwind and downwind samples collected between December 21 and December 22, 2020. The upwind sample result was $1.97 \text{E}-15 \mu\text{Ci}/\text{mL } ^{232}\text{Th}$, and the downwind sample result was $1.29\text{E}-15 \mu\text{Ci}/\text{mL } ^{232}\text{Th}$ (Attachment 1, Table 5). Wind speed on these dates ranged from 3.8 to 4.3 mph and the wind direction was north-northeast (Attachment 1, Table 1). The samples had a

shorter duration (27 hours versus typical 104 hours) due to the site shutting down for weather between December 23, 2020 and January 4, 2021. Shorter sample durations equate to smaller sample volumes. The shorter sample durations increase total uncertainty in the measurement which may bias the sample results. Additionally, ^{232}Th was detected in the field blank sample from this week above the action limit at $1.92\text{E-}15 \mu\text{Ci/mL } ^{232}\text{Th}$ (Table 6-4). Field blank filter sample results have ranged from $5.26\text{E-}17$ to $1.92\text{E-}15 \mu\text{Ci/mL } ^{232}\text{Th}$ (Table 6-4) between August 24, 2020 and February 5, 2021. Air samples are collected on glass fiber filters, which may contain naturally occurring radioactive material (NORM). The ^{232}Th detections in the field blank samples, coupled with the low ^{232}Th results, suggest these exceedances may be due to NORM background in the sample filter media. Communications with the laboratory have also confirmed many filter media contain small amounts of NORM, and further investigation relative to the background of current filters in use is in progress.

A summary of air sampling station downtime for the reporting period is as follows:

- December 17, 2020—Upwind TSP air sampler was offline for approximately 2 hours from 1000 to 1210.
- December 23, 2020-January 1, 2021—Air sampling not performed because the site was shut down due to weather conditions or holidays, and no workers were on site.
- January 4, 2021—Air sampling not performed due to rain.
- January 6, 2021—Air sampling performed for half the day (morning) due to rain.
- January 26, 2021-February 3, 2021—Air sampling not performed because the site was shut down due to weather conditions, and no workers were on site. Workers were on site February 4 and 5, 2021, for storm damage repairs only.

5.5 Report 005

There were PM₁₀ exceedances above the DTSC HERO developed action level ($50 \mu\text{g}/\text{m}^3$) on the following dates (Attachment 1, Table 3):

- February 11, 2021 (upwind)
- February 16, 2021 (upwind)

On February 11, 2021, the upwind result was above the $50 \mu\text{g}/\text{m}^3$ action level and the downwind result was below the action level ($66.5 \mu\text{g}/\text{m}^3$ and $9.7 \mu\text{g}/\text{m}^3$, respectively).

Wind speed was below 5 mph and the wind direction was south-southwest (Attachment 1, Table 1). Although the PM10 filter-based air sample results, analyzed at the off-site laboratory, were above the DTSC HERO developed action level ($50 \mu\text{g}/\text{m}^3$), the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on February 11, 2021.

On February 16, 2021, the upwind result was above the $50 \mu\text{g}/\text{m}^3$ action level and the downwind result was below the action level ($74.8 \mu\text{g}/\text{m}^3$ and $19.6 \mu\text{g}/\text{m}^3$, respectively). Wind speed was below 5 mph and the wind direction was southwest (Attachment 1, Table 1). Although the PM10 filter-based air sample results, analyzed at the off-site laboratory, were above the DTSC HERO developed action level ($50 \mu\text{g}/\text{m}^3$), the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on February 16, 2021.

A summary of air sampling station downtime for the reporting period is as follows:

- February 15, 2021—No air sampling due to rain conditions.

5.6 Report 006

There were no site-related exceedances above air sampling threshold criteria and action levels during this reporting period.

A summary of air sampling station downtime for the reporting period is as follows:

- May 24, 2021—Air sampling was initiated in the afternoon to check for calibration; no asbestos sample was collected. The project remobilized on May 24, 2021 and there were no field activities during the day.

5.7 Report 007

There were PM10 exceedances above the DTSC HERO developed action level ($50 \mu\text{g}/\text{m}^3$) on the following dates (Attachment 1, Table 3):

- June 18, 2021 (upwind and downwind)
- June 21, 2021 (downwind)
- July 9, 2021 (upwind)

Air sampling results are subtracted based on predominant wind direction when wind speeds are greater than 5 mph. Attachment 2 presents a summary of the subtraction criteria. Based on wind direction and wind speed, site-related PM10 concentrations were not subtracted for the listed dates.

On June 18, 2021, both the upwind and downwind results were above the action level ($72.6 \mu\text{g}/\text{m}^3$ and $65.9 \mu\text{g}/\text{m}^3$, respectively), indicating potential off-site interferences. Wind speed was 7.4 mph and the wind direction was west (Attachment 1, Table 1), so results were not subtracted. While the PM10 filter-based air sample results, analyzed at the off-site laboratory, were above the DTSC HERO developed action level ($50 \mu\text{g}/\text{m}^3$), the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level. The BAAQMD issued “Spare the Air” advisories for PM2.5 on June 17 and June 18. The closest BAAQMD Air Monitor at San Francisco-Arkansas Street had a daily average PM2.5 result of $64 \mu\text{g}/\text{m}^3$ on June 18, 2021.

On June 21, 2021, the upwind result was below the action level and the downwind result was above the action level ($16.7 \mu\text{g}/\text{m}^3$ and $122 \mu\text{g}/\text{m}^3$, respectively). Wind speed was 6.7 mph and the wind direction was west-southwest (Attachment 1, Table 1), so results were not subtracted. Although the PM10 filter-based air sample results, analyzed at the off-site laboratory, were above the action level, the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on June 21, 2021.

On July 9, 2021, the upwind result was above the action level and the downwind result was below the action level ($52.1 \mu\text{g}/\text{m}^3$ and $38.5 \mu\text{g}/\text{m}^3$, respectively). Wind speed was 7.2 mph and the wind direction was west (Attachment 1, Table 1), so results were not subtracted. Although the PM10 filter-based air sample results, analyzed at the off-site laboratory, were above the action level, the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on July 9, 2021.

A summary of air sampling station downtime for the reporting period is as follows:

- July 6, 2021—The upwind air sampling station was moved approximately 15 meters (50 feet) upwind to sampling location 1A before start of work.

5.8 Report 008

There were PM₁₀ exceedances above the DTSC HERO developed action level (50 µg/m³) on the following dates (Attachment 1, Table 3):

- August 16, 2021 (upwind)
- August 20, 2021 (upwind)

Air sampling results are subtracted based on predominant wind direction when wind speeds are greater than 5 mph. Attachment 2 presents a summary of the subtraction criteria. Based on wind direction and wind speed, site-related PM₁₀ concentrations were not subtracted for the listed dates.

On August 16, 2021, the upwind result was above the action level and the downwind result was below the action level (53.6 µg/m³ and 32.5 µg/m³, respectively). Wind speed was 8.9 mph and the wind direction was west (Attachment 1, Table 1), so results were not subtracted. Although the PM₁₀ filter-based air sample results, analyzed at the off-site laboratory, were above the action level, the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on August 16, 2021. The closest BAAQMD Air Monitor at San Francisco-Arkansas Street had a daily average PM_{2.5} result of 42 µg/m³ on August 16, 2021.

On August 20, 2021, the upwind result was above the action level and the downwind result was below the action level (69.3 µg/m³ and 36.9 µg/m³, respectively). Wind speed was 5.9 mph and the wind direction was west (Attachment 1, Table 1), so results were not subtracted. Although the PM₁₀ filter-based air sample results, analyzed at the off-site laboratory, were above the action level, the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level. The BAAQMD issued “Spare the Air” advisories on August 20 due to pollution from local wildfires. The closest BAAQMD Air Monitor at San Francisco-Arkansas Street had a daily average PM_{2.5} result of 56 µg/m³ on August 20, 2021.

A summary of air sampling station downtime for the reporting period is as follows:

- August 8, 2021—Upwind PM₁₀ unit shut off 12:30–14:15 due to a malfunction with the generator circuit breaker.
- August 16, 2021—Upwind and Downwind generators were serviced. Only Upwind air samplers were down from 7:49–8:05. The downwind air samplers began sampling at 7:46, after the generator was serviced.

5.9 Report 009

There were PM10 exceedances above the DTSC HERO developed action level (50 $\mu\text{g}/\text{m}^3$) on the following dates (Attachment 1, Table 3):

- August 27, 2021 (upwind)
- August 30, 2021 (upwind)
- August 31, 2021 (upwind)
- September 1, 2021 (upwind)
- September 2, 2021 (upwind)
- September 3, 2021 (upwind)
- September 7, 2021 (upwind)
- September 8, 2021 (upwind)
- September 14, 2021 (upwind)
- September 15, 2021 (upwind)
- September 16, 2021 (upwind)
- September 20, 2021 (upwind)
- October 4, 2021 (upwind)
- October 6, 2021 (upwind)
- October 7, 2021 (upwind)
- October 8, 2021 (upwind)

Air sampling results are subtracted based on predominant wind direction when wind speeds are greater than 5 mph. Attachment 2 presents a summary of the subtraction criteria. Based on wind direction and wind speed, site-related PM10 concentrations were not subtracted for the listed dates.

On August 27, 2021, the upwind result was above the action level and the downwind result was below the action level (75.4 $\mu\text{g}/\text{m}^3$ and 46.6 $\mu\text{g}/\text{m}^3$, respectively). Wind speed was 3.4 mph and the wind direction was south (Attachment 1, Table 1), therefore results were not subtracted. Although the PM10 filter-based air sample results, analyzed at the off-site laboratory, were above the action level, the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on August 27,

2021. The closest BAAQMD Air Monitor at San Francisco-Arkansas Street had a daily average PM_{2.5} result of 56 µg/m³ on August 27, 2021. The BAAQMD issued a “Spare the Air” advisory for PM_{2.5} on August 27, 2021. While the reported real-time dust monitoring results (measured as PM₁₀) were below the action level, the BAAQMD PM_{2.5} monitor had a daily average PM_{2.5} result of 56 µg/m³.

On August 30, 2021, the upwind result was above the action level and the downwind result was below the action level (57.0 µg/m³ and 34.8 µg/m³, respectively). Wind speed was 7.1 mph and the wind direction was west (Attachment 1, Table 1), therefore results were not subtracted. Although the PM₁₀ filter-based air sample results, analyzed at the off-site laboratory, were above the action level, the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on August 30, 2021. The closest BAAQMD Air Monitor at San Francisco-Arkansas Street had a daily average PM_{2.5} result of 53 µg/m³ on August 30, 2021. While the reported real-time dust monitoring results (measured as PM₁₀) were below the action level, the BAAQMD PM_{2.5} monitor had a daily average PM_{2.5} result of 53 µg/m³.

On August 31, 2021, the upwind result was above the action level and the downwind result was below the action level (60.2 µg/m³ and 37.3 µg/m³, respectively). Wind speed was 7.8 mph and the wind direction was west (Attachment 1, Table 1), therefore results were not subtracted. Although the PM₁₀ filter-based air sample results, analyzed at the off-site laboratory, were above the action level, the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on August 31, 2021. The closest BAAQMD Air Monitor at San Francisco-Arkansas Street had a daily average PM_{2.5} result of 48 µg/m³ on August 31, 2021.

On September 1, 2021, the upwind result was above the action level and the downwind result was below the action level (105 µg/m³ and 35.8 µg/m³, respectively). Wind speed was 7.8 mph and the wind direction was southwest (Attachment 1, Table 1), therefore results were not subtracted. Although the PM₁₀ filter-based air sample results, analyzed at the off-site laboratory, were above the action level, the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on September 1, 2021. The closest BAAQMD Air Monitor at San Francisco-Arkansas Street had a daily average PM_{2.5} result of 49 µg/m³ on September 1, 2021.

On September 2, 2021, the upwind result was above the action level and the downwind result was below the action level (71.4 µg/m³ and 32.7 µg/m³, respectively). Wind speed was 8.4 mph and the wind direction was west-southwest (Attachment 1, Table 1),

therefore results were not subtracted. The average daily real-time dust monitoring results (DustTrak™ results) were also above the DTSC action level on September 2, 2021. The closest BAAQMD Air Monitor at San Francisco-Arkansas Street had a daily average PM2.5 result of 67 $\mu\text{g}/\text{m}^3$ on September 2, 2021. Smoke from local wildfires was observed and caused hazy skies across the Bay area, likely contributing to the elevated PM10 concentrations on September 2, 2021.

On September 3, 2021, the upwind result was above the action level and the downwind result was below the action level (53.9 $\mu\text{g}/\text{m}^3$ and 34.8 $\mu\text{g}/\text{m}^3$, respectively). Wind speed was 6.7 mph and the wind direction was west (Attachment 1, Table 1), therefore results were not subtracted. The average daily real-time dust monitoring results (DustTrak™ results) were also above the DTSC action level on September 3, 2021. The closest BAAQMD Air Monitor at San Francisco-Arkansas Street had a daily average PM2.5 result of 61 $\mu\text{g}/\text{m}^3$ on September 3, 2021. Smoke from local wildfires was observed and caused hazy skies across the Bay area, likely contributing to the elevated PM10 concentrations on September 3, 2021.

On September 7, 2021, the upwind result was above the action level and the downwind result was below the action level (73.3 $\mu\text{g}/\text{m}^3$ and 24.5 $\mu\text{g}/\text{m}^3$, respectively). Wind speed was 6.8 mph and the wind direction was west-southwest (Attachment 1, Table 1), therefore results were not subtracted. Although the PM10 filter-based air sample results, analyzed at the off-site laboratory, were above the action level, the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on September 7, 2021. The closest BAAQMD Air Monitor at San Francisco-Arkansas Street had a daily average PM2.5 result of 31 $\mu\text{g}/\text{m}^3$ on September 7, 2021. The BAAQMD issued a "Spare the Air" advisory for PM2.5 on September 7, 2021 due to local wildfires.

On September 8, 2021, the upwind result was above the action level and the downwind result was below the action level (55.3 $\mu\text{g}/\text{m}^3$ and 16.2 $\mu\text{g}/\text{m}^3$, respectively). Wind speed was 9.2 mph and the wind direction was west (Attachment 1, Table 1), therefore results were not subtracted. Although the PM10 filter-based air sample results, analyzed at the off-site laboratory, were above the action level, the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on September 8, 2021. The closest BAAQMD Air Monitor at San Francisco-Arkansas Street had a daily average PM2.5 result of 31 $\mu\text{g}/\text{m}^3$ on September 8, 2021.

On September 14, 2021, the upwind result was above the action level and the downwind result was below the action level (65.5 $\mu\text{g}/\text{m}^3$ and 24.1 $\mu\text{g}/\text{m}^3$, respectively). Wind speed was 6.4 mph and the wind direction was southwest (Attachment 1, Table 1), therefore results were not subtracted. Although the PM10 filter-based air sample results, analyzed at the off-site laboratory, were above the action level, the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on September 14, 2021. The closest BAAQMD Air Monitor at San Francisco-Arkansas Street had a daily average PM2.5 result of 40 $\mu\text{g}/\text{m}^3$ on September 14, 2021.

On September 15, 2021, the upwind result was above the action level and the downwind result was below the action level (102 $\mu\text{g}/\text{m}^3$ and 22.5 $\mu\text{g}/\text{m}^3$, respectively). Wind speed was 7.9 mph and the wind direction was west (Attachment 1, Table 1), therefore results were not subtracted. Although the PM10 filter-based air sample results, analyzed at the off-site laboratory, were above the action level, the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on September 15, 2021. The closest BAAQMD Air Monitor at San Francisco-Arkansas Street had a daily average PM2.5 result of 49 $\mu\text{g}/\text{m}^3$ on September 15, 2021.

On September 16, 2021, the upwind result was above the action level and the downwind result was below the action level (59.3 $\mu\text{g}/\text{m}^3$ and 22.3 $\mu\text{g}/\text{m}^3$, respectively). Wind speed was 5.4 mph and the wind direction was west (Attachment 1, Table 1), therefore results were not subtracted. Although the PM10 filter-based air sample results, analyzed at the off-site laboratory, were above the action level, the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on September 16, 2021. The closest BAAQMD Air Monitor at San Francisco-Arkansas Street had a daily average PM2.5 result of 35 $\mu\text{g}/\text{m}^3$ on September 16, 2021.

On September 20, 2021, the upwind result was above the action level and the downwind result was below the action level (53.6 $\mu\text{g}/\text{m}^3$ and 25.6 $\mu\text{g}/\text{m}^3$, respectively). Wind speed was 1.8 mph and the wind direction was south (Attachment 1, Table 1), therefore results were not subtracted. Although the PM10 filter-based air sample results, analyzed at the off-site laboratory, were above the action level, the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on September 20, 2021. The closest BAAQMD Air Monitor at San Francisco-Arkansas Street had a daily average PM2.5 result of 29 $\mu\text{g}/\text{m}^3$ on September 20, 2021.

On October 4, 2021, the upwind result was above the action level and the downwind result was below the action level (61.7 $\mu\text{g}/\text{m}^3$ and 18.4 $\mu\text{g}/\text{m}^3$, respectively). Wind speed

was 3.5 mph and the wind direction was south (Attachment 1, Table 1), therefore results were not subtracted. Although the PM₁₀ filter-based air sample results, analyzed at the off-site laboratory, were above the action level, the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on October 4, 2021. The closest BAAQMD Air Monitor at San Francisco-Arkansas Street had a daily average PM_{2.5} result of 36 µg/m³ on October 4, 2021.

On October 6, 2021, the upwind result was above the action level and the downwind result was below the action level (55.8 µg/m³ and 20.2 µg/m³, respectively). Wind speed was 6.5 mph and the wind direction was west-southwest (Attachment 1, Table 1), therefore results were not subtracted. Although the PM₁₀ filter-based air sample results, analyzed at the off-site laboratory, were above the action level, the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on October 6, 2021. The closest BAAQMD Air Monitor at San Francisco-Arkansas Street had a daily average PM_{2.5} result of 17 µg/m³ on October 6, 2021.

On October 7, 2021, the upwind result was above the action level and the downwind result was below the action level (53.8 µg/m³ and 18.6 µg/m³, respectively). Wind speed was 8.3 mph and the wind direction was west-southwest (Attachment 1, Table 1), therefore results were not subtracted. Although the PM₁₀ filter-based air sample results, analyzed at the off-site laboratory, were above the action level, the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on October 7, 2021. The closest BAAQMD Air Monitor at San Francisco-Arkansas Street had a daily average PM_{2.5} result of 32 µg/m³ on October 7, 2021.

On October 8, 2021, the upwind result was above the action level and the downwind result was below the action level (58.9 µg/m³ and 17.5 µg/m³, respectively). Wind speed was 10.8 mph and the wind direction was west (Attachment 1, Table 1), therefore results were not subtracted. Although the PM₁₀ filter-based air sample results, analyzed at the off-site laboratory, were above the action level, the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on October 8, 2021. The closest BAAQMD Air Monitor at San Francisco-Arkansas Street had a daily average PM_{2.5} result of 17 µg/m³ on October 8, 2021.

A summary of air sampling station downtime for the reporting period is as follows:

- September 27, 2021—Downwind generator was started 1 hour late due to servicing.

- October 14, 2021—Upwind air sampler Location 1A was offline for approximately 13 hours due to a generator malfunction.

5.10 Report 010

There were no site-related exceedances above air sampling threshold criteria and action levels during this reporting period.

A summary of air sampling station downtime for the reporting period is as follows:

- October 19, 2021—The upwind and downwind air samplers were offline for approximately 15:35 and 16:06 hours, respectively, due to rain.
- October 20, 2021—The upwind and downwind air samplers were offline for approximately 21.75 hours and 22 hours, respectively, due to rain.
- October 21, 2021—The upwind and downwind air samplers were offline for approximately 9.75 hours and 10 hours, respectively, due to rain.
- October 25, 2021—Upwind and downwind generators were serviced. Downwind and upwind generators were down for approximately 15 minutes each.
- October 27, 2021—Upwind and downwind units were offline for approximately 13 hours due to no workers being on site.
- October 28-29, 2021—Upwind and downwind locations offline due to no workers being on site.

5.11 Report 011

There were PM₁₀ exceedances above the DTSC HERO developed action level (50 µg/m³) on the following dates (Attachment 1, Table 3):

- June 2, 2022 (upwind)
- June 13, 2022 (upwind)
- June 14, 2022 (upwind)
- June 15, 2022 (upwind)
- June 16, 2022 (upwind)
- June 28, 2022 (upwind)

Air sampling results are subtracted based on predominant wind direction when wind speeds are greater than 5 mph. Attachment 2 presents a summary of the subtraction criteria. Based on wind direction and wind speed, site-related PM10 concentrations were not subtracted for the listed dates.

The project re-mobilized on May 31, 2022, and activities entailing site setup and personnel training occurred during that first week from May 31 through June 3, 2022. Field activities, including earth moving activities, began on June 6, 2022. During re-mobilization and site setup, air monitoring was performed and those results, while not complete, are included in this report. Although site field activities had not started, on June 2, 2022, the upwind result was above the action level and the downwind result was below the action level (65.8 $\mu\text{g}/\text{m}^3$ and 4.35 $\mu\text{g}/\text{m}^3$, respectively). Work was active at adjacent Parcels E and E-2, which may have contributed to the PM10 measurement at the upwind location. Wind speed was 11.2 mph and the wind direction was west (Attachment 1, Table 1), therefore results were not subtracted. The closest BAAQMD Air Monitor at San Francisco-Arkansas Street had a daily average PM2.5 result of 15 $\mu\text{g}/\text{m}^3$ on June 2, 2022. Although the PM10 filter-based air sample results, analyzed at the off-site laboratory, were above the action level, no earth moving work was conducted on site for June 2, 2022 through June 3, 2022. Upwind exceedances were likely due to adjacent parcel truck activity.

The week of June 13 through 17, 2022, the upwind results were above the action level for four days and the downwind results were below the action level (see the following summary table). Based on wind direction and wind speed, site related PM10 concentrations were not subtracted for the listed dates. Although the PM10 filter-based air sample results, analyzed at the off-site laboratory, were above the action level, the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on all four days. The closest BAAQMD Air Monitor at San Francisco-Arkansas Street had a daily average PM2.5 results ranging from 11 to 51 $\mu\text{g}/\text{m}^3$ on these dates, indicating elevated regional PM2.5 concentrations during this timeframe. During this week, truck traffic increased near the upwind Parcel G upwind air monitoring station due to off-site transportation and disposal activities at Parcel E and soil spreading activities at Parcel E-2.

Date	PM10 Result Location 1A (Upwind) ($\mu\text{g}/\text{m}^3$)	PM10 Result Location 18 (Downwind) ($\mu\text{g}/\text{m}^3$)	Wind Speed (MPH)	Wind Direction	Results Subtracted?	Real-Time Dust Location 1A ($\mu\text{g}/\text{m}^3$)	BAAQMD San Francisco-Arkansas Street PM2.5 ($\mu\text{g}/\text{m}^3$)
6/13/22	58.6	26.9	6.1	West	No	12.6	28
6/14/22	68.0	34.1	7.2	West	No	25.5	51
6/15/22	93.3	27.8	9.9	West	No	30.3	48
6/16/22	112	19.0	11.3	West	No	4.9	11

On June 28, 2022, the upwind result was above the action level and the downwind result was below the action level ($63.9 \mu\text{g}/\text{m}^3$ and $24.7 \mu\text{g}/\text{m}^3$, respectively). Wind speed was 9.25 mph and the wind direction was west (Attachment 1, Table 1); therefore results were not subtracted. Although the PM10 filter-based air sample results, analyzed at the off-site laboratory, were above the action level, the average daily real-time dust monitoring results (DustTrak™ results) were below the DTSC action level on June 28, 2022. The closest BAAQMD Air Monitor at San Francisco-Arkansas Street had a daily average PM2.5 result of $26 \mu\text{g}/\text{m}^3$ on June 28, 2022. On June 28, 2022, truck traffic increased near the upwind Parcel G air station due to off-site transportation and disposal activities at Parcel E and soil spreading activities at Parcel E-2.

A summary of air sampling station downtime for the reporting period is as follows:

- December 10, 2022–June 1, 2022: No air monitoring due to temporary demobilization and no workers being on site.

6.0 Data Quality Assessment

Laboratory data were reviewed by the APTIM chemist to verify that analytical results were received from the laboratory, that the results provided in the electronic data deliverable and hard copy forms were the same, and that standard laboratory procedures and protocols were followed. Analytical data for this project were assessed in terms of precision, accuracy, representativeness, completeness, and comparability based on the requirements of the published EPA analytical methods and laboratory standard operating procedures and as specified in the DMP (APTIM, 2020 [Appendix E]).

Accuracy is demonstrated by recovery of target analytes from fortified blank and sample matrices, laboratory control sample (LCS), laboratory control sample duplicate (LCSD), matrix spike (MS), and matrix spike duplicate (MSD), respectively. The recovery of target analytes from fortified samples is compared to acceptance criteria. When these criteria are not met, the data are flagged appropriately.

Precision is expressed as relative percent difference (RPD) between the results of laboratory replicate sample analyses: sample duplicates (DU), LCSDs, and MSDs. When analyte RPDs exceed the acceptance criteria, the data are flagged appropriately.

Representativeness of the samples submitted for analysis is ensured by adherence to standard sampling techniques and protocols.

Comparability of sample results is ensured through the use of approved consistent sampling and analysis methods.

Completeness is expressed as a ratio of number of usable data to all analytical data collected.

Sensitivity of sample results is ensured through the use of appropriate sampling techniques and analytical methods with detection limits below decision levels.

The laboratory data packages were reviewed at EPA Level II. As applicable to referenced methodology, a Level II data review includes reviewing the following:

- Chain-of-custody/sample receipt
- Method blanks
- Field filter blanks

- Tracer compound recovery (ROCs)
- LCS/LCSD
- MS and MSD and sample duplicates
- Sensitivity
- Completeness (field and technical)

Table 6-1 lists samples collected, collection dates, analyses performed, and laboratory sample delivery groups (SDGs) that are discussed in the following subsections.

Table 6-1: Sample Delivery Group Summary

Date Range	SDG	Analyses
08/24/20 through 08/28/20	37375	PM10, TSP, Metals, Asbestos
08/24/20 through 08/28/20	39364	ROCs
08/31/20 through 09/04/20	37971	PM10, TSP, Metals, Asbestos
08/31/20 through 09/04/20	39383	ROCs
09/08/20 through 09/11/20	38566	PM10, TSP, Metals, Asbestos
09/08/20 through 09/11/20	39450	ROCs
09/14/20 through 09/18/20	39178	PM10, TSP, Metals, Asbestos
09/14/20 through 09/18/20	39533	ROCs
09/21/20 through 09/25/20	39763	PM10, TSP, Metals, Asbestos
09/21/20 through 09/25/20	39632	ROCs
09/28/20 through 10/02/20	40465	PM10, TSP, Metals, Asbestos
09/28/20 through 10/02/20	39752	ROCs
10/05/20 through 10/09/20	40980	PM10, TSP, Metals, Asbestos
10/05/20 through 10/09/20	39863	ROCs
10/12/20 through 10/16/20	41663	PM10, TSP, Metals, Asbestos
10/12/20 through 10/16/20	39983	ROCs
10/19/20 through 10/24/20	42226	PM10, TSP, Metals, Asbestos
10/19/20 through 10/24/20	40123	ROCs
10/26/20 through 10/30/20	42858	PM10, TSP, Metals, Asbestos
10/26/20 through 10/31/20	40264	ROCs
10/31/20, 11/02/20 through 11/07/20	43457	PM10, TSP, Metals, Asbestos
10/31/20 through 11/07/20	40343	ROCs
11/09/20 through 11/13/20	44183	PM10, TSP, Metals, Asbestos
11/11/20 through 11/16/20	40427	ROCs
11/16/20 through 11/21/20	44764	PM10, TSP, Metals, Asbestos
11/16/20 through 11/21/20	40558	ROCs
11/23/20 through 11/25/20	45096	PM10, TSP, Metals, Asbestos
11/23/20 through 11/25/20	40659	ROCs

Date Range	SDG	Analyses
11/30/20 through 12/05/20	45687	PM10, TSP, Metals, Asbestos
11/30/20 through 12/05/20	40701	ROCs
12/07/20 through 12/12/20	46537	PM10, TSP, Metals, Asbestos
12/07/20 through 12/12/20	40798	ROCs
12/14/20 through 12/18/20	47011	PM10, TSP, Metals, Asbestos
12/14/20 through 12/18/20	40877	ROCs
12/21/20 through 12/22/20	47068	PM10, TSP, Metals, Asbestos
12/21/20 through 12/22/20	40901	ROCs
01/05/21 through 01/08/21	48272	PM10, TSP, Metals, Asbestos
01/05/21 through 01/08/21	40982	ROCs
01/11/21 through 01/15/21	48977	PM10, TSP, Metals, Asbestos
01/11/21 through 01/15/21	41038	ROCs
01/19/21 through 01/22/21	49458	PM10, TSP, Metals, Asbestos
01/20/21 through 01/22/21	41108	ROCs
01/25/21	50057	PM10, TSP, Metals, Asbestos
02/04/21 through 02/05/21	50884	PM10, TSP, Metals, Asbestos
02/08/21 through 02/12/21	51584	PM10, TSP, Metals, Asbestos
02/08/21 through 02/12/21	41247	ROCs
02/16/21	52289	PM10, TSP, Metals, Asbestos
02/15/21 through 02/19/21	41385	ROCs
05/24/21 through 05/28/21	60822	PM10, TSP, Metals, Asbestos
05/24/21 through 05/28/21	42284	ROCs
06/01/21 through 06/04/21	61256	PM10, TSP, Metals, Asbestos
06/01/21 through 06/04/21	42325	ROCs
06/07/21 through 06/11/21	61970	PM10, TSP, Metals, Asbestos
06/07/21 through 06/11/21	42417	ROCs
06/14/21 through 06/18/21	62558	PM10, TSP, Metals, Asbestos
06/14/21 through 06/18/21	42479	ROCs
06/21/21 through 06/25/21	63302	PM10, TSP, Metals, Asbestos
06/21/21 through 06/25/21	42590	ROCs
06/28/21 through 07/02/21	63802	PM10, TSP, Metals, Asbestos
06/28/21 through 07/02/21	42684	ROCs
07/06/21 through 07/09/21	64527	PM10, TSP, Metals, Asbestos
07/06/21 through 07/09/21	42709	ROCs
07/12/21 through 07/16/21	65162 65839	PM10, TSP, Metals, Asbestos
07/12/21 through 07/16/21	42780	ROCs
07/19/21 through 07/23/21	65855	PM10, TSP, Metals, Asbestos
07/19/21 through 07/23/21	42878	ROCs
07/26/21 through 07/30/21	66345	PM10, TSP, Metals, Asbestos
07/26/21 through 07/30/21	42947	ROCs

Date Range	SDG	Analyses
08/02/21 through 08/06/21	67117	PM10, TSP, Metals, Asbestos
08/02/21 through 08/06/21	43019	ROCs
08/09/21 through 08/13/21	67779	PM10, TSP, Metals, Asbestos
08/09/21 through 08/13/21	43080	ROCs
08/16/21 through 08/20/21	68359	PM10, TSP, Metals, Asbestos
08/16/21 through 08/20/21	43163	ROCs
08/23/21 through 08/27/21	69083	PM10, TSP, Metals, Asbestos
08/23/21 through 08/27/21	43260	ROCs
08/30/21 through 09/03/21	69697	PM10, TSP, Metals, Asbestos
08/30/21 through 09/03/21	43329	ROCs
09/07/21 through 09/10/21	70410	PM10, TSP, Metals, Asbestos
09/07/21 through 09/10/21	43382	ROCs
09/13/21 through 09/17/21	70985	PM10, TSP, Metals, Asbestos
09/13/21 through 09/17/21	43446	ROCs
09/20/21 through 09/24/21	71452	PM10, TSP, Metals, Asbestos
09/20/21 through 09/24/21	43514	ROCs
09/27/21 through 10/01/21	72262	PM10, TSP, Metals, Asbestos
09/27/21 through 10/01/21	43577	ROCs
10/04/21 through 10/08/21	72975	PM10, TSP, Metals, Asbestos
10/04/21 through 10/08/21	43628	ROCs
10/11/21 through 10/15/21	73591	PM10, TSP, Metals, Asbestos
10/11/21 through 10/15/21	43694	ROCs
10/18/21 through 10/22/21	74102	PM10, TSP, Metals, Asbestos
10/18/21 through 10/22/21	43757	ROCs
10/25/21 through 10/27/21	75083	PM10, TSP, Metals, Asbestos
10/25/21 through 10/27/21	43813	ROCs
11/01/21 through 11/05/21	75597	PM10, TSP, Metals, Asbestos
11/01/21 through 11/05/21	43889	ROCs
11/11/21 through 11/13/21	76345	PM10, TSP, Metals, Asbestos
11/11/21 through 11/13/21	43958	ROCs
11/18/21 through 11/20/21	77276	PM10, TSP, Metals, Asbestos
11/18/21 through 11/20/21	44012	ROCs
11/22/21 through 11/23/21	77279	PM10, TSP, Metals, Asbestos
11/22/21 through 11/23/21	44055	ROCs
11/29/21 through 12/4/21	78430	PM10, TSP, Metals, Asbestos
11/29/21 through 12/4/21	44131	ROCs
12/06/21 through 12/10/21	80799	PM10, TSP, Metals, Asbestos
12/06/21 through 12/10/21	44225	ROCs
06/02/22 through 06/03/22	100343	PM10, TSP, Metals, Asbestos
06/06/22 through 06/10/22	100498	PM10, TSP, Metals, Asbestos
06/06/22 through 06/10/22	45813	ROCs

Date Range	SDG	Analyses
06/13/22 through 06/17/22	101225	PM10, TSP, Metals, Asbestos
06/13/22 through 06/17/22	45950	ROCs
06/20/22 through 06/24/22	101548	PM10, TSP, Metals, Asbestos
06/20/22 through 06/24/22	46040	ROCs
06/27/22 through 07/01/22	102245	PM10, TSP, Metals, Asbestos
06/27/22 through 07/01/22	46103	ROCs

Notes:

PM10 particulate matter larger than 10 microns in size
 ROC radionuclide of concern
 SDG sample delivery group
 TSP total suspended particulates

The data quality assessment discusses data review findings and their potential impact on the data quality and usability. Definitions of EPA qualifiers and reason codes applied to the affected sample results that are outside the established control requirements are presented as follows:

Table 6-2: Qualifier Definitions

Qualifier	Definition
	No qualifier indicates that the data are acceptable both qualitatively and quantitatively.
U	The analyte was analyzed for but was not detected above the reported sample quantitation limit.
J	The analyte was analyzed for and was positively identified, but the reported numerical value is estimated. Although the data are considered usable and may be used as appropriate to meet project objectives. Results are qualitatively acceptable and quantitatively uncertain.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate.
R	The analyte was analyzed for, but the presence <u>or</u> absence of the analyte has not been verified. Qualifier denotes the data are unusable due to deficiencies in the ability to analyze the sample and meet quality control criteria. Results are rejected and data are <u>unusable</u> for project decisions.

6.1 Sample Receipt and Laboratory Narrative

As required by EPA, samples were received at the laboratory under chain-of-custody and were logged in for analysis. Minor log-in discrepancies, if noted by the laboratory were resolved with the Project Chemist prior to analysis. Analyses were completed within method specified holding times for applicable methods. Sample analysis deviations or discrepancies are described as follows:

Table 6-3: Sample Analysis Discrepancies

SDG	Date Range	Analysis	Anomaly/Issue	Resolution
37971	08/31/20 - 09/04/20	Asbestos	PG-ASB090120-17DOWNWIND and PG-ASB090220-17DOWNWIND overloaded for asbestos (filters with particulate loading of greater than 50 percent cause potentially biased results)	Due to local forest fires, ash and smoke in the area affected sample collection. No asbestos results reported for 09/01/20 downwind and 09/02/20 downwind.
38566	09/08/20 - 09/11/20	Asbestos	PG-ASB091020-1UPWIND and PG-ASB091020-17DOWNWIND overloaded for asbestos (filters with particulate loading of greater than 50 percent cause potentially biased results)	Due to local forest fires, ash and smoke in the area affected sample collection. No asbestos results reported for 09/10/20.
60822	05/24/21 - 05/28/21	Asbestos	PG-ASB052621-1UPWIND filter was not analyzed due to the presence of spider in the cartridge. The Sampling Technician checks for insects and removes webs as soon they are observed in the field.	No asbestos result available for 5/26/21 upwind. The downwind sample on 5/26/21 is below the site action limit.
43757	10/18/21 - 10/22/21	Sr-90	PG-RAD-10222021-1A/UPWIND sample lost during method preparation due to broken centrifuge tube.	No upwind results reported for 10/22/21, downwind results were below the site action limit.

Notes:

SDG

sample delivery group

6.2 Blanks

Laboratory method blanks and field filter blanks were prepared and analyzed as recommended by the referenced methods and the DMP (APTIM, 2020 [Appendix E]).

The concentration of target analytes in the laboratory blanks and field blanks were either not detected or below the limit of detection for SDGs with the exceptions noted in this section.

The following radiological results were qualified “JB” due to method blank or field blank contamination:

Table 6-4: Blank Discrepancies for Radionuclides of Concern

SDG	Date Range	Sample ID	Result (µCi/mL)
²³⁹Pu/²⁴⁰Pu			
39364	08/24/20 - 08/28/20	Method Blank	6.582E-17
		PG-RAD-08282020-17/DOWNWIND	8.38E-17
39383	08/31/20 - 09/04/20	Method Blank	6.582E-17
		PG-RAD-09042020-17/DOWNWIND	1.01E-16
39450	09/08/20 - 09/11/20	Method Blank	6.582E-17
		PG-RAD-09112020-1/UPWIND	1.24E-16
44225	12/06/21 - 12/10/21	Method Blank	6.140E-17
		PG-RAD-12102021-1A/UPWIND	5.45E-17
²²⁶Ra			
39364	08/24/20 - 08/28/20	Method Blank	2.923E-15
		PG-RAD-08/282020-BLANK	7.86E-16
		PG-RAD-08282020-17/DOWNWIND	1.87E-15
39383	08/31/20 - 09/04/20	Method Blank	2.923E-15
		PG-RAD-09042020-BLANK	2.32E-15
		PG-RAD-09042020-1/UPWIND	1.87E-15
39450	09/08/20 - 09/11/20	PG-RAD-09042020-17/DOWNWIND	1.39E-15
		Method Blank	2.923E-15
		PG-RAD-09112020-BLANK	2.66E-15
39632	09/21/20 - 09/25/20	PG-RAD-09112020-1/UPWIND	1.17E-15
		Method Blank	1.937E-15
		PG-RAD-09112020-17A/DOWNWIND	1.96E-15
40901	12/21/20 - 12/22/20	PG-RAD-09252020-1/UPWIND	3.65E-15
		Method Blank	1.937E-15
		PG-RAD-09252020-17A/DOWNWIND	1.73E-15
40982	01/05/21 - 01/08/21	PG-RAD-12222020-BLANK	2.77E-15
		PG-RAD-12222020-18/DOWNWIND	1.93E-15
41385	02/15/21 - 02/19/21	Method Blank	9.075E-16
		PG-RAD-01082021-18/DOWNWIND	1.31E-15
		PG-RAD-02192021-BLANK	9.01E-16
41385	02/15/21 - 02/19/21	PG-RAD-02192021-1/UPWIND	5.08E-16
		PG-RAD-02192021-18/DOWNWIND	9.06E-16

SDG	Date Range	Sample ID	Result ($\mu\text{Ci/mL}$)
42709	07/06/21 - 07/09/21	PG-RAD-07092021-BLANK	6.88E-16
		PG-RAD-07092021-1A/UPWIND	1.67E-15
42878	07/19/21 - 07/23/21	PG-RAD-07232021-BLANK	6.51E-16
		PG-RAD-07232021-1A/UPWIND	9.19E-16
		PG-RAD-07232021-18/DOWNWIND	9.05E-16
42947	07/26/21 - 07/30/21	Method Blank	2.312E-15
		PG-RAD-07302021-1A/UPWIND	2.37E-15
		PG-RAD-07302021-18/DOWNWIND	3.26E-15
43163	08/16/21 - 08/20/21	Method Blank	1.469E-15
		PG-RAD-08202021-1A/UPWIND	1.64E-15
		PG-RAD-08202021-18/DOWNWIND	7.05E-16
43329	08/30/21 - 09/03/21	PG-RAD-09032021-BLANK	1.21E-15
		PG-RAD-09032021-18/DOWNWIND	1.45E-15
43382	09/07/21 - 09/10/21	PG-RAD-09102021-BLANK	1.29E-14
		PG-RAD-09102021-1A/UPWIND	1.46E-14
		PG-RAD-09102021-18/DOWNWIND	1.07E-14
43446	09/13/21 - 09/17/21	Method Blank	1.966E-15
		PG-RAD-09172021-1A/UPWIND	9.63E-16
		PG-RAD-09172021-18/DOWNWIND	9.89E-16
43694	10/11/21 - 10/15/21	PG-RAD-10152021-BLANK	8.69E-16
		PG-RAD-10152021-1A/UPWIND	9.47E-16
43889	11/01/21 - 11/05/21	Method Blank	5.629E-16
		PG-RAD-11052021-BLANK	4.28E-16
		PG-RAD-11052021-1A/UPWIND	4.14E-16
43757	10/18/21 - 10/22/21	Method Blank	6.446E-16
		PG-RAD-10222021-1A/UPWIND	1.01E-15
⁹⁰Sr			
39383	08/31/20 - 09/04/20	PG-RAD-09042020-BLANK	1.76E-15
		PG-RAD-09042020-1/UPWIND	3.33E-15
39533	09/14/20 - 09/18/20	Method Blank	3.394E-15
		PG-RAD-09182020-1/UPWIND	2.00E-15
39632	09/21/20 - 09/25/20	Method Blank	3.394E-15
		PG-RAD-09252020-1/UPWIND	4.00E-15
39983	10/12/20 - 10/16/20	PG-RAD-10162020-BLANK	1.59E-15
		PG-RAD-10162020-17A/DOWNWIND	2.06E-15
40343	10/31/20 - 11/07/20	PG-RAD-11072020-BLANK	1.16E-14
		PG-RAD-11072020-1/UPWIND	1.01E-14
		PG-RAD-11072020-18/DOWNWIND	6.50E-15
41385	02/15/21 - 02/19/21	PG-RAD-02192021-BLANK	1.44E-15
		PG-RAD-02192021-18/DOWNWIND	8.64E-16

SDG	Date Range	Sample ID	Result ($\mu\text{Ci/mL}$)
42284	05/24/21 - 05/28/21	PG-RAD-05282021-BLANK	1.24E-14
		PG-RAD-05282021-1/UPWIND	1.07E-14
		PG-RAD-05282021-18/DOWNWIND	1.40E-14
42417	06/07/21 - 06/11/21	PG-RAD-06112021-BLANK	5.13E-15
		PG-RAD-06112021-18/DOWNWIND	2.66E-15
42684	06/28/21 - 07/02/21	PG-RAD-07022021-BLANK	2.12E-15
		PG-RAD-07022021-18/DOWNWIND	2.19E-15
42479	06/14/21 - 06/18/21	PG-RAD-06182021-BLANK	2.58E-15
		PG-RAD-06182021-1/UPWIND	2.44E-15
43163	08/16/21 - 08/20/21	Method Blank	1.885E-15
		PG-RAD-08202021-BLANK	1.45E-15
		PG-RAD-08202021-1A/UPWIND	3.64E-15
		PG-RAD-08202021-18/DOWNWIND	1.55E-15
43446	09/13/21 - 09/17/21	Method Blank	4.053E-15
		PG-RAD-09172021-BLANK	4.13E-15
		PG-RAD-09172021-1A/UPWIND	6.35E-15
		PG-RAD-09172021-18/DOWNWIND	4.56E-15
43514	09/20/21 - 09/24/21	Method Blank	2.898E-15
		PG-RAD-09242021-18/DOWNWIND	2.86E-15
43577	09/27/21 - 10/01/21	PG-RAD-10012021-BLANK	2.43E-15
		PG-RAD-10012021-1A/UPWIND	1.32E-15
43628	10/04/21 - 10/08/21	PG-RAD-10082021-BLANK	3.99E-15
		PG-RAD-10082021-1A/UPWIND	2.10E-15
43694	10/11/21 - 10/15/21	PG-RAD-10152021-BLANK	2.78E-15
		PG-RAD-10152021-1A/UPWIND	2.11E-15
43889	11/01/21 - 11/05/21	Method Blank	3.263E-16
		PG-RAD-11052021-BLANK	5.51E-15
		PG-RAD-11052021-1A/UPWIND	6.15E-15
43958	11/11/21 - 11/13/21	Method Blank	2.267E-15
		PG-RAD-11132021-18/DOWNWIND	3.84E-15
		PG-RAD-11132021-BLANK	3.90E-15
44012	11/18/21 - 11/20/21	PG-RAD-11202021-BLANK	1.75E-15
		PG-RAD-11202021-18/DOWNWIND	5.39E-15
44131	11/29/21 - 12/4/21	PG-RAD-12042021-BLANK	1.13E-16
		PG-RAD-12042021-1A/UPWIND	1.39E-16
		PG-RAD-12042021-18/DOWNWIND	9.50E-17
²³²Th			
39364	08/24/20 - 08/28/20	PG-RAD-08/282020-BLANK	2.44E-16
		PG-RAD-08/282020-1/UPWIND	1.98E-16
		PG-RAD-08/282020-17/DOWNWIND	3.19E-16

SDG	Date Range	Sample ID	Result ($\mu\text{Ci/mL}$)
39383	08/31/20 - 09/04/20	PG-RAD-09042020-BLANK	1.20E-15
		PG-RAD-09042020-1/UPWIND	4.93E-16
		PG-RAD-09042020-17/DOWNWIND	5.20E-16
39450	09/08/20 - 09/11/20	PG-RAD-09112020-BLANK	3.86E-16
		PG-RAD-09112020-1/UPWIND	3.90E-16
		PG-RAD-09112020-17A/DOWNWIND	2.86E-16
39533	09/14/20 - 09/18/20	PG-RAD-09182020-BLANK	3.60E-16
		PG-RAD-09182020-1/UPWIND	3.29E-16
		PG-RAD-09182020-17A/DOWNWIND	4.76E-16
39632	09/21/20 - 09/25/20	PG-RAD-09252020-BLANK	1.69E-16
		PG-RAD-09252020-1/UPWIND	1.51E-16
		PG-RAD-09252020-17A/DOWNWIND	1.80E-16
39752	09/28/20 - 10/02/20	Method Blank	1.224E-16
		PG-RAD-10022020-BLANK	1.76E-16
		PG-RAD-10022020-1/UPWIND	2.37E-16
		PG-RAD-10022020-17A/DOWNWIND	2.43E-16
39863	10/05/20 - 10/09/20	Method Blank	1.224E-16
		PG-RAD-10092020-BLANK	3.88E-16
		PG-RAD-10092020-1/UPWIND	2.54E-16
		PG-RAD-10092020-17A/DOWNWIND	1.61E-16
39983	10/12/20 - 10/16/20	Method Blank	1.224E-16
		PG-RAD-10162020-BLANK	1.99E-16
		PG-RAD-10162020-17A/DOWNWIND	6.22E-17
40264	10/26/20 - 10/31/20	PG-RAD-10312020-BLANK	5.26E-17
		PG-RAD-10312020-1/UPWIND	1.31E-16
		PG-RAD-10312020-17A/DOWNWIND	1.36E-16
40343	10/31/20 - 11/07/20	Method Blank	3.627E-17
		PG-RAD-11072020-BLANK	8.73E-17
		PG-RAD-11072020-1/UPWIND	8.80E-17
		PG-RAD-11072020-18/DOWNWIND	9.67E-17
40427	11/11/20 - 11/16/20	PG-RAD-11162020-BLANK	1.07E-16
		PG-RAD-11162020-1/UPWIND	1.27E-16
		PG-RAD-11162020-18/DOWNWIND	1.58E-16
40558	11/16/20 - 11/21/20	PG-RAD-11212020-BLANK	1.71E-16
		PG-RAD-11212020-1/UPWIND	1.12E-16
		PG-RAD-11212020-18/DOWNWIND	1.27E-16
40659	11/23/20 - 11/25/20	PG-RAD-11252020-BLANK	4.40E-16
		PG-RAD-11252020-1/UPWIND	4.63E-16
		PG-RAD-11252020-18/DOWNWIND	1.44E-16

SDG	Date Range	Sample ID	Result ($\mu\text{Ci/mL}$)
40798	12/07/20 - 12/12/20	Method Blank	6.910E-17
		PG-RAD-12122020-BLANK	1.21E-16
		PG-RAD-12122020-1/UPWIND	3.65E-16
		PG-RAD-12122020-18/DOWNWIND	1.31E-16
40877	12/14/20 - 12/18/20	PG-RAD-12182020-BLANK	6.38E-16
		PG-RAD-12182020-1/UPWIND	7.79E-16
		PG-RAD-12182020-18/DOWNWIND	7.92E-16
40901	12/21/20 - 12/22/20	PG-RAD-12222020-BLANK	1.92E-15
		PG-RAD-12222020-1/UPWIND	1.97E-15
		PG-RAD-12222020-18/DOWNWIND	1.29E-15
40982	01/05/21 - 01/08/21	PG-RAD-01082021-BLANK	6.48E-16
		PG-RAD-01082021-1/UPWIND	6.05E-16
		PG-RAD-01082021-18/DOWNWIND	1.05E-15
41038	01/11/21 - 01/15/21	PG-RAD-01152021-BLANK	3.66E-16
		PG-RAD-01152021-1/UPWIND	6.11E-16
		PG-RAD-01152021-18/DOWNWIND	3.73E-16
41108	01/20/21 - 01/22/21	Method Blank	1.889E-16
		PG-RAD-01222021-BLANK	1.51E-15
		PG-RAD-01222021-1/UPWIND	1.12E-15
		PG-RAD-01222021-18/DOWNWIND	8.49E-16
41247	02/08/21 - 02/12/21	PG-RAD-02122021-BLANK	4.81E-16
		PG-RAD-02122021-1/UPWIND	2.27E-16
		PG-RAD-02122021-18/DOWNWIND	5.48E-16
41385	02/15/21 - 02/19/21	PG-RAD-02192021-BLANK	5.24E-16
		PG-RAD-02192021-1/UPWIND	6.54E-16
		PG-RAD-02192021-18/DOWNWIND	5.40E-16
42284	05/24/21 - 05/28/21	PG-RAD-05282021-BLANK	1.26E-16
		PG-RAD-05282021-18/DOWNWIND	2.03E-16
42325	06/01/21 - 06/04/21	PG-RAD-06042021-BLANK	1.43E-16
		PG-RAD-06042021-1/UPWIND	2.25E-16
		PG-RAD-06042021-18/DOWNWIND	1.87E-16
42417	06/07/21 - 06/11/21	PG-RAD-06112021-BLANK	1.99E-16
		PG-RAD-06112021-1/UPWIND	1.87E-16
		PG-RAD-06112021-18/DOWNWIND	2.23E-16
42590	06/21/21 - 06/25/21	PG-RAD-06252021-BLANK	1.45E-16
		PG-RAD-06252021-1/UPWIND	1.51E-16
42684	06/28/21 - 07/02/21	PG-RAD-07022021-BLANK	1.46E-16
		PG-RAD-07022021-18/DOWNWIND	1.86E-16

SDG	Date Range	Sample ID	Result ($\mu\text{Ci/mL}$)
42709	07/06/21 - 07/09/21	PG-RAD-07092021-BLANK	3.59E-16
		PG-RAD-07092021-1A/UPWIND	1.90E-16
		PG-RAD-07092021-18/DOWNWIND	2.31E-16
42780	07/12/21 - 07/16/21	Method Blank	2.604E-16
		PG-RAD-07162021-BLANK	1.94E-16
		PG-RAD-07162021-1A/UPWIND	1.38E-16
42878	07/19/21 - 07/23/21	Method Blank	1.784E-16
		PG-RAD-07232021-BLANK	1.72E-16
		PG-RAD-07232021-1A/UPWIND	3.78E-16
		PG-RAD-07232021-18/DOWNWIND	1.34E-16
42947	07/26/21 - 07/30/21	Method Blank	1.021E-16
		PG-RAD-07302021-BLANK	1.18E-16
		PG-RAD-07302021-18/DOWNWIND	7.96E-17
43019	08/02/21 - 08/06/21	Method Blank	7.575E-17
		PG-RAD-08062021-BLANK	1.97E-16
		PG-RAD-08062021-1A/UPWIND	2.30E-16
43080	08/09/21 - 08/13/21	Method Blank	1.293E-16
		PG-RAD-08132021-BLANK	2.04E-16
		PG-RAD-08132021-1A/UPWIND	1.52E-16
43163	08/16/21 - 08/20/21	Method Blank	3.046E-16
		PG-RAD-08202021-BLANK	1.04E-16
		PG-RAD-08202021-1A/UPWIND	1.55E-16
		PG-RAD-08202021-18/DOWNWIND	1.57E-16
43260	08/23/21 - 08/27/21	Method Blank	1.396E-16
		PG-RAD-08272021-1A/UPWIND	1.39E-16
		PG-RAD-08272021-18/DOWNWIND	1.24E-16
43329	08/30/21 - 09/03/21	Method Blank	2.193E-16
		PG-RAD-09032021-BLANK	2.15E-16
		PG-RAD-09032021-18/DOWNWIND	3.02E-16
43382	09/07/21 - 09/10/21	PG-RAD-09102021-BLANK	2.29E-16
		PG-RAD-09102021-18/DOWNWIND	1.62E-16
43446	09/13/21 - 09/17/21	Method Blank	1.145E-16
		PG-RAD-09172021-BLANK	2.80E-16
		PG-RAD-09172021-1A/UPWIND	1.49E-16
		PG-RAD-09172021-18/DOWNWIND	2.36E-16
43514	09/20/21 - 09/24/21	Method Blank	1.397E-16
		PG-RAD-09242021-BLANK	1.68E-16
		PG-RAD-09242021-1A/UPWIND	2.56E-16
		PG-RAD-09242021-18/DOWNWIND	2.77E-16

SDG	Date Range	Sample ID	Result ($\mu\text{Ci/mL}$)
43577	09/27/21 - 10/01/21	PG-RAD-10012021-BLANK	2.08E-16
		PG-RAD-10012021-1A/UPWIND	1.02E-16
		PG-RAD-10012021-18/DOWNWIND	2.04E-16
43628	10/04/21 - 10/08/21	Method Blank	1.554E-16
		PG-RAD-10082021-BLANK	1.24E-16
		PG-RAD-10082021-1A/UPWIND	1.77E-16
43694	10/11/21 - 10/15/21	Method Blank	2.301E-16
		PG-RAD-10152021-BLANK	2.09E-16
		PG-RAD-10152021-1A/UPWIND	1.74E-16
		PG-RAD-1015021-18/DOWNWIND	1.50E-16
43889	11/01/21 - 11/05/21	Method Blank	3.263E-16
		PG-RAD-11052021-BLANK	2.07E-16
		PG-RAD-11052021-18/DOWNWIND	1.62E-16
43757	10/18/21 - 10/22/21	Method Blank	1.02E-16
		PG-RAD-10222021-18/DOWNWIND	2.17E-16
		PG-RAD-10222021-1A/UPWIND	1.56E-16
		PG-RAD-10222021-BLANK	1.70E-16
43813	10/25/21 - 10/27/21	Method Blank	2.043E-16
		PG-RAD-10272021-1A/UPWIND	4.54E-16
		PG-RAD-10272021-18/DOWNWIND	1.69E-16
		PG-RAD-10272021-BLANK	5.85E-16
43958	11/11/21 - 11/13/21	Method Blank	1.373E-16
		PG-RAD-11132021-1A/UPWIND	1.10E-16
		PG-RAD-11132021-18/DOWNWIND	1.61E-16
44012	11/18/21 - 11/20/21	Method Blank	1.244E-16
		PG-RAD-11202021-1A/UPWIND	9.72E-17
44225	12/06/21 - 12/10/21	Method Blank	1.367E-16
		PG-RAD-12102021-BLANK	1.95E-16
		PG-RAD-12102021-1A/UPWIND	1.86E-16
		PG-RAD-12102021-18/DOWNWIND	3.15E-16
45813	06/06/22 - 06/10/22	Method Blank	2.22E-16
		PG-RAD-06102022-METHOD BLANK	3.98E-17
		PG-RAD-06102022-1A/UPWIND	1.31E-16
		PG-RAD-06102022-18/DOWNWIND	2.24E-16
45950	06/13/22 - 06/17/22	Method Blank	3.00E-16
		PG-RAD-06172022-METHOD BLANK	1.59E-16
		PG-RAD-06172022-1A/UPWIND	1.79E-16
		PG-RAD-06172022-18/DOWNWIND	1.52E-16

SDG	Date Range	Sample ID	Result (μCi/mL)
46040	06/20/22 - 06/24/22	Method Blank	2.07E-16
		PG-RAD-06242022-METHOD BLANK	1.49E-16
		PG-RAD-06242022-1A/UPWIND	1.31E-16
		PG-RAD-06242022-18/DOWNWIND	9.16E-17
46103	06/27/22 - 07/01/22	Method Blank	1.58E-16
		PG-RAD-07012022-METHOD BLANK	1.27E-16
		PG-RAD-07012022-1A/UPWIND	1.37E-16
		PG-RAD-07012022-18/DOWNWIND	1.47E-16
²³⁵U/²³⁶U			
39450	09/08/20 - 09/11/20	PG-RAD-09112020-BLANK	2.04E-16
		PG-RAD-09112020-1/UPWIND	1.96E-16
39632	09/21/20 - 09/25/20	Method Blank	1.099E-16
		PG-RAD-09252020-1/UPWIND	1.59E-16
39752	09/28/20 - 10/02/20	PG-RAD-10022020-BLANK	1.04E-16
		PG-RAD-10022020-1/UPWIND	1.99E-16
40343	10/31/20 - 11/07/20	Method Blank	1.043E-16
		PG-RAD-11072020-1/UPWIND	8.82E-17
43080	08/09/21 - 08/13/21	PG-RAD-08132021-BLANK	1.33E-16
		PG-RAD-08132021-1A/UPWIND	1.29E-16
43382	09/07/21 - 09/10/21	Method Blank	2.053E-16
		PG-RAD-09102021-BLANK	1.11E-15
		PG-RAD-09102021-18/DOWNWIND	1.32E-16
43694	10/11/21 - 10/15/21	PG-RAD-10152021-BLANK	1.10E-16
		PG-RAD-1015021-18/DOWNWIND	7.69E-17
44225	12/06/21 - 12/10/21	PG-RAD-12102021-BLANK	1.20E-16
		PG-RAD-12102021-18/DOWNWIND	7.09E-17
44131	11/29/21 - 12/4/21	Method Blank	6.538E-17
		PG-RAD-12042021-BLANK	3.58E-15
		PG-RAD-12042021-1A/UPWIND	2.68E-15

Notes:
 μCi/mL microcurie per milliliter
⁹⁰Sr strontium-90
²²⁶Ra radium-226
²³²Th thorium-232
²³⁵U uranium-235
²³⁶U uranium-236
²³⁹Pu plutonium-239
²⁴⁰Pu plutonium-240
 SDG sample delivery group

Sample radiological results summarized in this section are greater than the minimum detectable concentration but less than 10 times the associated blank results. Sample results were qualified as estimated (JB).

Trace detections of ROCs, specifically ²³²Th, in filter field blanks and samples have been consistent throughout the sampling periods. Communications with the laboratory have also confirmed many filter media contain small amounts of NORM. In accordance with the lab recommendations, APTIM submits a blank filter (same lot/batch) as the samples for use as field method blank to account for NORM in the glass fiber filters used for sampling.

The following metals results were qualified “B” due to method blank contamination:

Table 6-5: Blank Discrepancies for PM10/Total Suspended Particulates/Metals/Asbestos

Analyte	Date Range	SDG	Sample ID	Result (µg/sample)	Final Result (µg/m ³)
Lead	10/12/20 - 10/16/20	41663	Method Blank	3.500 J	N/A
			PG-TSP101220-17ADOWNWIND	4.58 J	<0.007 B
	10/31/20 - 11/07/20	43457	Method Blank	5.395 J	N/A
			PG-TSP103120-1UPWIND	7.22 J	<0.028 B
			PG-TSP103120-18DOWNWIND	7.40 J	<0.027 B
			PG-TSP110220-18DOWNWIND	9.50 J	<0.007 B
			PG-TSP110320-18DOWNWIND	3.82 J	<0.007 B
			PG-TSP110420-18DOWNWIND	6.06 J	<0.007 B
			PG-TSP110520-18DOWNWIND	9.17 J	<0.007 B
	11/23/20 - 11/25/20	45096	Method Blank	5.960 J	N/A
			PG-TSP-112420-1UPWIND	10.2 J	<0.007 B
			PG-TSP-112520-1UPWIND	8.73 J	<0.022 B
			PG-TSP-112520-18DOWNWIND	4.93 J	<0.021 B
	01/11/21 - 01/15/21	48977	Method Blank	10.69	N/A
			PG-TSP011121-1UPWIND	19.0	<0.007 B
			PG-TSP011221-1UPWIND	19.8	<0.007 B
			PG-TSP011221-18DOWNWIND	17.7	<0.007 B
			PG-TSP011321-1UPWIND	14.1	<0.007 B
			PG-TSP011321-18DOWNWIND	17.1	<0.007 B
			PG-TSP011421-1UPWIND	10.6	<0.007 J B
PG-TSP011421-18DOWNWIND			15.6	<0.007 B	
PG-TSP011521-1UPWIND			13.4	<0.024 B	
PG-TSP011521-18DOWNWIND	9.79	<0.025 J B			

Analyte	Date Range	SDG	Sample ID	Result (µg/sample)	Final Result (µg/m ³)
Lead	02/04/21 - 02/05/21	50884	Method Blank	5.549	N/A
			PG-TSP020521-18DOWNWIND	8.42	<0.025 J B
	06/07/21 - 06/11/21	61970	Method Blank	7.660	N/A
			PG-TSP060821-18DOWNWIND	14.8	<0.007 B
			PG-TSP060921-18DOWNWIND	8.01 J	<0.007 J B
			PG-TSP061021-1UPWIND	12.6	<0.007 B
			PG-TSP061021-18DOWNWIND	8.77 J	<0.007 J B
	07/19/21 - 07/23/21	65855	Method Blank	5.863	N/A
			PG-TSP-072021-1UPWIND	10.9 J	<0.007 J B
			PG-TSP-072121-1UPWIND	9.52 J	<0.007 J B
			PG-TSP-072121-18DOWNWIND	10.7 J	<0.007 J B
			PG-TSP-072221-18DOWNWIND	6.88 J	<0.007 J B
	08/02/21 - 08/06/21	67117	Method Blank	3.521 J	N/A
			PG-TSP080521-18DOWNWIND	6.69 J	<0.007 J B
	08/09/21 - 08/13/21	67779	Method Blank	3.690 J	N/A
			PG-TSP080921-18DOWNWIND	3.77 J	<0.007 J B
			PG-TSP081321-18DOWNWIND	3.16 J	<0.021 J B
	08/16/21 - 08/20/21	68359	Method Blank	4.678 J	N/A
			PG-TSP081721-1AUPWIND	6.49 J	<0.007 J B
			PG-TSP081721-18DOWNWIND	5.51 J	<0.007 J B
			PG-TSP081821-18DOWNWIND	8.11 J	<0.007 J B
			PG-TSP081921-18DOWNWIND	8.06 J	<0.007 J B
			PG-TSP082021-1AUPWIND	4.13 J	<0.021 J B
	08/30/21 - 09/03/21	69697	Method Blank	6.111	N/A
			PG-TSP083021-1AUPWIND	6.79	<0.007 J B
			PG-TSP083121-1AUPWIND	3.32	<0.007 J B
			PG-TSP083121-18DOWNWIND	5.21	<0.008 J B
			PG-TSP090221-18DOWNWIND	6.73	<0.007 J B
	09/13/21 - 09/17/21	70985	Method Blank	3.668	N/A
			PG-TSP091321-18DOWNWIND	4.80	<0.007 J B
			PG-TSP091421-1AUPWIND	5.60	<0.007 J B
			PG-TSP091521-18DOWNWIND	4.98	<0.007 J B
	10/04/21 - 10/08/21	72975	Method Blank	5.124	N/A
			PG-TSP100521-18DOWNWIND	7.54	<0.007 J B
			PG-TSP100621-1AUPWIND	6.42	<0.007 J B
			PG-TSP100621-18DOWNWIND	3.98	<0.007 J B
			PG-TSP100721-18DOWNWIND	3.55	<0.007 J B
			PG-TSP100821-18DOWNWIND	9.13	<0.021 J B

Analyte	Date Range	SDG	Sample ID	Result (µg/sample)	Final Result (µg/m ³)
Manganese	12/14/20 - 12/18/20	47011	Method Blank	4.481	N/A
			PG-TSP121620-18DOWNWIND	4.68	<0.023 J B
			PG-TSP121820-18DOWNWIND	5.57	<0.020 J B
	02/04/21 - 02/05/21	50884	Method Blank	4.205	N/A
			PG-TSP020521-18DOWNWIND	6.30	<0.025 B
	02/08/21 - 02/12/21	51584	Method Blank	4.015 J	N/A
			PG-TSP021121-18DOWNWIND	5.25 J	<0.017 J B
			PG-TSP021221-18DOWNWIND	5.17 J	<0.012 J B
	06/28/21 - 07/02/21	63802	Method Blank	4.774 J	N/A
			PG-TSP063021-18DOWNWIND	7.31	<0.003 B
			PG-TSP070121-18DOWNWIND	7.72	<0.003 B
			PG-TSP070221-18DOWNWIND	9.19	<0.001 B
	07/06/21 - 07/09/21	64527	Method Blank	4.774 J	N/A
			PG-TSP070721-18DOWNWIND	8.60	<0.003 B
	06/20/22 - 06/24/22	101548	Method Blank	9.405 J	0.0058 J B
			PG-TSP062022-18DOWNWIND	N/A	0.012 J B
			PG-TSP062022-1AUPWIND	N/A	0.0412 B
			PG-TSP062122-18DOWNWIND	N/A	0.0151 B
			PG-TSP062122-1AUPWIND	N/A	0.0495 B
			PG-TSP062222-18DOWNWIND	N/A	0.0164 B
			PG-TSP062222-1AUPWIND	N/A	0.0757 B
			PG-TSP062322-18DOWNWIND	N/A	0.0155 B
			PG-TSP062322-1AUPWIND	N/A	0.0551 B
			PG-TSP062422-18DOWNWIND	N/A	0.0199 J B
	PG-TSP062422-1AUPWIND	N/A	0.0667 B		
	06/27/22 - 07/01/22	102245	Method Blank	6.889 J	0.0042 B
			PG-TSP062722-1AUPWIND	N/A	0.0112 B
			PG-TSP062722-18DOWNWIND	N/A	0.113 J B
			PG-TSP062822-1AUPWIND	N/A	0.0209 B
			PG-TSP062822-18DOWNWIND	N/A	0.00824 B
			PG-TSP062922-1AUPWIND	N/A	0.0611 J B
			PG-TSP062922-18DOWNWIND	N/A	0.0307 B
PG-TSP063022-1AUPWIND			N/A	0.00633 B	
PG-TSP063022-18DOWNWIND			N/A	0.0285 J B	
PG-TSP070122-1AUPWIND			N/A	0.0118 B	
PG-TSP070122-18DOWNWIND	N/A	0.0713 B			

Notes:
 µg/sample microgram per sample
 µg/m³ microgram per cubic meter
 < less than
 J the concentration is an estimated value

B compound was found in the blank and sample
 N/A not applicable
 PM10 particulate matter larger than 10 microns in size
 SDG sample delivery group

Sample results for metals that were detected less than the laboratory reporting limit (J-qualified) and were less than two times the associated blank results, were qualified as not detected at the reporting limit.

6.3 Laboratory Control Samples

LCSs were prepared and analyzed as required by the referenced methods. The percent recoveries for LCS, LCSD, and RPD were within control limits for all analytical batches containing the samples for this project with the exceptions noted as follows:

Table 6-6: Laboratory Control Spike/Laboratory Control Spike Duplicate Discrepancies

SDG	Date Range	Analyte	LCS/LCSD % Recovery	Control Limit	Qualifier
42325	06/01/21–06/04/21	⁹⁰ Sr	132%/125%	75%–125%	All strontium-90 results in the SDG were qualified as estimated (J) due to high LCS recovery. LCSD percent recovery; LCS/LCSD RER was acceptable
42417	06/07/21–06/11/21				

Notes:

% percent
⁹⁰Sr strontium-90
 LCS laboratory control spike
 LCSD laboratory control spike duplicate
 RER relative error ratio
 SDG sample delivery group

Even though the sample results above were qualified as estimated (J) the LCS/LCSD discrepancies were minor. The sample data usability is not affected.

6.4 Matrix Spikes/Matrix Spike Duplicates/Laboratory Duplicates

Laboratory quality control samples, MS/MSD, and laboratory duplicates were prepared using project samples. The percent recovery MS and MSD were all within the specified control limits, and the RPD between MS/MSD or sample/sample duplicate were within the specific precision control limit with the exceptions noted as follows:

Table 6-7: Matrix Spike/Matrix Spike Duplicate Discrepancies

SDG	Sample Spiked	Analyte	MS/MSD % Recovery	Control Limit	Qualifier
38566	PG-TSP090820-1UPWIND	Mn	68%/68%	75%–125%	All manganese results in the SDG were qualified as estimated (J) due to low MS and MSD recovery; matrix interference is suspected.
42858	PG-TSP102620-1UPWIND	Mn	71%/88%	75%–125%	All manganese results in the SDG were qualified as estimated (J) due to low MS recovery; matrix interference is suspected.
60822	PG-TSP-052421-1UPWIND	Pb	68%/70%	75%–125%	All lead results in the SDG were qualified as estimated (J) due to low MS and MSD recovery; matrix interference is suspected.
60822	PG-TSP-052421-1UPWIND	Mn	68%/71%	75%–125%	All manganese results in the SDG were qualified as estimated (J) due to low MS and MSD recovery; matrix interference is suspected.
62558	PG-TSP061421-1UPWIND	Pb	72%/72%	75%–125%	All lead results in the SDG were qualified as estimated (J) due to low MS and MSD recovery; matrix interference is suspected.

SDG	Sample Spiked	Analyte	MS/MSD % Recovery	Control Limit	Qualifier
69083	PG-TSP082321-1AUPWIND	Pb	73%/74%	75%–125%	All lead results in the SDG were qualified as estimated (J) due to low MS and MSD recovery; matrix interference is suspected.
69083	PG-TSP082321-1AUPWIND	Mn	67%/68%	75%–125%	All manganese results in the SDG were qualified as estimated (J) due to low MS and MSD recovery; matrix interference is suspected.
72975	PG-TSP100421-1AUPWIND	Pb	113%/84%	75%–125%	RPD fails (29 when limit is 20).
72975	PG-TSP100421-1AUPWIND	Mn	119%/84%	75%–125%	RPD fails (30 when limit is 20).
75083	PG-TSP102521-1AUPWIND	Pb Mn	70% 65%	75%–125% 75%–125%	MS only low recovery; MSD and RPD within control limits.
101548	PG-TSP062022-1AUPWIND	Pb	26% DU	≤20% RPD	All lead results in the SDG were qualified as estimated (J) due to laboratory duplicate RPD fail

Notes:

% percent
 DU sample duplicate
 Mn manganese
 MS matrix spike
 MSD matrix spike duplicate
 RPD relative percent difference
 SDG sample delivery group

Even though the sample results above were qualified as estimated (J) the MS/MSD discrepancies were minor and LCS/LCSD recoveries indicate acceptable analytical batch precision. The sample data usability is not affected.

6.5 Tracers (Radionuclides of Concern)

A tracer is either an isotope of the same element as the isotope of interest, or an isotope of an element different from the element of the isotope of interest, but one that behaves chemically very similar to the isotope of interest. Tracers are added to both field samples and batch quality control samples prior to sample preparation. The percent recovery of the tracer is used to normalize the measured activity of the isotope of interest.

The review indicated that tracer recoveries were within the established control limits with the exceptions noted as follows:

Table 6-8: Tracer Recovery Discrepancies

SDG	Sample	Analyte	Tracer Recovery	Control Limit	Qualifier
39450	PG-RAD-09112020-1/UPWIND	²³² Th	111%	40%–110%	Sample results were qualified as estimated (J) due to potential low bias reflected in high tracer recovery.
39383	PG-RAD-09042020-17/DOWNWIND	²³² U	112%	40%–110%	Sample results were qualified as estimated (J) due to potential low bias reflected in high tracer recovery.
39533	PG-RAD-09182020-1/UPWIND	²⁴² Pu	112%	40%–110%	Sample results were qualified as estimated (J) due to potential low bias reflected in high tracer recovery.
39533	PG-RAD-09182020-17A/DOWNWIND	²⁴² Pu	111%	40%–110%	Sample results were qualified as estimated (UJ) due to potential low bias reflected in high tracer recovery.
39632	PG-RAD-09252020-1/UPWIND	²⁴² Pu	112%	40%–110%	Sample results were qualified as estimated (UJ) due to potential low bias reflected in high tracer recovery.

SDG	Sample	Analyte	Tracer Recovery	Control Limit	Qualifier
39632	PG-RAD-09252020-17A/DOWNWIND	²⁴² Pu	111%	40%–110%	Sample results were qualified as estimated (UJ) due to potential low bias reflected in high tracer recovery.
39983	PG-RAD-10162020-BLANK	²⁴² Pu	111%	40%–110%	Sample results were qualified as estimated (J/UJ) due to potential low bias reflected in high tracer recovery.
40427	PG-RAD-11162020-1/UPWIND	²⁴² Pu	112%	40%–110%	Sample results were qualified as estimated (UJ) due to potential low bias reflected in high tracer recovery.
40701	PG-RAD-12052020-1/UPWIND	²⁴² Pu	111%	40%–110%	Sample results were qualified as estimated (UJ) due to potential low bias reflected in high tracer recovery.
40701	PG-RAD-12052020-18/DOWNWIND	²⁴² Pu	112%	40%–110%	Sample results were qualified as estimated (UJ) due to potential low bias reflected in high tracer recovery.
40901	PG-RAD-12222020-BLANK	²³² U	111%	30%–110%	Sample results were qualified as estimated (J/UJ) due to potential low bias reflected in high tracer recovery.
41247	PG-RAD-02122021-1/UPWIND	²³² U	114%	30%–110%	Sample results were qualified as estimated (UJ) due to potential low bias reflected in high tracer recovery.
42709	PG-RAD-07092021-18/DOWNWIND	²⁴² Pu	118%	30%–110%	Sample results were qualified as estimated UJ due to potential low bias reflected in high tracer recovery.

SDG	Sample	Analyte	Tracer Recovery	Control Limit	Qualifier
42709	PG-RAD-07092021-BLANK	²⁴² Pu	114%	30%–110%	Sample results were qualified as estimated (J/UJ) due to potential low bias reflected in high tracer recovery.
43382	PG-RAD-09102021-BLANK	⁹⁰ Sr	16.5%	40%–110%	Sample results were qualified as estimated (J/UJ) due to potential high bias reflected in low tracer recovery.
43382	PG-RAD-09102021-BLANK	⁹⁰ Sr	17.1%	40%–110%	Sample results were qualified as estimated (J/UJ) due to potential high bias reflected in low tracer recovery.

Notes:

%	percent
²³² Th	thorium-232
²³² U	uranium-232
²⁴² Pu	plutonium-242
SDG	sample delivery group

Although tracer recoveries were outside of specified control limits, the amount of exceedance was minor, the relative error ratio values were within laboratory control limits. Data usability was not affected.

6.6 Sensitivity

Reporting limits for results reported by the laboratory were sufficiently low enough for project decisions.

6.7 Completeness

The following subsections present a discussion of field and technical completeness for the sampling events.

Field completeness is based on the number of samples/analyses planned compared to the number of results obtained. Field completeness is 100 percent for TSP, PM10, and metals for the sampling completed between August 24, 2020 through October 15, 2021 and June 2, 2022 through July 1, 2022. Field completeness is 99 percent for asbestos

for the sampling between August 24, 2020 and October 15, 2021 due to sample loss (overload) caused by local forest fires in August through October 2020 and due to filter damage (spider on filter) on May 26, 2021. Field completeness is 98 percent for ROCs for the sampling between August 24, 2020 and October 15, 2021, due to sample loss caused by rain damage for the samples collected on January 25, 2021.

Technical completeness is a quantitative measure of the data usability based on the number of rejected data compared to the total number of sample results. The technical-completeness calculation considers data that are not rejected to be usable. The technical-completeness objective is 90 percent. As discussed in the previous subsection, sample results were qualified as estimated (J/UJ) due to method blank laboratory quality control outliers. However, the degree of the quality control exceedances was small and did not affect the data usability. The technical completeness was 100 percent for all analyses.

6.8 Summary and Statement of Data Usability

Based on the above data review there were no significant systematic problems identified with the analytical method performance. Although some results were flagged as estimated due to deficiencies, the data usability was not affected. Data meet the quality objectives for the intended use.

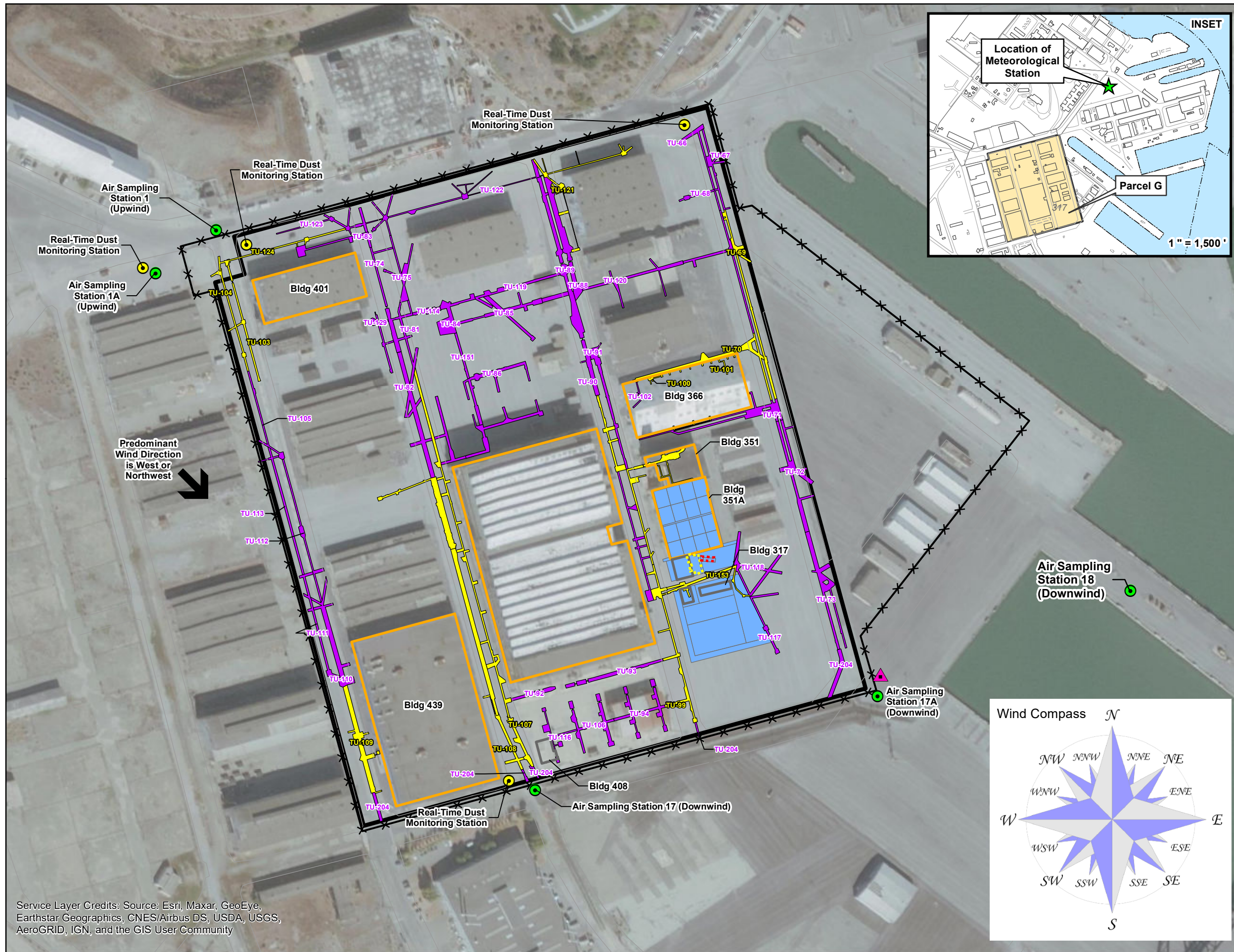
7.0 References

Aptim Federal Services, LLC, 2020, *Final, Revision 1, Parcel G Removal Site Evaluation Work Plan Addendum, Former Hunters Point Naval Shipyard, San Francisco, California*, July.

National Institute for Occupational Safety and Health, 1994, *NIOSH Manual of Analytical Methods*, Method 7400, August.

U.S. Environmental Protection Agency, 1999, *Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air*.

FIGURE



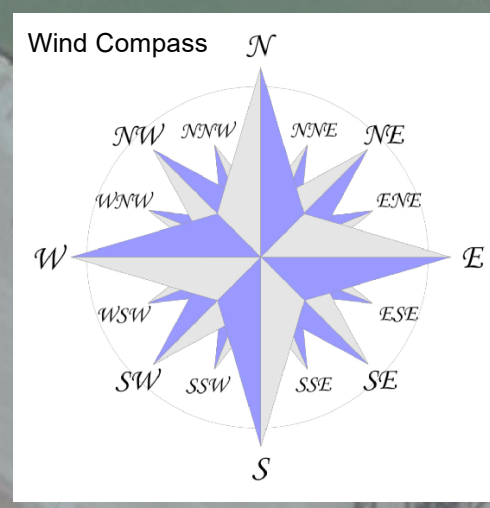
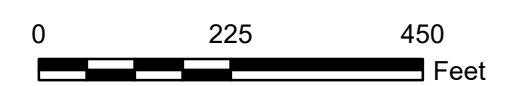
- Air Sampling Station (Worker Action Levels for COCs [Table 1] and Public Action Levels for ROCs [Table 2])
- Real-Time Dust Monitoring Station (Public Action Level for Dust [PM10] [Table 1])
- ▲ Windsock
- ✂ Work Area Boundary (Fence Line)
- Roads
- Parcel G Boundary
- Impacted Building
- Impacted Demolished Building
- Phase 1 Trench Unit
- Phase 2 Trench Unit
- Survey Unit
- Liquid Waste Transfer System Excavation Limits (to 10 ft bgs)
- Peanut Spill Excavation Limits (to 2 ft bgs)

Notes:

- 1) Air sampling will be performed at two stations, one upwind (Station 1) and one downwind (Station 17, 17A, or 18). Air sampling station locations represent potential locations and may be modified to accommodate changing site conditions and/or wind direction.
- 2) Additional dust monitoring locations may be established based on field activities.
- 3) COC - Chemical of Concern.
- 4) ROC - Radionuclide of Concern.



1 inch = 225 feet



Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

U.S. Department of the Navy
BRAC PMO West
San Diego, California

**FIGURE 1
PARCEL G
AIR SAMPLING AND DUST
MONITORING LOCATIONS**

INVESTIGATION, SURVEY, AND REPORTING AT PARCEL G
HUNTERS POINT NAVAL SHIPYARD, SAN FRANCISCO, CA

ATTACHMENT 1

AIR SAMPLING RESULTS

Attachment 1, Table 1: Ambient Pressure and Temperature Monitoring Results

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)	Wind Speed (mph)	Wind Direction
8/24/20	29.83	17.11	11.3	WNW
8/25/20	29.86	16.94	11.3	NW
8/26/20	29.85	15.06	6.1	WSW
8/27/20	29.82	15.00	5.8	SW
8/28/20	29.81	15.39	6.1	WSW
8/31/20	29.83	16.17	5.4	W
9/1/20	29.94	16.72	5.4	W
9/2/20	30.03	17.00	6.0	W
9/3/20	30.03	15.89	5.2	WSW
9/4/20	29.99	17.11	5.8	WSW
9/8/20	29.68	17.61	5.0	W
9/9/20	29.83	16.22	3.4	NW
9/10/20	30.00	16.56	2.4	NW
9/11/20	30.00	16.28	1.7	SSW
9/14/20	30.05	16.17	4.3	WSW
9/15/20	30.10	17.78	3.6	SW
9/16/20	30.07	19.83	3.2	W
9/17/20	30.02	17.83	4.6	WSW
9/18/20	30.04	19.33	4.8	WSW
9/21/20	29.91	17.39	4.9	WSW
9/22/20	30.03	17.78	6.2	W
9/23/20	30.07	18.83	5.7	WSW
9/24/20	30.03	18.72	5.2	WSW
9/25/20	30.01	17.83	5.0	W
9/28/20	29.89	23.94	9.6	WNW
9/29/20	30.00	16.44	12.7	WNW

Attachment 1, Table 1: Ambient Pressure and Temperature Monitoring Results

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)	Wind Speed (mph)	Wind Direction
9/30/20	30.04	19.22	8.3	WNW
10/1/20	29.96	22.28	4.7	N
10/2/20	29.94	19.61	7.4	WNW
10/5/20	30.00	14.89	9.5	WNW
10/6/20	29.97	14.33	12.5	WNW
10/7/20	29.93	15.06	13.3	WNW
10/8/20	29.95	16.50	10.5	W
10/9/20	29.95	16.83	6.2	WNW
10/12/20	30.07	19.17	6.0	WNW
10/13/20	30.06	19.78	7.1	WNW
10/14/20	30.06	21.94	6.3	WNW
10/15/20	29.97	24.44	4.0	N
10/16/20	29.94	25.72	7.5	SSE
10/19/20	29.96	16.61	10.7	WNW
10/20/20	29.88	17.78	7.2	WNW
10/21/20	29.80	18.11	8.5	WNW
10/22/20	29.84	16.11	9.3	WNW
10/23/20	29.96	15.50	7.7	WNW
10/24/20	29.96	15.39	6.6	W
10/26/20	30.10	18.22	12.5	NNE
10/27/20	30.07	18.72	6.1	N
10/28/20	30.06	16.39	5.4	WNW
10/29/20	30.05	15.28	6.0	N
10/30/20	30.05	13.39	9.8	WNW
10/31/20	30.07	15.00	6.0	WNW
11/2/20	3.07	15.44	7.9	WNW
11/3/20	30.08	13.44	12.9	WNW

Attachment 1, Table 1: Ambient Pressure and Temperature Monitoring Results

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)	Wind Speed (mph)	Wind Direction
11/4/20	30.19	15.56	8.5	WNW
11/5/20	30.04	16.61	8.6	WNW
11/6/20	29.77	13.78	17.2	WNW
11/7/20	29.72	12.39	12.8	WNW
11/9/20	30.21	11.22	2.8	SSW
11/10/20	30.26	11.39	2.8	SE
11/11/20	30.13	12.33	3.2	NNE
11/12/20	30.13	11.61	3.6	NE
11/13/20	30.17	12.22	5.0	SSW
11/16/20	30.06	15.06	2.1	SSE
11/17/20	29.94	14.94	6.5	SW
11/18/20	30.11	14.89	4.6	SW
11/19/20	30.32	12.28	2.3	S
11/20/20	30.29	12.56	2.5	NE
11/21/20	30.22	11.94	1.7	NE
11/23/20	30.08	12.39	2.1	SSW
11/24/20	30.16	11.61	2.6	SSW
11/25/20	30.25	12.11	3.7	SSW
11/30/20	30.31	10.83	1.5	S
12/1/20	30.24	10.94	1.3	S
12/2/20	30.16	12.33	2.1	NE
12/3/20	30.29	11.89	1.5	NE
12/4/20	30.29	11.61	0.9	S
12/5/20	30.29	10.61	2.0	S
12/7/20	30.22	15.39	4.1	NNE
12/8/20	30.19	12.78	0.9	NE
12/9/20	30.11	12.61	2.3	SSW

Attachment 1, Table 1: Ambient Pressure and Temperature Monitoring Results

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)	Wind Speed (mph)	Wind Direction
12/10/20	30.10	12.22	4.8	W
12/11/20	30.20	11.00	3.5	SSW
12/12/20	30.17	12.22	5.0	ENE
12/14/20	30.32	10.11	2.1	SSW
12/15/20	30.37	10.56	1.3	S
12/16/20	30.24	11.50	2.3	S
12/17/20	30.11	12.06	6.6	W
12/18/20	30.35	11.00	1.7	SSW
12/21/20	30.14	9.89	4.3	NNE
12/22/20	30.22	10.72	3.8	NNE
1/4/21	30.19	12.28	6.6	SW
1/5/21	30.31	9.83	2.6	N
1/6/21	30.28	9.28	2.2	SE
1/7/21	30.26	10.83	2.9	SE
1/8/21	30.32	11.06	2.3	N
1/11/21	30.29	10.56	3.2	NNE
1/12/21	30.35	11.33	1.3	SE
1/13/21	30.41	12.94	2.4	S
1/14/21	30.37	12.72	2.4	SSW
1/15/21	30.33	13.39	2.2	N
1/19/21	30.02	14.83	15.4	NNE
1/20/21	30.14	12.94	1.7	S
1/21/21	30.10	9.61	2.9	SW
1/22/21	29.95	10.11	3.9	SW
1/25/21	29.89	8.33	11.8	NW
2/4/21	30.30	11.17	3.3	NNE
2/5/21	30.25	10.72	2.0	WSW

Attachment 1, Table 1: Ambient Pressure and Temperature Monitoring Results

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)	Wind Speed (mph)	Wind Direction
2/8/21	30.02	10.11	3.5	SSW
2/9/21	30.08	11.39	3.2	SW
2/10/21	30.15	11.56	4.2	SW
2/11/21	30.10	10.89	4.3	SSW
2/12/21	30.09	11.61	7.2	WNW
2/15/21	30.14	11.94	6.3	W
2/16/21	30.21	10.67	3.8	SW
2/17/21	30.26	11.39	3.4	SSW
2/18/21	30.38	11.50	2.6	SSW
2/19/21	30.36	10.94	4.1	W
5/24/21	30.15	12.2	9.0	SW
5/25/21	30.12	12.7	5.8	WSW
5/26/21	30.12	12.5	7.1	W
5/27/21	30.15	11.7	6.9	W
5/28/21	30.09	11.8	5.8	WSW
6/1/21	30.00	13.7	9.0	W
6/2/21	29.99	12.7	7.5	W
6/3/21	29.92	14.5	6.0	W
6/4/21	30.00	12.8	8.8	SW
6/7/21	29.95	13.8	12.5	W
6/8/21	30.10	13.5	11.6	W
6/9/21	30.24	14.5	10.2	W
6/10/21	30.27	14.0	8.5	W
6/11/21	30.15	15.3	7.1	W
6/14/21	30.11	17.5	8.9	W
6/15/21	30.12	20.3	8.3	WSW
6/16/21	30.04	19.0	2.8	SW

Attachment 1, Table 1: Ambient Pressure and Temperature Monitoring Results

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)	Wind Speed (mph)	Wind Direction
6/17/21	29.85	21.5	4.5	W
6/18/21	29.77	17.7	7.4	W
6/21/21	29.98	16.7	6.7	WSW
6/22/21	29.96	18.1	5.8	SW
6/23/21	29.99	16.9	6.3	W
6/24/21	30.07	16.2	7.5	W
6/25/21	30.05	14.0	7.7	W
6/28/21	29.87	14.7	8.9	W
6/29/21	29.86	15.3	8.5	W
6/30/21	29.94	14.9	8.1	WSW
7/1/21	29.97	15.8	8.1	SW
7/2/21	29.98	15.6	7.4	SW
7/6/21	30.07	14.3	9.2	W
7/7/21	29.99	13.5	8.5	W
7/8/21	29.90	16.1	5.3	W
7/9/21	29.95	16.8	7.2	W
7/12/21	29.97	12.8	8.8	SW
7/13/21	29.97	13.4	7.9	SW
7/14/21	29.99	14.2	5.8	WSW
7/15/21	30.05	13.0	8.7	SW
7/16/21	30.00	13.1	6.2	SW
7/19/21	30.07	14.9	7.8	W
7/20/21	30.08	14.1	7.6	WSW
7/21/21	30.00	14.7	9.1	W
7/22/21	30.02	14.3	7.6	W
7/23/21	30.05	15.1	7.9	W
7/26/21	29.98	15.5	7.8	W

Attachment 1, Table 1: Ambient Pressure and Temperature Monitoring Results

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)	Wind Speed (mph)	Wind Direction
7/27/21	30.03	16.6	6.7	NW
7/28/21	30.08	16.6	6.9	W
7/29/21	29.99	16.5	8.5	W
7/30/21	29.99	15.1	9.2	W
8/2/21	30.12	16.6	7.1	W
8/3/21	30.10	14.3	6.2	WSW
8/4/21	30.05	16.5	10.5	W
8/5/21	30.08	15.7	7.9	WSW
8/6/21	30.01	18.7	8.1	W
8/9/21	29.96	17.2	4.8	W
8/10/21	29.98	16.9	7.7	W
8/11/21	30.03	16.0	7.3	W
8/12/21	30.04	17.3	7.8	WNW
8/13/21	30.11	16.7	8.2	W
8/16/21	29.87	16.4	8.9	W
8/17/21	29.84	16.2	7.2	SW
8/18/21	29.89	16.9	5.1	W
8/19/21	29.97	16.8	6.5	W
8/20/21	29.89	16.7	5.9	W
8/23/21	29.81	15.6	6.3	W
8/24/21	29.98	15.8	6.3	WSW
8/25/21	30.05	15.2	6.3	W
8/26/21	30.00	17.1	5.5	W
8/27/21	29.82	20.3	3.4	S
8/30/21	29.82	16.7	7.1	W
8/31/21	29.80	16.3	7.8	W
9/1/21	29.88	16.1	7.8	SW

Attachment 1, Table 1: Ambient Pressure and Temperature Monitoring Results

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)	Wind Speed (mph)	Wind Direction
9/2/21	30.00	15.0	8.4	WSW
9/3/21	30.01	14.7	6.7	W
9/7/21	30.01	16.5	6.8	WSW
9/8/21	29.92	18.3	9.2	W
9/9/21	29.91	15.7	7.5	WSW
9/10/21	30.04	15.4	6.5	W
9/13/21	29.93	16.8	8.0	W
9/14/21	29.94	15.4	6.4	SW
9/15/21	29.96	14.7	7.9	W
9/16/21	29.92	14.5	5.4	W
9/17/21	30.01	15.2	5.6	W
9/20/21	30.03	19.8	1.8	S
9/21/21	30.10	22.0	4.7	NNW
9/22/21	30.13	16.4	5.5	WNW
9/23/21	29.98	16.5	3.4	SSW
9/24/21	29.97	15.4	6.4	NW
9/27/21	30.11	16.6	4.9	SW
9/28/21	30.09	16.9	6.1	W
9/29/21	30.06	16.4	4.0	WSW
9/30/21	30.05	18.5	2.7	SSW
10/1/21	30.02	19.4	3.1	W
10/4/21	29.95	18.2	3.5	S
10/5/21	30.01	14.3	9.1	W
10/6/21	30.06	14.4	6.5	WSW
10/7/21	30.05	13.8	8.3	WSW
10/8/21	30.15	13.9	10.8	W
10/11/21	30.04	15.6	9.7	NW

Attachment 1, Table 1: Ambient Pressure and Temperature Monitoring Results

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)	Wind Speed (mph)	Wind Direction
10/12/21	30.09	15.8	9.8	N
10/13/21	30.07	13.0	4.8	W
10/14/21	30.14	14.5	1.6	SW
10/15/21	30.17	17.4	2.5	NE
10/18/21	30.08	12.8	7.0	W
10/19/21	30.05	13.6	3.4	S
10/20/21	30.11	15.1	5.3	ENE
10/21/21	30.12	17.6	5.1	SW
10/22/21	30.06	15.3	5.5	SW
10/25/21	29.88	14.6	6.4	WSW
10/26/21	30.24	15.1	3.3	SSW
10/27/21	30.34	16.5	2.4	SSW
10/28/21	30.18	17.5	2.3	SSW
10/29/21	30.04	15.3	2.3	S
11/1/21	30.10	16.0	4.7	S
11/2/21	30.24	16.2	3.6	NNE
11/3/21	30.19	16.2	1.6	ENE
11/4/21	30.19	16.4	4.4	W
11/5/21	30.15	14.1	2.8	SSW
11/8/21	30.16	12.0	3.9	SE
11/9/21	30.26	15.5	3.6	SE
11/10/21	30.36	15.1	2.5	NNE
11/11/21	30.31	15.6	2.1	NNE
11/12/21	30.27	16.3	3.0	NNE
11/15/21	30.17	13.5	4.2	NNE
11/16/21	30.14	14.2	2.8	NNE
11/17/21	30.11	14.3	1.9	SSW

Attachment 1, Table 1: Ambient Pressure and Temperature Monitoring Results

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)	Wind Speed (mph)	Wind Direction
11/18/21	30.16	12.9	2.6	NE
11/19/21	30.19	14.0	2.9	S
11/22/21	30.17	14.6	2.1	SSW
11/23/21	30.12	13.5	1.7	SSW
11/29/21	30.21	14.6	2.8	NNE
11/30/21	30.17	14.0	2.0	NNE
12/1/21	30.15	15.7	2.1	S
12/2/21	30.16	14.1	2.8	NNE
12/3/21	30.19	11.5	1.5	SSW
12/4/21	30.28	12.0	3.2	SSW
12/6/21	30.17	10.5	2.8	NNE
12/7/21	30.06	12.5	2.7	E
12/8/21	30.08	12.1	3.8	SW
12/9/21	30.05	11.5	5.4	WNW
12/10/21	30.26	10.3	3.2	NNE
6/2/22	29.88	12.8	11.2	W
6/3/22	29.90	14.8	6.9	W
6/6/22	29.96	15.3	9.0	WSW
6/7/22	29.95	14.0	4.2	W
6/8/22	29.93	14.8	4.2	W
6/9/22	29.88	20.5	3.5	W
6/10/22	29.92	21.2	2.9	WSW
6/13/22	29.99	16.7	6.1	W
6/14/22	29.96	17.2	7.3	W
6/15/22	29.90	14.9	9.9	W
6/16/22	29.87	14.4	11.3	W
6/17/22	29.91	14.5	8.3	W

Attachment 1, Table 1: Ambient Pressure and Temperature Monitoring Results

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)	Wind Speed (mph)	Wind Direction
6/20/22	29.98	18.3	5.78	WSW
6/21/22	29.85	25.6	3.89	NW
6/22/22	29.88	19.2	6.89	NW
6/23/22	29.87	16.3	7.38	WNW
6/24/22	29.86	15.6	7.57	WNW
6/27/22	30.05	14.4	9.33	W
6/28/22	30.04	15.3	9.25	W
6/29/22	30.03	13.7	9.65	WSW
6/30/22	30.04	13.0	8.73	WSW
7/1/22	30.01	13.1	8.73	WSW

Attachment 1, Table 1: Ambient Pressure and Temperature Monitoring Results

Notes:

Wind, ambient pressure and ambient temperature data were retrieved from on-site APTIM MET Station (8/26/20-8/28/20, 8/31/20-9/18/20, 11/9/20-10/15/21).

Wind, ambient pressure and ambient temperature data were retrieved from KSFO, San Francisco, San Francisco International Airport (8/24/20-8/25/20, 9/21/20-11/7/20).

°C - degrees Celsius

in Hg - inches of mercury

mph - miles per hour

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP	TSP Exceedance? (Yes/No)	Lead	Lead Exceedance? (Yes/No)	Manganese	Manganese Exceedance? (Yes/No)
			500		50		200	
			($\mu\text{g}/\text{m}^3$)		($\mu\text{g}/\text{m}^3$)		($\mu\text{g}/\text{m}^3$)	
Action Level			Units					
8/24/20	1Upwind	23.5	46.0	No	0.01	No	0.04	No
8/24/20	17Downwind	24.3	47.4	No	0.04	No	0.04	No
8/25/20	1Upwind	23.9	54.5	No	0.01	No	0.05	No
8/25/20	17Downwind	24.3	41.7	No	0.01	No	0.01	No
8/26/20	1Upwind	24.1	37.8	No	0.01 J	No	0.03	No
8/26/20	17Downwind	24.1	55.9	No	0.01	No	0.02	No
8/27/20	1Upwind	24.1	31.0	No	0.01	No	0.02	No
8/27/20	17Downwind	24.1	41.6	No	0.01	No	0.02	No
8/28/20	1Upwind	7.3	117	No	0.02 J	No	0.06	No
8/28/20	17Downwind	7.1	105.0	No	0.08	No	0.03	No
8/31/20	1Upwind	23.8	50.0	No	<0.01	No	0.02	No
8/31/20	17Downwind	23.7	47.4	No	0.01	No	0.02	No
9/1/20	1Upwind	24.2	63.8	No	0.01 J	No	0.05	No
9/1/20	17Downwind	24.1	56.1	No	0.02	No	0.03	No
9/2/20	1Upwind	23.6	51.0	No	0.003 J	No	0.04	No
9/2/20	17Downwind	23.6	50.2	No	0.005 J	No	0.03	No
9/3/20	1Upwind	23.9	43.4	No	<0.01	No	0.03	No
9/3/20	17Downwind	23.9	33.3	No	<0.01	No	0.02	No
9/4/20	1Upwind	8.3	46.3	No	<0.02	No	0.03	No
9/4/20	17Downwind	8.1	50.8	No	<0.02	No	0.03	No
9/8/20	1Upwind	23.9	108	No	0.01	No	0.31 J	No
9/8/20	17ADownwind	24.1	106	No	0.01 J	No	0.49 J	No
9/9/20	1Upwind	23.9	59.0	No	0.002 J	No	0.11 J	No
9/9/20	17ADownwind	24.0	62.4	No	<0.01	No	0.08 J	No
9/10/20	1Upwind	24.3	169	No	0.01	No	0.27 J	No
9/10/20	17ADownwind	24.2	20.2	No	0.01 J	No	0.25 J	No
9/11/20	1Upwind	7.5	225	No	0.01 J	No	0.29 J	No
9/11/20	17ADownwind	7.2	204	No	0.01 J	No	0.18 J	No
9/14/20	1Upwind	24.4	69.0	No	0.004 J	No	0.11	No
9/14/20	17ADownwind	24.4	93.0	No	0.008	No	0.08	No
9/15/20	1Upwind	23.8	62.3	No	0.007 J	No	0.08	No
9/15/20	17ADownwind	23.9	26.3	No	0.010	No	0.05	No
9/16/20	1Upwind	23.3	33.5	No	0.005 J	No	0.05	No
9/16/20	17ADownwind	23.7	12.3	No	<0.007	No	0.019	No
9/17/20	1Upwind	24.2	52.5	No	0.011	No	0.06	No
9/17/20	17ADownwind	24.3	22.5	No	0.012	No	0.03	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP	TSP Exceedance? (Yes/No)	Lead	Lead Exceedance? (Yes/No)	Manganese	Manganese Exceedance? (Yes/No)
			500		50		200	
			($\mu\text{g}/\text{m}^3$)		($\mu\text{g}/\text{m}^3$)		($\mu\text{g}/\text{m}^3$)	
Action Level								
Units								
9/18/20	1Upwind	8.1	39.5	No	0.02	No	0.05	No
9/18/20	17ADownwind	7.3	34.9	No	0.01 J	No	0.03	No
9/21/20	1Upwind	23.9	65.2	No	0.014	No	0.10	No
9/21/20	17ADownwind	24.2	36.1	No	0.009	No	0.03	No
9/22/20	1Upwind	23.4	44.3	No	0.008	No	0.04	No
9/22/20	17ADownwind	23.5	22.3	No	0.008	No	0.017	No
9/23/20	1Upwind	23.9	33.6	No	0.005 J	No	0.02	No
9/23/20	17ADownwind	24.7	19.8	No	0.004 J	No	0.014	No
9/24/20	1Upwind	24.3	19.6	No	0.002 J	No	0.021	No
9/24/20	17ADownwind	24.6	10.4	No	<0.007	No	0.005	No
9/25/20	1Upwind	3.8	79.8	No	<0.05	No	0.0	No
9/25/20	17ADownwind	7.1	53.2	No	<0.02	No	0.02	No
9/28/20	1Upwind	23.9	60.5	No	0.013	No	0.17	No
9/28/20	17ADownwind	23.8	58.7	No	0.003 J	No	0.15	No
9/29/20	1Upwind	24.2	37.2	No	<0.007	No	0.03	No
9/29/20	17ADownwind	24.0	30.3	No	0.007 J	No	0.02	No
9/30/20	1Upwind	24.5	41.3	No	0.006 J	No	0.03	No
9/30/20	17ADownwind	24.4	41.6	No	0.007	No	0.02	No
10/1/20	1Upwind	23.4	55.6	No	0.007 J	No	0.03	No
10/1/20	17ADownwind	23.9	65.2	No	<0.007	No	0.04	No
10/2/20	1Upwind	8.0	82.2	No	<0.022	No	0.04	No
10/2/20	17ADownwind	7.5	83.4	No	0.010 J	No	0.03	No
10/5/20	1Upwind	24.2	24.4	No	0.005 J	No	0.02	No
10/5/20	17ADownwind	24.3	23.0	No	0.004 J	No	0.02	No
10/6/20	1Upwind	24.5	39.5	No	0.009	No	0.03	No
10/6/20	17ADownwind	24.8	47.2	No	0.009	No	0.03	No
10/7/20	1Upwind	23.6	40.7	No	0.004 J	No	0.02	No
10/7/20	17ADownwind	23.6	36.5	No	<0.007	No	0.02	No
10/8/20	1Upwind	23.6	29.2	No	0.006 J	No	0.02	No
10/8/20	17ADownwind	23.2	20.6	No	0.003 J	No	0.01	No
10/9/20	1Upwind	8.0	14.2	No	0.009 J	No	0.02	No
10/9/20	17ADownwind	8.0	13.9	No	<0.022	No	0.02	No
10/12/20	1Upwind	23.9	33.2	No	0.006 J B	No	0.02	No
10/12/20	17ADownwind	23.9	28.8	No	<0.007 B	No	0.02	No
10/13/20	1Upwind	24.2	38.8	No	0.007 J B	No	0.03	No
10/13/20	17ADownwind	24.2	28.6	No	0.006 J B	No	0.02	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP	TSP Exceedance? (Yes/No)	Lead	Lead Exceedance? (Yes/No)	Manganese	Manganese Exceedance? (Yes/No)
			500		50		200	
			($\mu\text{g}/\text{m}^3$)		($\mu\text{g}/\text{m}^3$)		($\mu\text{g}/\text{m}^3$)	
Action Level			Units					
10/14/20	1Upwind	23.8	46.8	No	0.024 B	No	0.04	No
10/14/20	17ADownwind	24.0	41.1	No	0.030 B	No	0.04	No
10/15/20	1Upwind	23.8	101	No	0.017 B	No	0.14	No
10/15/20	17ADownwind	24.1	94.2	No	0.012 B	No	0.16	No
10/16/20	1Upwind	8.1	48.4	No	<0.022	No	0.24	No
10/16/20	17ADownwind	7.6	57.3	No	0.014 J B	No	0.11	No
10/19/20	1Upwind	23.5	41.6	No	0.009	No	0.03 B	No
10/19/20	17ADownwind	24.3	38.2	No	0.008	No	0.02 B	No
10/20/20	1Upwind	24.0	42.3	No	0.007 J	No	0.03 B	No
10/20/20	17ADownwind	23.6	30.0	No	0.005 J	No	0.02 B	No
10/21/20	1Upwind	24.0	56.2	No	0.007 J	No	0.03 B	No
10/21/20	17ADownwind	24.0	55.7	No	0.009	No	0.02 B	No
10/22/20	1Upwind	24.1	92.1	No	0.012	No	0.07 B	No
10/22/20	17ADownwind	24.1	56.8	No	0.006 J	No	0.03 B	No
10/23/20	1Upwind	7.9	237	No	0.035	No	0.20 B	No
10/23/20	17ADownwind	7.8	138	No	0.019 J	No	0.10 B	No
10/24/20	1Upwind	8.3	102	No	0.008 J	No	0.03 B	No
10/24/20	17ADownwind	8.4	39.3	No	0.022	No	0.10 B	No
10/26/20	1Upwind	24.0	63.1	No	0.008	No	0.16 J	No
10/26/20	17ADownwind	23.5	53.8	No	0.002 J	No	0.13 J	No
10/27/20	1Upwind	23.7	53.2	No	0.003 J	No	0.02 J	No
10/27/20	17ADownwind	23.7	47.2	No	0.007 J	No	0.05 J	No
10/28/20	1Upwind	24.2	71.1	No	0.007 J	No	0.10 J	No
10/28/20	17ADownwind	24.2	64.4	No	0.003 J	No	0.09 J	No
10/29/20	1Upwind	23.8	61.9	No	0.009	No	0.08 J	No
10/29/20	17ADownwind	24.3	52.2	No	0.002 J	No	0.04 J	No
10/30/20	1Upwind	25.5	67.0	No	0.007 J	No	0.03 J	No
10/30/20	17ADownwind	23.4	37.6	No	0.004 J	No	0.03 J	No
10/31/20	1Upwind	6.4	37.3	No	<0.028 B	No	0.06	No
10/31/20	18Downwind	6.5	34.4	No	<0.027 B	No	0.06	No
11/2/20	1Upwind	24.1	80.3	No	0.016 B	No	0.07	No
11/2/20	18Downwind	24.1	32.0	No	<0.007 B	No	0.03	No
11/3/20	1Upwind	24.2	53.4	No	0.011 B	No	0.04	No
11/3/20	18Downwind	24.2	15.7	No	<0.007 B	No	0.01	No
11/4/20	1Upwind	23.9	8.62	No	<0.007	No	0.01	No
11/4/20	18Downwind	23.9	21.1	No	<0.007 B	No	0.02	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP	TSP Exceedance? (Yes/No)	Lead	Lead Exceedance? (Yes/No)	Manganese	Manganese Exceedance? (Yes/No)
			500		50		200	
			(µg/m ³)		(µg/m ³)		(µg/m ³)	
			Action Level					
			Units					
11/5/20	1Upwind	24.1	78.2	No	0.011 B	No	0.05	No
11/5/20	18Downwind	24.1	27.7	No	<0.007 B	No	0.02	No
11/6/20	1Upwind	23.7	101	No	0.017 B	No	0.07	No
11/6/20	18Downwind	24.2	24.8	No	0.007 J B	No	0.01	No
11/7/20	1Upwind	7.2	20.9	No	<0.025	No	0.03	No
11/7/20	18Downwind	6.7	<1.63	No	<0.026	No	0.02	No
11/9/20	1Upwind	23.8	31.1	No	0.034	No	0.03	No
11/9/20	18Downwind	23.9	19.6	No	0.003 J	No	0.01	No
11/10/20	1Upwind	23.8	25.3	No	0.004 J	No	0.02	No
11/10/20	18Downwind	24.1	18.1	No	<0.007	No	0.01	No
11/11/20	1Upwind	24.2	25.7	No	0.003 J	No	0.02	No
11/11/20	18Downwind	23.9	26.6	No	0.003 J	No	0.02	No
11/12/20	1Upwind	24.1	21.0	No	0.002 J	No	0.01	No
11/12/20	18Downwind	24.0	28.6	No	<0.007	No	0.02	No
11/13/20	1Upwind	5.8	8.25	No	0.008 J	No	0.01 J	No
11/13/20	18Downwind	5.8	3.94	No	<0.031	No	<0.02	No
11/16/20	1Upwind	24.6	98.0	No	0.011	No	0.04	No
11/16/20	18Downwind	24.6	70.9	No	0.005 J	No	0.02	No
11/17/20	1Upwind	27.1	8.51	No	0.004 J	No	0.01	No
11/17/20	18Downwind	27.1	<1.63	No	<0.007	No	0.002 J	No
11/18/20	1Upwind	24.1	28.3	No	0.005 J	No	0.01	No
11/18/20	18Downwind	24.0	10.1	No	0.003 J	No	0.003 J	No
11/19/20	1Upwind	24.5	28.7	No	0.007 J	No	0.02	No
11/19/20	18Downwind	24.4	31.7	No	0.005 J	No	0.01	No
11/20/20	1Upwind	23.6	59.2	No	0.006 J	No	0.02	No
11/20/20	18Downwind	23.7	39.0	No	0.008	No	0.01	No
11/21/20	1Upwind	6.5	109	No	0.018 J	No	0.02	No
11/21/20	18Downwind	6.6	191	No	0.014 J	No	<0.01	No
11/23/20	1Upwind	24.1	9.88	No	0.009 B	No	0.01	No
11/23/20	18Downwind	24.0	13.6	No	0.008 B	No	0.01	No
11/24/20	1Upwind	24.5	20.8	No	<0.007 B	No	0.03	No
11/24/20	18Downwind	24.6	7.72	No	0.008 B	No	0.01	No
11/25/20	1Upwind	8.0	33.1	No	<0.022 B	No	0.03	No
11/25/20	18Downwind	8.3	ND	No	<0.021 B	No	0.01 J	No
11/30/20	1Upwind	23.1	56.7	No	0.009	No	0.03	No
11/30/20	18Downwind	23.9	23.3	No	0.004 J	No	0.01	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP	TSP Exceedance? (Yes/No)	Lead	Lead Exceedance? (Yes/No)	Manganese	Manganese Exceedance? (Yes/No)
			500		50		200	
			($\mu\text{g}/\text{m}^3$)		($\mu\text{g}/\text{m}^3$)		($\mu\text{g}/\text{m}^3$)	
			Action Level					
			Units					
12/1/20	1Upwind	23.4	44.2	No	0.012	No	0.03	No
12/1/20	18Downwind	24.0	25.9	No	0.005 J	No	0.01	No
12/2/20	1Upwind	24.3	18.0	No	0.003 J	No	0.01	No
12/2/20	18Downwind	24.4	28.7	No	0.007 J	No	0.01	No
12/3/20	1Upwind	23.7	91.1	No	0.015	No	0.06	No
12/3/20	18Downwind	23.5	96.9	No	0.009	No	0.06	No
12/4/20	1Upwind	23.8	64.1	No	0.015	No	0.05	No
12/4/20	18Downwind	24.1	61.4	No	0.007 J	No	0.03	No
12/5/20	1Upwind	7.1	51.6	No	0.011 J	No	0.03	No
12/5/20	18Downwind	7.1	48.7	No	0.013 J	No	0.02	No
12/7/20	1Upwind	23.9	64.3	No	0.019	No	0.08	No
12/7/20	18Downwind	23.9	50.0	No	0.017	No	0.06	No
12/8/20	1Upwind	24.1	98.7	No	0.029	No	0.09	No
12/8/20	18Downwind	24.0	44.6	No	0.004 J	No	0.03	No
12/9/20	1Upwind	23.8	109	No	0.022	No	0.09	No
12/9/20	18Downwind	23.9	76.4	No	0.013	No	0.05	No
12/10/20	1Upwind	24.0	101	No	0.018	No	0.07	No
12/10/20	18Downwind	24.1	47.5	No	0.008	No	0.02	No
12/11/20	1Upwind	8.8	76.4	No	0.021	No	0.06	No
12/11/20	18Downwind	9.0	20.6	No	0.009 J	No	0.01	No
12/12/20	1Upwind	7.2	ND	No	<0.024	No	0.01 J	No
12/12/20	18Downwind	7.3	ND	No	0.007 J	No	0.01 J	No
12/14/20	1Upwind	24.1	52.2	No	0.010	No	0.04 B	No
12/14/20	18Downwind	24.1	20.5	No	<0.007	No	0.01 B	No
12/15/20	1Upwind	24.1	55.8	No	0.009	No	0.04 B	No
12/15/20	18Downwind	24.0	22.0	No	0.002 J	No	0.01 B	No
12/16/20	1Upwind	7.6	54.1	No	0.012 J	No	0.05 B	No
12/16/20	18Downwind	7.7	21.1	No	<0.023	No	<0.02 J B	No
12/17/20	1Upwind	24.3	63.3	No	0.008	No	0.03 B	No
12/17/20	18Downwind	24.2	18.5	No	0.007	No	0.01 B	No
12/18/20	1Upwind	8.7	53.6	No	0.015 J	No	0.05 B	No
12/18/20	18Downwind	8.7	5.59	No	<0.020	No	<0.02 J B	No
12/21/20	1Upwind	23.6	51.1	No	0.008	No	0.04	No
12/21/20	18Downwind	23.6	19.3	No	0.007 J	No	0.01	No
12/22/20	1Upwind	3.6	<12.2	No	<0.049	No	0.03	No
12/22/20	18Downwind	3.6	<12.3	No	<0.049	No	<0.02	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP	TSP Exceedance? (Yes/No)	Lead	Lead Exceedance? (Yes/No)	Manganese	Manganese Exceedance? (Yes/No)
			500		50		200	
			($\mu\text{g}/\text{m}^3$)		($\mu\text{g}/\text{m}^3$)		($\mu\text{g}/\text{m}^3$)	
Action Level								
Units								
12/23/20	1Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
12/23/20	18Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
12/28/20	1Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
12/28/20	18Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
12/29/20	1Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
12/29/20	18Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
12/30/20	1Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
12/30/20	18Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
12/31/20	1Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
12/31/20	18Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
1/4/21	1Upwind	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1
1/4/21	18Downwind	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1
1/5/21	1Upwind	24.0	44.9	No	0.003 J	No	0.03	No
1/5/21	18Downwind	23.9	23.0	No	<0.007	No	0.01	No
1/6/21	1Upwind	4.3	18.7	No	<0.042	No	0.02 J	No
1/6/21	18Downwind	4.5	19.0	No	<0.039	No	<0.02	No
1/7/21	1Upwind	23.7	105	No	0.003 J	No	0.01	No
1/7/21	18Downwind	23.8	20.2	No	0.006 J	No	0.01	No
1/8/21	1Upwind	2.6	<1.85	No	<0.068	No	<0.03	No
1/8/21	18Downwind	2.6	<17.1	No	<0.068	No	<0.03	No
1/11/21	1Upwind	23.8	56.8	No	<0.007 B	No	0.03 B	No
1/11/21	18Downwind	24.2	27.5	No	0.015 B	No	0.01 B	No
1/12/21	1Upwind	24.3	44.7	No	<0.007 B	No	0.02 B	No
1/12/21	18Downwind	23.9	33.2	No	<0.007 B	No	0.01 B	No
1/13/21	1Upwind	24.0	27.7	No	<0.007 B	No	0.01 B	No
1/13/21	18Downwind	24.0	20.8	No	<0.007 B	No	0.01 B	No
1/14/21	1Upwind	23.6	43.6	No	<0.007 J B	No	0.02 B	No
1/14/21	18Downwind	24.1	35.6	No	<0.007 B	No	0.01 B	No
1/15/21	1Upwind	7.3	54.6	No	<0.024 B	No	0.03 B	No
1/15/21	18Downwind	7.0	57.9	No	<0.025 J B	No	0.03 B	No
1/19/21	1Upwind	23.5	78.2	No	0.005 J	No	0.06	No
1/19/21	18Downwind	23.4	95.5	No	<0.008	No	0.05	No
1/20/21	1Upwind	24.1	111	No	0.008	No	0.06	No
1/20/21	18Downwind	24.2	68.9	No	0.003 J	No	0.04	No
1/21/21	1Upwind	9.5	204	No	0.012 J	No	0.13	No
1/21/21	18Downwind	9.1	54.2	No	0.005 J	No	0.03	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP	TSP Exceedance? (Yes/No)	Lead	Lead Exceedance? (Yes/No)	Manganese	Manganese Exceedance? (Yes/No)
			500		50		200	
			(µg/m ³)		(µg/m ³)		(µg/m ³)	
			Action Level					
			Units					
1/22/21	1Upwind	3.8	36.2	No	<0.047	No	0.02	No
1/22/21	18Downwind	3.5	<12.6	No	<0.050	No	0.02	No
1/25/21	1Upwind	23.7	127.0	No	0.010	No	0.08	No
1/25/21	18Downwind	23.7	25.0	No	0.006 J	No	0.01	No
1/26/21	1Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
1/26/21	18Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
1/27/21	1Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
1/27/21	18Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
1/28/21	1Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
1/28/21	18Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
1/29/21	1Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
1/29/21	18Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
2/1/21	1Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
2/1/21	18Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
2/2/21	1Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
2/2/21	18Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
2/3/21	1Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
2/3/21	18Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
2/4/21	1Upwind	24.1	73.4	No	0.008 B	No	0.04 B	No
2/4/21	18Downwind	24.2	17.3	No	0.077 B	No	0.01 B	No
2/5/21	1Upwind	7.6	113	No	0.024 B	No	0.06 B	No
2/5/21	18Downwind	7.1	15.2	No	<0.025 J B	No	<0.02 B	No
2/8/21	1Upwind	23.2	86.4	No	0.038	No	0.08 B	No
2/8/21	18Downwind	23.3	23.4	No	<0.008	No	0.01 B	No
2/9/21	1Upwind	23.6	69.7	No	0.008	No	0.04 B	No
2/9/21	18Downwind	23.7	17.8	No	0.005 J	No	0.01 B	No
2/10/21	1Upwind	23.8	156	No	0.017	No	0.09 B	No
2/10/21	18Downwind	24.2	17.1	No	<0.007	No	0.01 B	No
2/11/21	1Upwind	5.4	363	No	0.046	No	0.33 B	No
2/11/21	18Downwind	5.2	16.5	No	<0.034	No	<0.02 J B	No
2/12/21	1Upwind	7.7	229	No	0.026	No	0.18 B	No
2/12/21	18Downwind	7.2	11.2	No	0.012 J	No	<0.01 J B	No
2/15/21	1Upwind	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1
2/15/21	18Downwind	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1
2/16/21	1Upwind	24.5	176	No	0.015	No	0.11	No
2/16/21	18Downwind	24.0	25.9	No	0.008	No	0.01	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP	TSP Exceedance? (Yes/No)	Lead	Lead Exceedance? (Yes/No)	Manganese	Manganese Exceedance? (Yes/No)
			500		50		200	
			($\mu\text{g}/\text{m}^3$)		($\mu\text{g}/\text{m}^3$)		($\mu\text{g}/\text{m}^3$)	
Action Level								
Units								
5/24/21	1Upwind	18.4	53.4	No	0.004 J	No	0.02 J	No
5/24/21	18Downwind	18.2	24.3	No	0.007 J	No	0.01 J	No
5/25/21	1Upwind	24.0	57.3	No	0.005 J	No	0.02 J	No
5/25/21	18Downwind	24.0	31.6	No	0.003 J	No	0.01 J	No
5/26/21	1Upwind	24.0	83.3	No	0.010 J	No	0.03 J	No
5/26/21	18Downwind	24.0	38.3	No	0.002 J	No	0.01 J	No
5/27/21	1Upwind	23.9	50.9	No	0.007 J	No	0.02 J	No
5/27/21	18Downwind	23.9	21.2	No	0.004 J	No	0.01 J	No
5/28/21	1Upwind	7.9	54.8	No	0.011 J	No	0.01 J	No
5/28/21	18Downwind	7.5	37.8	No	<0.024 J	No	<0.01 J	No
6/1/21	1Upwind	23.7	24.5	No	0.006 J	No	0.01	No
6/1/21	18Downwind	24.1	21.3	No	0.003 J	No	0.01	No
6/2/21	1Upwind	23.9	<1.85	No	<0.007	No	0.00	No
6/2/21	18Downwind	24.0	25.0	No	<0.007	No	0.01	No
6/3/21	1Upwind	24.1	39.4	No	0.005 J	No	0.01	No
6/3/21	18Downwind	24.0	29.2	No	0.002 J	No	0.01	No
6/4/21	1Upwind	8.0	56.8	No	<0.022	No	0.04	No
6/4/21	18Downwind	7.7	30.9	No	<0.023	No	0.01 J	No
6/7/21	1Upwind	24.1	86.9	No	0.022 B	No	0.05 B	No
6/7/21	18Downwind	24.1	50.4	No	0.014 B	No	0.03 B	No
6/8/21	1Upwind	24.0	28.4	No	0.014 B	No	0.02 B	No
6/8/21	18Downwind	24.1	21.7	No	<0.007 B	No	0.02 B	No
6/9/21	1Upwind	24.1	29.6	No	0.019 B	No	0.01 B	No
6/9/21	18Downwind	24.0	20.0	No	<0.007 J B	No	0.02 B	No
6/10/21	1Upwind	23.9	40.5	No	<0.007 B	No	0.05 B	No
6/10/21	18Downwind	24.0	17.3	No	<0.007 J B	No	0.01 B	No
6/11/21	1Upwind	8.3	29.2	No	<0.021	No	0.02 B	No
6/11/21	18Downwind	8.2	21.6	No	<0.022	No	0.02 B	No
6/14/21	1Upwind	23.6	22.5	No	0.004 J	No	0.01	No
6/14/21	18Downwind	23.9	35.2	No	<0.007 J	No	0.01	No
6/15/21	1Upwind	23.9	33.2	No	0.006 J	No	0.01	No
6/15/21	18Downwind	24.0	40.6	No	0.003 J	No	0.01	No
6/16/21	1Upwind	24.1	38.5	No	0.005 J	No	0.01	No
6/16/21	18Downwind	24.0	42.8	No	0.008 J	No	0.01	No
6/17/21	1Upwind	24.1	58.3	No	0.012 J	No	0.01	No
6/17/21	18Downwind	24.1	49.1	No	<0.007 J	No	0.01	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP	TSP Exceedance? (Yes/No)	Lead	Lead Exceedance? (Yes/No)	Manganese	Manganese Exceedance? (Yes/No)
			500		50		200	
			(µg/m ³)		(µg/m ³)		(µg/m ³)	
			Action Level					
			Units					
6/18/21	1Upwind	8.1	73.9	No	0.016 J	No	0.01	No
6/18/21	18Downwind	8.1	70.0	No	<0.022 J	No	0.02	No
6/21/21	1Upwind	23.7	31.6	No	<0.007	No	0.01	No
6/21/21	18Downwind	23.8	16.4	No	<0.007	No	0.01	No
6/22/21	1Upwind	24.0	23.4	No	0.005 J	No	0.01	No
6/22/21	18Downwind	24.0	12.9	No	<0.007	No	0.004	No
6/23/21	1Upwind	24.0	42.9	No	0.005 J	No	0.02	No
6/23/21	18Downwind	24.0	14.4	No	<0.007	No	0.01	No
6/24/21	1Upwind	24.1	35.4	No	0.003 J	No	0.02	No
6/24/21	18Downwind	24.1	7.09	No	0.002 J	No	0.005	No
6/25/21	1Upwind	8.2	29.9	No	<0.022	No	0.01	No
6/25/21	18Downwind	7.9	29.1	No	<0.022	No	0.01	No
6/28/21	1Upwind	24.0	33.7	No	0.012	No	0.02 B	No
6/28/21	18Downwind	24.0	21.2	No	0.009	No	0.01 B	No
6/29/21	1Upwind	24.1	30.5	No	0.009	No	0.01 B	No
6/29/21	18Downwind	24.0	23.8	No	0.005 J	No	0.01 B	No
6/30/21	1Upwind	23.8	18.1	No	<0.007	No	0.01 B	No
6/30/21	18Downwind	23.9	9.93	No	<0.007	No	<0.003 B	No
7/1/21	1Upwind	24.0	22.7	No	0.006 J	No	0.02 B	No
7/1/21	18Downwind	24.0	8.39	No	<0.007	No	<0.003 B	No
7/2/21	1Upwind	8.2	31.8	No	0.016 J	No	0.02 B	No
7/2/21	18Downwind	7.9	20.0	No	0.018 J	No	<0.01 B	No
7/6/21	1AUpwind	22.5	41.2	No	0.006 J	No	0.02 B	No
7/6/21	18Downwind	23.0	23.8	No	0.004 J	No	0.01 B	No
7/7/21	1AUpwind	24.1	36.9	No	0.010	No	0.01 B	No
7/7/21	18Downwind	24.1	30.7	No	0.005 J	No	<0.003 B	No
7/8/21	1AUpwind	24.0	39.4	No	0.013	No	0.01 B	No
7/8/21	18Downwind	23.9	39.7	No	0.008	No	0.01 B	No
7/9/21	1AUpwind	8.2	52.9	No	0.007 J	No	0.02 B	No
7/9/21	18Downwind	7.9	55.4	No	<0.022	No	0.02 B	No
7/12/21	1AUpwind	23.7	25.5	No	0.003 J	No	0.01	No
7/12/21	18Downwind	23.4	22.3	No	<0.008	No	0.004	No
7/13/21	1AUpwind	24.1	23.2	No	<0.007	No	0.01	No
7/13/21	18Downwind	24.1	16.1	No	0.002 J	No	0.003 J	No
7/14/21	1AUpwind	24.2	25.3	No	0.006 J	No	0.01	No
7/14/21	18Downwind	23.8	16.9	No	0.003 J	No	0.003 J	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP	TSP Exceedance? (Yes/No)	Lead	Lead Exceedance? (Yes/No)	Manganese	Manganese Exceedance? (Yes/No)
			500		50		200	
			($\mu\text{g}/\text{m}^3$)		($\mu\text{g}/\text{m}^3$)		($\mu\text{g}/\text{m}^3$)	
Action Level								
Units								
7/15/21	1AUpwind	24.1	40.1	No	0.004 J	No	0.01	No
7/15/21	18Downwind	24.1	20.7	No	<0.007	No	0.003 J	No
7/16/21	1AUpwind	8.1	34.0	No	<0.022	No	<0.01	No
7/16/21	18Downwind	7.9	34.8	No	0.007 J	No	<0.01	No
7/19/21	1AUpwind	24.1	65.9	No	0.010 B	No	0.024	No
7/19/21	18Downwind	24.1	39.6	No	0.007 B	No	0.013	No
7/20/21	1AUpwind	23.7	32.9	No	<0.007 J B	No	0.011	No
7/20/21	18Downwind	24.1	26.5	No	0.008 B	No	0.006	No
7/21/21	1AUpwind	24.2	52.3	No	<0.007 J B	No	0.014	No
7/21/21	18Downwind	23.8	43.8	No	<0.007 J B	No	0.008	No
7/22/21	1AUpwind	23.9	58.8	No	0.008 B	No	0.019	No
7/22/21	18Downwind	23.9	43.6	No	<0.007 J B	No	0.009	No
7/23/21	1AUpwind	7.7	62.1	No	<0.023 J B	No	0.028	No
7/23/21	18Downwind	8.0	46.1	No	<0.022	No	0.015	No
7/26/21	1AUpwind	23.5	27.3	No	0.003 J	No	0.011	No
7/26/21	18Downwind	23.8	20.3	No	<0.007	No	0.007	No
7/27/21	1AUpwind	24.0	47.8	No	0.008	No	0.021	No
7/27/21	18Downwind	23.7	20.3	No	0.009	No	0.008	No
7/28/21	1AUpwind	24.2	29.8	No	0.003 J	No	0.013	No
7/28/21	18Downwind	24.2	14.8	No	<0.007	No	0.006	No
7/29/21	1AUpwind	23.9	19.6	No	0.002 J	No	0.008	No
7/29/21	18Downwind	23.9	12.8	No	0.005 J	No	0.004	No
7/30/21	1AUpwind	7.8	33.2	No	<0.023	No	0.018	No
7/30/21	18Downwind	8.1	20.7	No	0.007 J	No	0.010 J	No
8/2/21	1AUpwind	23.9	21.3	No	0.007 J B	No	0.012	No
8/2/21	18Downwind	23.9	14.6	No	0.008 B	No	0.012	No
8/3/21	1AUpwind	23.9	17.7	No	0.007 J B	No	0.010	No
8/3/21	18Downwind	23.9	12.4	No	0.004 J B	No	0.005	No
8/4/21	1AUpwind	24.0	28.1	No	0.007 B	No	0.015	No
8/4/21	18Downwind	24.0	10.4	No	0.006 J B	No	0.006	No
8/5/21	1AUpwind	24.0	16.4	No	0.007 J B	No	0.010	No
8/5/21	18Downwind	24.1	18.3	No	<0.007 J B	No	0.006	No
8/6/21	1AUpwind	8.2	40.5	No	0.014 J B	No	0.026	No
8/6/21	18Downwind	8.4	32.9	No	0.012 J B	No	0.018	No
8/9/21	1AUpwind	24.0	50.9	No	0.006 J B	No	0.016	No
8/9/21	18Downwind	24.2	31.1	No	<0.007 J B	No	0.006	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP	TSP Exceedance? (Yes/No)	Lead	Lead Exceedance? (Yes/No)	Manganese	Manganese Exceedance? (Yes/No)
			500		50		200	
			($\mu\text{g}/\text{m}^3$)		($\mu\text{g}/\text{m}^3$)		($\mu\text{g}/\text{m}^3$)	
			Action Level					
			Units					
8/10/21	1AUpwind	24.0	51.8	No	0.016 B	No	0.024	No
8/10/21	18Downwind	23.9	24.8	No	0.006 J B	No	0.007	No
8/11/21	1AUpwind	23.9	70.5	No	0.009 B	No	0.034	No
8/11/21	18Downwind	23.7	21.0	No	0.006 J B	No	0.007	No
8/12/21	1AUpwind	23.9	46.6	No	0.009 B	No	0.023	No
8/12/21	18Downwind	24.2	21.2	No	0.009 B	No	0.008	No
8/13/21	1AUpwind	8.5	144	No	0.022 B	No	0.058	No
8/13/21	18Downwind	8.5	39.7	No	<0.021 J B	No	0.030	No
8/16/21	1AUpwind	23.7	159	No	0.015 B	No	0.054	No
8/16/21	18Downwind	23.7	60.0	No	0.009 B	No	0.014	No
8/17/21	1AUpwind	24.1	72.6	No	<0.007 J B	No	0.024	No
8/17/21	18Downwind	24.0	55.5	No	<0.007 J B	No	0.009	No
8/18/21	1AUpwind	23.8	65.8	No	0.007 J B	No	0.057	No
8/18/21	18Downwind	23.7	54.5	No	<0.007 J B	No	0.033	No
8/19/21	1AUpwind	24.4	67.9	No	0.009 B	No	0.071	No
8/19/21	18Downwind	23.8	43.2	No	<0.007 J B	No	0.034	No
8/20/21	1AUpwind	8.4	68.8	No	<0.021 J B	No	0.042	No
8/20/21	18Downwind	8.3	51.6	No	<0.021 J B	No	0.032	No
8/23/21	1AUpwind	23.9	61.9	No	0.00588 J	No	0.0336 J	No
8/23/21	18Downwind	23.9	25.2	No	0.00398 J	No	0.00799 J	No
8/24/21	1AUpwind	23.6	65.1	No	0.00830 J	No	0.0283 J	No
8/24/21	18Downwind	24.2	27.6	No	0.0112 J	No	0.00668 J	No
8/25/21	1AUpwind	24.1	70.3	No	<0.00733 J	No	0.00703 J	No
8/25/21	18Downwind	24.1	334	No	0.0159 J	No	0.0286 J	No
8/26/21	1AUpwind	24.3	76.3	No	0.00258 J	No	0.0163 J	No
8/26/21	18Downwind	23.6	40.5	No	0.00754 J	No	0.0284 J	No
8/27/21	1AUpwind	7.9	121	No	<0.0223 J	No	0.0289 J	No
8/27/21	18Downwind	8.3	55.8	No	<0.0213 J	No	0.0223 J	No
8/30/21	1AUpwind	23.8	129	No	<0.00741 J B	No	0.0264	No
8/30/21	18Downwind	23.9	49.0	No	<0.00738	No	0.00323 J	No
8/31/21	1AUpwind	24.2	136	No	<0.00731 J B	No	0.00852	No
8/31/21	18Downwind	23.5	56.6	No	<0.00752 J B	No	0.00549	No
9/1/21	1AUpwind	24.1	117	No	<0.00733	No	0.0155	No
9/1/21	18Downwind	24.1	51.7	No	<0.00733	No	0.00837	No
9/2/21	1AUpwind	23.8	68.2	No	<0.00741	No	0.00661	No
9/2/21	18Downwind	24.6	43.7	No	<0.00718 J B	No	0.0285	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP	TSP Exceedance? (Yes/No)	Lead	Lead Exceedance? (Yes/No)	Manganese	Manganese Exceedance? (Yes/No)
			500		50		200	
			(µg/m ³)		(µg/m ³)		(µg/m ³)	
			Action Level					
			Units					
9/3/21	1AUpwind	9.0	101	No	<0.0196	No	0.0231	No
9/3/21	18Downwind	8.2	47.7	No	<0.0216	No	0.0141	No
9/7/21	1AUpwind	24.0	56.7	No	0.00485 J	No	0.0223	No
9/7/21	18Downwind	23.9	28.3	No	0.00291 J	No	0.0100	No
9/8/21	1AUpwind	24.1	69.6	No	0.00714 J	No	0.0272	No
9/8/21	18Downwind	24.1	30.8	No	0.00327 J	No	0.00892	No
9/9/21	1AUpwind	23.9	79.8	No	0.0103	No	0.0381	No
9/9/21	18Downwind	24.0	23.9	No	0.00246 J	No	0.0109	No
9/10/21	1AUpwind	8.1	72.9	No	0.0100 J	No	0.0314	No
9/10/21	18Downwind	8.0	16.4	No	<0.0221	No	0.00894 J	No
9/13/21	1AUpwind	24.0	91.3	No	0.00571 B	No	0.0311	No
9/13/21	18Downwind	24.0	48.5	No	<0.00736 J B	No	0.00675	No
9/14/21	1AUpwind	24.1	68.2	No	<0.00734 J B	No	0.0175	No
9/14/21	18Downwind	24.0	36.7	No	<0.00735	No	0.00826	No
9/15/21	1AUpwind	24.0	152	No	0.0111 B	No	0.0434	No
9/15/21	18Downwind	24.0	32.5	No	<0.00735 J B	No	0.00815	No
9/16/21	1AUpwind	23.7	71.1	No	0.00832 B	No	0.0264	No
9/16/21	18Downwind	24.2	32.1	No	<0.00730	No	0.00563	No
9/17/21	1AUpwind	8.2	86.3	No	<0.0214	No	0.0268	No
9/17/21	18Downwind	7.8	38.3	No	<0.0227	No	0.00640 J	No
9/20/21	1AUpwind	24.0	54.7	No	0.00699 J	No	0.0181	No
9/20/21	18Downwind	24.0	39.2	No	0.00394 J	No	0.0252	No
9/21/21	1AUpwind	24.0	59.9	No	0.0107	No	0.0384	No
9/21/21	18Downwind	24.0	54.6	No	0.00938	No	0.0326	No
9/22/21	1AUpwind	24.0	40.6	No	0.00722 J	No	0.0265	No
9/22/21	18Downwind	24.0	27.4	No	0.00269 J	No	0.0112	No
9/23/21	1AUpwind	24.0	53.7	No	0.0103	No	0.0344	No
9/23/21	18Downwind	23.9	26.4	No	0.00483J	No	0.0123	No
9/24/21	1AUpwind	7.8	48.3	No	0.0151 J	No	0.0274	No
9/24/21	18Downwind	8.3	29.3	No	<0.0213	No	0.0103 J	No
9/27/21	1AUpwind	23.9	35.9	No	0.00744	No	0.0295	No
9/27/21	18Downwind	23.3	12.6	No	0.00228 J	No	0.00412	No
9/28/21	1AUpwind	24.0	60.6	No	0.0108	No	0.0395	No
9/28/21	18Downwind	24.0	33.8	No	0.00548 J	No	0.0101	No
9/29/21	1AUpwind	24.0	67.2	No	0.0175	No	0.0513	No
9/29/21	18Downwind	24.0	31.8	No	0.00420 J	No	0.0153	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP	TSP Exceedance? (Yes/No)	Lead	Lead Exceedance? (Yes/No)	Manganese	Manganese Exceedance? (Yes/No)
			500		50		200	
			($\mu\text{g}/\text{m}^3$)		($\mu\text{g}/\text{m}^3$)		($\mu\text{g}/\text{m}^3$)	
			Action Level					
			Units					
9/30/21	1Upwind	24.0	51.7	No	0.0209	No	0.0517	No
9/30/21	18Downwind	23.9	29.7	No	0.0158	No	0.0176	No
10/1/21	1Upwind	7.9	56.5	No	0.0181 J	No	0.0611	No
10/1/21	18Downwind	8.1	22.9	No	0.0122 J	No	0.0209	No
10/4/21	1Upwind	23.8	63.4	No	0.0104 J B	No	0.0456 J B	No
10/4/21	18Downwind	23.8	24.3	No	0.00648 J B	No	0.0167 B	No
10/5/21	1Upwind	24.0	60.9	No	0.00859 B	No	0.0289 B	No
10/5/21	18Downwind	24.0	18.6	No	<0.00736 J B	No	0.00944 B	No
10/6/21	1Upwind	24.0	57.1	No	<0.00735 J B	No	0.0245 B	No
10/6/21	18Downwind	24.0	31.0	No	<0.00736 J B	No	0.00852 B	No
10/7/21	1Upwind	24.0	104	No	0.0114 B	No	0.0596 B	No
10/7/21	18Downwind	24.0	32.3	No	<0.00735 J B	No	0.00667 B	No
10/8/21	1Upwind	8.1	173	No	0.0223 B	No	0.105 B	No
10/8/21	18Downwind	8.2	41.3	No	<0.0214 J B	No	0.0206 B	No
10/11/21	1Upwind	23.7	51.2	No	<0.00746	No	0.0300	No
10/11/21	18Downwind	23.8	33.6	No	<0.00741	No	0.0163	No
10/12/21	1Upwind	24.0	73.0	No	<0.00734	No	0.0387	No
10/12/21	18Downwind	24.0	34.8	No	<0.00735	No	0.00858	No
10/13/21	1Upwind	11.2	107	No	<0.0158	No	0.0485	No
10/13/21	18Downwind	24.2	22.5	No	0.00222 J	No	<0.00365	No
10/14/21	1Upwind	23.9	73.3	No	0.00237 J	No	0.0478	No
10/14/21	18Downwind	23.9	30.0	No	<0.00739	No	0.0148	No
10/15/21	1Upwind	8.2	53.5	No	<0.0216	No	0.0142	No
10/15/21	18Downwind	8.0	29.8	No	<0.0221	No	<0.0110	No
10/18/21	1Upwind	24.08	49.4	No	0.00602 J	No	0.0237	No
10/18/21	18Downwind	23.87	15.9	No	<0.00740	No	0.00425	No
10/19/21	1Upwind	8.33	43.3	No	0.0114 J	No	0.0288	No
10/19/21	18Downwind	7.90	26.8	No	<0.0223	No	0.0115	No
10/20/21	1Upwind	2.40	<18.4	No	<0.0736	No	<0.0368	No
10/20/21	18Downwind	1.97	<22.4	No	<0.0898	No	<0.0449	No
10/21/21	1Upwind	21.22	9.01	No	<0.00832	No	0.00340 J	No
10/21/21	18Downwind	21.15	10.7	No	<0.00835	No	0.00388 J	No
10/22/21	1Upwind	6.40	18.6	No	0.00738 J	No	<0.0138 J	No
10/22/21	18Downwind	6.10	20.7	No	0.00851 J	No	0.0355	No
10/25/21	1Upwind	24.00	52.4	No	<0.00736	No	0.0175	No
10/25/21	18Downwind	23.78	32.7	No	<0.00742	No	<0.00371	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP	TSP Exceedance? (Yes/No)	Lead	Lead Exceedance? (Yes/No)	Manganese	Manganese Exceedance? (Yes/No)
			500		50		200	
			(µg/m ³)		(µg/m ³)		(µg/m ³)	
			Action Level					
			Units					
10/26/21	1Upwind	23.97	39.8	No	<0.00737	No	0.00586	No
10/26/21	18Downwind	24.05	40.8	No	<0.00734	No	<0.00367	No
10/27/21	1Upwind	3.75	48.6	No	<0.0471	No	0.0222 J	No
10/27/21	18Downwind	3.68	64.3	No	<0.0479	No	0.0166 J	No
10/28/21	1Upwind	24.05	8.56	No	<0.00734	No	0.00283 J	No
10/28/21	18Downwind	23.83	15.4	No	<0.00741	No	0.00370 J	No
10/29/21	1Upwind	23.95	34.2	No	0.00823	No	0.0167	No
10/29/21	18Downwind	23.92	23.7	No	0.00260 J	No	0.00818	No
11/1/21	1Upwind	24.17	27.5	No	0.00193 J	No	0.0103	No
11/1/21	18Downwind	23.90	20.3	No	<0.00739	No	0.00313 J	No
11/2/21	1Upwind	24.00	81.5	No	0.00742	No	0.0288	No
11/2/21	18Downwind	23.93	53.3	No	0.00243 J	No	0.00435	No
11/3/21	1Upwind	8.33	120	No	0.00934 J	No	0.0500	No
11/3/21	18Downwind	8.33	51.2	No	<0.0212	No	<0.0106	No
11/4/21	1Upwind	23.87	20.3	No	0.00635 J	No	0.00980	No
11/4/21	18Downwind	24.17	25.3	No	0.00248 J	No	0.00502	No
11/5/21	1Upwind	24.02	14.5	No	<0.00735	No	<0.00368	No
11/5/21	18Downwind	23.67	12.8	No	<0.00746	No	<0.00373	No
11/8/21	1Upwind	24.30	32.6	No	0.00378 J	No	0.0122	No
11/8/21	18Downwind	24.28	23.9	No	0.00282 J	No	0.00654	No
11/9/21	1Upwind	24.02	35.8	No	0.00599 J	No	0.0246	No
11/9/21	18Downwind	23.97	22.3	No	0.00285 J	No	0.00878	No
11/10/21	1Upwind	23.63	42.6	No	0.00728 J	No	0.0252	No
11/10/21	18Downwind	24.13	20.7	No	0.00405 J	No	0.00774	No
11/11/21	1Upwind	7.77	23.3	No	<0.0227	No	0.0128	No
11/11/21	18Downwind	7.65	15.4	No	<0.0231	No	0.0155	No
11/12/21	1Upwind	23.77	40.8	No	0.0039 J	No	0.0168	No
11/12/21	18Downwind	23.80	21.9	No	0.0040 J	No	0.0033 J	No
11/15/21	1Upwind	23.88	43.3	No	0.0062 J	No	0.0197	No
11/15/21	18Downwind	24.13	24	No	0.0046 J	No	0.0062	No
11/16/21	1Upwind	24.60	45.8	No	0.0077	No	0.0239	No
11/16/21	18Downwind	24.78	28.3	No	0.0049 J	No	0.0105	No
11/17/21	1Upwind	23.80	44.8	No	0.0064 J	No	0.0205	No
11/17/21	18Downwind	23.27	27.9	No	0.0039 J	No	0.0075	No
11/18/21	1Upwind	23.78	20.9	No	0.0031 J	No	0.0075	No
11/18/21	18Downwind	23.82	13.7	No	0.0039 J	No	0.0035 J	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP	TSP Exceedance? (Yes/No)	Lead	Lead Exceedance? (Yes/No)	Manganese	Manganese Exceedance? (Yes/No)
			500		50		200	
			($\mu\text{g}/\text{m}^3$)		($\mu\text{g}/\text{m}^3$)		($\mu\text{g}/\text{m}^3$)	
Action Level								
Units								
11/19/21	1AUpwind	7.58	14	No	<0.0233	No	0.0066 J	No
11/19/21	18Downwind	7.68	9.38	No	0.0115 J	No	0.3447	No
11/22/21	1AUpwind	23.95	39.8	No	0.0053 J	No	0.0219	No
11/22/21	18Downwind	23.92	26	No	0.0044 J	No	0.0107	No
11/23/21	1AUpwind	9.75	58.5	No	0.0093 J	No	0.0338	No
11/23/21	18Downwind	9.83	22.7	No	<0.0180	No	0.0088 J	No
11/29/21	1AUpwind	24.02	40.2	No	<0.0074	No	<0.0037	No
11/29/21	18Downwind	23.50	22.1	No	<0.0075	No	<0.0038	No
11/30/21	1AUpwind	23.92	42.6	No	<0.0074	No	<0.0037	No
11/30/21	18Downwind	23.88	23.7	No	<0.0074	No	<0.0037	No
12/1/21	1AUpwind	23.88	40.4	No	<0.0074	No	<0.0037	No
12/1/21	18Downwind	24.13	37.9	No	<0.0073	No	<0.0037	No
12/2/21	1AUpwind	24.45	51	No	<0.0072	No	<0.0036	No
12/2/21	18Downwind	24.23	37.8	No	<0.0073	No	<0.0036	No
12/3/21	1AUpwind	23.68	18.3	No	<0.0075	No	<0.0037	No
12/3/21	18Downwind	23.65	38.1	No	<0.0075	No	<0.0037	No
12/4/21	1AUpwind	7.80	28.5	No	<0.0226	No	<0.0113	No
12/4/21	18Downwind	7.78	20.4	No	<0.0227	No	<0.0113	No
12/6/21	1AUpwind	23.87	60.8	No	<0.0074	No	<0.0037	No
12/6/21	18Downwind	23.92	29	No	<0.0074	No	<0.0037	No
12/7/21	1AUpwind	24.00	20.5	No	<0.0074	No	<0.0037	No
12/7/21	18Downwind	24.00	15.2	No	<0.0074	No	<0.0037	No
12/8/21	1AUpwind	23.92	21.6	No	<0.0074	No	<0.0037	No
12/8/21	18Downwind	23.92	12.8	No	<0.0074	No	<0.0037	No
12/9/21	1AUpwind	24.50	48.6	No	<0.0072	No	<0.0036	No
12/9/21	18Downwind	24.45	22.1	No	<0.0072	No	<0.0036	No
12/10/21	1AUpwind	8.57	78.7	No	<0.0206	No	<0.0103	No
12/10/21	18Downwind	8.82	40	No	<0.0200	No	<0.0100	No
6/2/22	1AUpwind	24.2	100	No	0.0120	No	0.0657	No
6/2/22	18Downwind	24.0	27.0	No	0.00505J	No	0.0131	No
6/3/22	1AUpwind	7.5	91.4	No	0.00925J	No	0.0534	No
6/3/22	18Downwind	7.0	21.9	No	<0.0252	No	0.00975J	No
6/6/22	1AUpwind	24.1	123	No	0.0128	No	0.0612	No
6/6/22	18Downwind	23.9	33.6	No	0.00770	No	0.0106J	No
6/7/22	1AUpwind	24.2	186	No	0.0185	No	0.0950	No
6/7/22	18Downwind	24.0	36.2	No	0.00761	No	0.0169	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP	TSP Exceedance? (Yes/No)	Lead	Lead Exceedance? (Yes/No)	Manganese	Manganese Exceedance? (Yes/No)
			500		50		200	
			(µg/m ³)		(µg/m ³)		(µg/m ³)	
			Action Level					
			Units					
6/8/22	1AUpwind	23.7	168	No	0.0227	No	0.106	No
6/8/22	18Downwind	24.0	32.6	No	0.00749	No	0.0132	No
6/9/22	1AUpwind	24.6	119	No	0.0138	No	0.0590	No
6/9/22	18Downwind	24.1	32.3	No	0.00506 J	No	0.00972 J	No
6/10/22	1AUpwind	7.4	143	No	0.0218 J	No	0.0666	No
6/10/22	18Downwind	7.0	47.7	No	0.0129 J	No	0.0371 J	No
6/13/22	1AUpwind	23.5	118	No	0.0122	No	0.0675	No
6/13/22	18Downwind	23.7	36.4	No	0.00235 J	No	0.00916 J	No
6/14/22	1AUpwind	24.0	160	No	0.0127	No	0.0784	No
6/14/22	18Downwind	24.1	50.4	No	0.00601 J	No	0.0170	No
6/15/22	1AUpwind	24.0	266	No	0.0246	No	0.140	No
6/15/22	18Downwind	24.1	54.5	No	0.00957	No	0.0251	No
6/16/22	1AUpwind	24.0	201	No	0.0238	No	0.130	No
6/16/22	18Downwind	23.8	48.9	No	0.00947	No	0.0192	No
6/17/22	1AUpwind	7.4	172	No	0.0272	No	0.116	No
6/17/22	18Downwind	7.0	27.3	No	0.00722 J	No	0.0156 J	No
6/20/22	1AUpwind	23.8	92.7	No	0.00835	No	0.0412 B	No
6/20/22	18Downwind	24.0	34.6	No	0.00525 J B	No	0.012 J B	No
6/21/22	1AUpwind	24.1	78.6	No	0.0149B	No	0.0495 B	No
6/21/22	18Downwind	23.9	35.4	No	0.00362 J B	No	0.0151 B	No
6/22/22	1AUpwind	24.6	117	No	0.0175B	No	0.0757 B	No
6/22/22	18Downwind	24.2	36.0	No	0.00488 J B	No	0.0164 B	No
6/23/22	1AUpwind	24.0	85.0	No	0.0135B	No	0.0551 B	No
6/23/22	18Downwind	24.0	24.2	No	0.00694 J B	No	0.0155 B	No
6/24/22	1AUpwind	7.4	103	No	0.00950 J B	No	0.0667 B	No
6/24/22	18Downwind	7.0	33.6	No	0.00685 J B	No	0.0199 J B	No
6/27/22	1AUpwind	24.5	108	No	0.0165	No	0.0713 B	No
6/27/22	18Downwind	23.9	26.9	No	0.00520 J	No	0.0112 J B	No
6/28/22	1AUpwind	24.0	173	No	0.0231	No	0.113 B	No
6/28/22	18Downwind	24.1	46.3	No	0.00968	No	0.0209 B	No
6/29/22	1AUpwind	24.0	32.8	No	0.00333 J	No	0.00824 J B	No
6/29/22	18Downwind	23.9	105	No	0.0129	No	0.0611 B	No
6/30/22	1AUpwind	24.0	52.7	No	0.00842	No	0.0307 B	No
6/30/22	18Downwind	24.1	24.3	No	0.00359 J	No	0.00633 J B	No
7/1/22	1AUpwind	6.0	49.5	No	<0.0294	No	0.0285 J B	No
7/1/22	18Downwind	6.0	29.9	No	<0.0294	No	0.0118 J B	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Notes:

Note 1: Sample not collected due to inclement conditions (rain).

Note 2: Sample not collected because the site was temporarily shut down and no workers were on site.

Sample locations are shown on Figure 1.

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

TSP - total suspended particulates

B - compound was found in the blank and sample

J - the concentration is an estimated value

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period	PM10 Result	PM10 Exceedance? (Yes/No)	PM10 Exceedance? (Yes/No)
				5000 ^a	50 ^b
				(µg/m ³)	(µg/m ³)
Action Level		≤ 25			
Units		hours	(µg/m ³)	(µg/m ³)	(µg/m ³)
8/24/20	1Upwind	23.55	24.2	No	No
8/24/20	17Downwind	24.32	21.1	No	No
8/25/20	1Upwind	23.90	26.6	No	No
8/25/20	17Downwind	24.25	23.1	No	No
8/26/20	1Upwind	24.12	16.7	No	No
8/26/20	17Downwind	24.08	17.9	No	No
8/27/20	1Upwind	24.10	18.3	No	No
8/27/20	17Downwind	24.07	23.5	No	No
8/28/20	1Upwind	7.33	70.4	No	Yes (Note 1)
8/28/20	17Downwind	7.12	64.7	No	Yes (Note 1)
8/31/20	1Upwind	23.85	27.3	No	No
8/31/20	17Downwind	23.65	26.4	No	No
9/1/20	1Upwind	24.17	29.2	No	No
9/1/20	17Downwind	24.08	28.3	No	No
9/2/20	1Upwind	23.62	21.1	No	No
9/2/20	17Downwind	23.60	19.8	No	No
9/3/20	1Upwind	23.88	18.9	No	No
9/3/20	17Downwind	23.90	16.6	No	No
9/4/20	1Upwind	8.33	28.1	No	No
9/4/20	17Downwind	8.08	22.9	No	No
9/8/20	1Upwind	23.85	50.0	No	No
9/8/20	17ADownwind	24.15	47.8	No	No
9/9/20	1Upwind	23.93	131	No	Yes (Note 1)
9/9/20	17ADownwind	23.97	119	No	Yes (Note 1)
9/10/20	1Upwind	24.27	159	No	Yes (Note 1)
9/10/20	17ADownwind	24.20	161	No	Yes (Note 1)
9/11/20	1Upwind	7.45	192	No	Yes (Note 1)
9/11/20	17ADownwind	7.23	178	No	Yes (Note 1)
9/14/20	1Upwind	24.38	48.6	No	No
9/14/20	17ADownwind	24.45	88.4	No	Yes (Note 1)
9/15/20	1Upwind	23.82	23.9	No	No
9/15/20	17ADownwind	23.85	13.6	No	No
9/16/20	1Upwind	23.33	13.6	No	No
9/16/20	17ADownwind	23.67	9.64	No	No
9/17/20	1Upwind	24.17	20.8	No	No
9/17/20	17ADownwind	24.25	21.9	No	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period	PM10 Result	PM10 Exceedance? (Yes/No)	PM10 Exceedance? (Yes/No)
				5000 ^a	50 ^b
				(µg/m ³)	(µg/m ³)
Action Level		≤ 25			
Units		hours	(µg/m ³)	(µg/m ³)	(µg/m ³)
9/18/20	1Upwind	8.08	7.83	No	No
9/18/20	17ADownwind	7.33	8.43	No	No
9/21/20	1Upwind	23.85	11.5	No	No
9/21/20	17ADownwind	24.20	20.1	No	No
9/22/20	1Upwind	23.40	22.1	No	No
9/22/20	17ADownwind	23.48	16.0	No	No
9/23/20	1Upwind	23.85	14.7	No	No
9/23/20	17ADownwind	24.68	8.40	No	No
9/24/20	1Upwind	24.28	8.79	No	No
9/24/20	17ADownwind	24.60	1.79	No	No
9/25/20	1Upwind	3.82	47.4	No	No
9/25/20	17ADownwind	7.08	32.0	No	No
9/28/20	1Upwind	23.90	39.3	No	No
9/28/20	17ADownwind	23.82	35.2	No	No
9/29/20	1Upwind	24.25	13.4	No	No
9/29/20	17ADownwind	24.00	12.8	No	No
9/30/20	1Upwind	24.50	43.0	No	No
9/30/20	17ADownwind	24.45	13.9	No	No
10/1/20	1Upwind	23.42	66.7	No	Yes (Note 1)
10/1/20	17ADownwind	23.93	82.3	No	Yes (Note 1)
10/2/20	1Upwind	7.97	96.2	No	No (Note 2)
10/2/20	17ADownwind	7.53	91.7	No	No (Note 2)
10/5/20	1Upwind	24.22	15.7	No	No
10/5/20	17ADownwind	24.27	14.3	No	No
10/6/20	1Upwind	24.48	199	No	No (Note 2)
10/6/20	17ADownwind	24.78	23.0	No	No
10/7/20	1Upwind	23.55	29.6	No	No
10/7/20	17ADownwind	23.57	27.3	No	No
10/8/20	1Upwind	23.57	17.5	No	No
10/8/20	17ADownwind	23.23	14.1	No	No
10/9/20	1Upwind	8.00	ND	No	No
10/9/20	17ADownwind	8.05	5.77	No	No
10/12/20	1Upwind	23.90	29.6	No	No
10/12/20	17ADownwind	23.90	23.7	No	No
10/13/20	1Upwind	24.20	32.8	No	No
10/13/20	17ADownwind	24.17	21.9	No	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period	PM10 Result	PM10 Exceedance? (Yes/No)	PM10 Exceedance? (Yes/No)
				5000 ^a	50 ^b
				(µg/m ³)	(µg/m ³)
Action Level		≤ 25			
Units		hours	(µg/m ³)	(µg/m ³)	(µg/m ³)
10/14/20	1Upwind	23.83	40.6	No	No
10/14/20	17ADownwind	24.03	33.7	No	No
10/15/20	1Upwind	23.77	89.1	No	Yes
10/15/20	17ADownwind	24.12	79.7	No	Yes
10/16/20	1Upwind	8.08	34.6	No	No
10/16/20	17ADownwind	7.60	28.8	No	No
10/19/20	1Upwind	23.53	26.3	No	No
10/19/20	17ADownwind	24.33	23.0	No	No
10/20/20	1Upwind	23.98	28.8	No	No
10/20/20	17ADownwind	23.57	25.7	No	No
10/21/20	1Upwind	24.03	41.8	No	No
10/21/20	17ADownwind	24.02	38.2	No	No
10/22/20	1Upwind	24.12	38.9	No	No
10/22/20	17ADownwind	24.15	30.7	No	No
10/23/20	1Upwind	7.87	107	No	No (Note 2)
10/23/20	17ADownwind	7.77	75.0	No	No (Note 2)
10/24/20	1Upwind	8.32	40.2	No	No
10/24/20	17ADownwind	8.42	19.4	No	No
10/26/20	1Upwind	23.95	39.9	No	No
10/26/20	17ADownwind	23.52	38.8	No	No
10/27/20	1Upwind	23.67	39.8	No	No
10/27/20	17ADownwind	23.65	46.3	No	No
10/28/20	1Upwind	24.18	53.4	No	No (Note 2)
10/28/20	17ADownwind	24.25	49.1	No	No
10/29/20	1Upwind	23.82	42.3	No	No
10/29/20	17ADownwind	24.33	40.2	No	No
10/30/20	1Upwind	25.52	30.5	No	No
10/30/20	17ADownwind	23.42	24.9	No	No
10/31/20	1Upwind	6.38	30.2	No	No
10/31/20	18Downwind	6.45	31.2	No	No
11/2/20	1Upwind	24.10	38.0	No	No
11/2/20	18Downwind	24.10	14.2	No	No
11/3/20	1Upwind	24.22	15.4	No	No
11/3/20	18Downwind	24.23	6.92	No	No
11/4/20	1Upwind	23.88	6.84	No	No
11/4/20	18Downwind	23.85	4.46	No	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period	PM10 Result	PM10 Exceedance? (Yes/No)	PM10 Exceedance? (Yes/No)
				5000 ^a	50 ^b
		Action Level		≤ 25	(µg/m ³)
Units	hours	(µg/m ³)	(µg/m ³)	(µg/m ³)	
11/5/20	1Upwind	24.08	27.7	No	No
11/5/20	18Downwind	24.15	14.3	No	No
11/6/20	1Upwind	23.75	32.3	No	No
11/6/20	18Downwind	24.17	8.77	No	No
11/7/20	1Upwind	7.17	6.36	No	No
11/7/20	18Downwind	6.67	ND	No	No
11/9/20	1Upwind	23.83	24.0	No	No
11/9/20	18Downwind	23.85	17.7	No	No
11/10/20	1Upwind	23.75	16.5	No	No
11/10/20	18Downwind	24.08	12.6	No	No
11/11/20	1Upwind	24.25	20.7	No	No
11/11/20	18Downwind	23.90	18.7	No	No
11/12/20	1Upwind	24.07	17.1	No	No
11/12/20	18Downwind	24.02	21.7	No	No
11/13/20	1Upwind	5.77	3.06	No	No
11/13/20	18Downwind	5.78	2.33	No	No
11/16/20	1Upwind	24.57	63.8	No	Yes (Note 3)
11/16/20	18Downwind	24.55	34.5	No	No
11/17/20	1Upwind	27.13	ND	No	No
11/17/20	18Downwind	27.08	11.3	No	No
11/18/20	1Upwind	24.13	21.0	No	No
11/18/20	18Downwind	24.05	21.4	No	No
11/19/20	1Upwind	24.52	30.5	No	No
11/19/20	18Downwind	24.43	9.82	No	No
11/20/20	1Upwind	23.65	43.1	No	No
11/20/20	18Downwind	23.72	27.3	No	No
11/21/20	1Upwind	6.52	ND	No	No
11/21/20	18Downwind	6.60	76.0	No	Yes
11/23/20	1Upwind	24.13	7.68	No	No
11/23/20	18Downwind	23.97	6.26	No	No
11/24/20	1Upwind	24.53	10.6	No	No
11/24/20	18Downwind	24.58	13.6	No	No
11/25/20	1Upwind	7.95	ND	No	No
11/25/20	18Downwind	8.33	ND	No	No
11/30/20	1Upwind	23.08	27.2	No	No
11/30/20	18Downwind	23.90	15.6	No	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period	PM10 Result	PM10 Exceedance? (Yes/No)	PM10 Exceedance? (Yes/No)
		≤ 25		5000 ^a	50 ^b
		hours		(µg/m ³)	(µg/m ³)
12/1/20	1Upwind	23.42	28.5	No	No
12/1/20	18Downwind	24.02	22.6	No	No
12/2/20	1Upwind	24.32	19.5	No	No
12/2/20	18Downwind	24.37	26.1	No	No
12/3/20	1Upwind	23.68	74.0	No	Yes (Note 1)
12/3/20	18Downwind	23.53	51.0	No	Yes (Note 1)
12/4/20	1Upwind	23.83	62.9	No	Yes (Note 1)
12/4/20	18Downwind	24.07	58.1	No	Yes (Note 1)
12/5/20	1Upwind	7.10	61.7	No	Yes (Note 1)
12/5/20	18Downwind	7.10	56.4	No	Yes (Note 1)
12/7/20	1Upwind	23.85	44.2	No	No
12/7/20	18Downwind	23.88	29.0	No	No
12/8/20	1Upwind	24.08	63.9	No	Yes (Note 3)
12/8/20	18Downwind	24.03	32.3	No	No
12/9/20	1Upwind	23.83	90.5	No	Yes
12/9/20	18Downwind	23.87	64.0	No	Yes
12/10/20	1Upwind	23.98	41.8	No	No
12/10/20	18Downwind	24.08	24.3	No	No
12/11/20	1Upwind	8.78	28.8	No	No
12/11/20	18Downwind	8.98	9.66	No	No
12/12/20	1Upwind	7.23	14.8	No	No
12/12/20	18Downwind	7.33	15.7	No	No
12/14/20	1Upwind	24.13	22.7	No	No
12/14/20	18Downwind	24.10	15.9	No	No
12/15/20	1Upwind	24.10	31.4	No	No
12/15/20	18Downwind	24.05	19.8	No	No
12/16/20	1Upwind	7.58	34.1	No	No
12/16/20	18Downwind	7.67	19.2	No	No
12/17/20	1Upwind	24.25	31.6	No	No
12/17/20	18Downwind	24.22	12.5	No	No
12/18/20	1Upwind	8.67	21.0	No	No
12/18/20	18Downwind	8.68	ND	No	No
12/21/20	1Upwind	23.58	17.0	No	No
12/21/20	18Downwind	23.58	9.36	No	No
12/22/20	1Upwind	3.62	ND	No	No
12/22/20	18Downwind	3.60	ND	No	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period	PM10 Result	PM10 Exceedance? (Yes/No)	PM10 Exceedance? (Yes/No)
		≤ 25		5000 ^a	50 ^b
		hours		(µg/m ³)	(µg/m ³)
12/23/20	1Upwind	Note 5	Note 5	Note 5	Note 5
12/23/20	18Downwind	Note 5	Note 5	Note 5	Note 5
12/28/20	1Upwind	Note 5	Note 5	Note 5	Note 5
12/28/20	18Downwind	Note 5	Note 5	Note 5	Note 5
12/29/20	1Upwind	Note 5	Note 5	Note 5	Note 5
12/29/20	18Downwind	Note 5	Note 5	Note 5	Note 5
12/30/20	1Upwind	Note 5	Note 5	Note 5	Note 5
12/30/20	18Downwind	Note 5	Note 5	Note 5	Note 5
12/31/20	1Upwind	Note 5	Note 5	Note 5	Note 5
12/31/20	18Downwind	Note 5	Note 5	Note 5	Note 5
1/4/21	1Upwind	Note 4	Note 4	Note 4	Note 4
1/4/21	18Downwind	Note 4	Note 4	Note 4	Note 4
1/5/21	1Upwind	24.00	22.9	No	No
1/5/21	18Downwind	23.92	16.1	No	No
1/6/21	1Upwind	4.25	10.4	No	No
1/6/21	18Downwind	4.50	13.1	No	No
1/7/21	1Upwind	23.68	19.6	No	No
1/7/21	18Downwind	23.83	20.0	No	No
1/8/21	1Upwind	2.58	ND	No	No
1/8/21	18Downwind	2.58	ND	No	No
1/11/21	1Upwind	23.80	32.9	No	No
1/11/21	18Downwind	24.20	22.8	No	No
1/12/21	1Upwind	24.27	36.9	No	No
1/12/21	18Downwind	23.85	38.1	No	No
1/13/21	1Upwind	23.98	21.2	No	No
1/13/21	18Downwind	23.98	19.8	No	No
1/14/21	1Upwind	23.62	17.8	No	No
1/14/21	18Downwind	24.07	16.6	No	No
1/15/21	1Upwind	7.35	28.6	No	No
1/15/21	18Downwind	7.02	31.0	No	No
1/19/21	1Upwind	23.52	50.8	No	Yes
1/19/21	18Downwind	23.38	73.7	No	Yes
1/20/21	1Upwind	24.15	81.3	No	Yes
1/20/21	18Downwind	24.20	62.2	No	Yes
1/21/21	1Upwind	9.50	71.2	No	Yes (Note 3)
1/21/21	18Downwind	9.12	35.5	No	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period	PM10 Result	PM10 Exceedance? (Yes/No)	PM10 Exceedance? (Yes/No)
		≤ 25		5000 ^a	50 ^b
		Units		hours	(µg/m ³)
1/22/21	1Upwind	3.78	ND	No	No
1/22/21	18Downwind	3.52	ND	No	No
1/25/21	1Upwind	23.73	49.0	No	No
1/25/21	18Downwind	23.67	12.4	No	No
1/26/21	1Upwind	Note 5	Note 5	Note 5	Note 5
1/26/21	18Downwind	Note 5	Note 5	Note 5	Note 5
1/27/21	1Upwind	Note 5	Note 5	Note 5	Note 5
1/27/21	18Downwind	Note 5	Note 5	Note 5	Note 5
1/28/21	1Upwind	Note 5	Note 5	Note 5	Note 5
1/28/21	18Downwind	Note 5	Note 5	Note 5	Note 5
1/29/21	1Upwind	Note 5	Note 5	Note 5	Note 5
1/29/21	18Downwind	Note 5	Note 5	Note 5	Note 5
2/1/21	1Upwind	Note 5	Note 5	Note 5	Note 5
2/1/21	18Downwind	Note 5	Note 5	Note 5	Note 5
2/2/21	1Upwind	Note 5	Note 5	Note 5	Note 5
2/2/21	18Downwind	Note 5	Note 5	Note 5	Note 5
2/3/21	1Upwind	Note 5	Note 5	Note 5	Note 5
2/3/21	18Downwind	Note 5	Note 5	Note 5	Note 5
2/4/21	1Upwind	24.13	36.2	No	No
2/4/21	18Downwind	24.20	13.5	No	No
2/5/21	1Upwind	7.62	51.0	No	Yes (Note 3)
2/5/21	18Downwind	7.08	17.0	No	No
2/8/21	1Upwind	23.22	32.4	No	No
2/8/21	18Downwind	23.35	18.8	No	No
2/9/21	1Upwind	23.60	25.9	No	No
2/9/21	18Downwind	23.70	13.3	No	No
2/10/21	1Upwind	23.83	42.7	No	No
2/10/21	18Downwind	24.18	10.5	No	No
2/11/21	1Upwind	5.42	66.5	No	Yes (Note 3)
2/11/21	18Downwind	5.17	9.68	No	No
2/12/21	1Upwind	7.68	46.2	No	No
2/12/21	18Downwind	7.25	11.9	No	No
2/15/21	1Upwind	Note 4	Note 4	Note 4	Note 4
2/15/21	18Downwind	Note 4	Note 4	Note 4	Note 4
2/16/21	1Upwind	24.50	74.8	No	Yes (Note 3)
2/16/21	18Downwind	23.97	19.6	No	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period	PM10 Result	PM10 Exceedance? (Yes/No)	PM10 Exceedance? (Yes/No)
		≤ 25		5000 ^a	50 ^b
		hours		(µg/m ³)	(µg/m ³)
5/24/21	1Upwind	18.42	5.03	No	No
5/24/21	18Downwind	18.25	11.4	No	No
5/25/21	1Upwind	24.00	28.8	No	No
5/25/21	18Downwind	24.00	19.6	No	No
5/26/21	1Upwind	24.00	31.6	No	No
5/26/21	18Downwind	24.00	23.1	No	No
5/27/21	1Upwind	23.92	20.2	No	No
5/27/21	18Downwind	23.92	12.4	No	No
5/28/21	1Upwind	7.92	30.1	No	No
5/28/21	18Downwind	7.48	22.7	No	No
6/1/21	1Upwind	23.72	12.2	No	No
6/1/21	18Downwind	24.07	10.4	No	No
6/2/21	1Upwind	23.92	17.7	No	No
6/2/21	18Downwind	24.00	ND	No	No
6/3/21	1Upwind	24.08	19.6	No	No
6/3/21	18Downwind	24.00	17.2	No	No
6/4/21	1Upwind	8.05	22.8	No	No
6/4/21	18Downwind	7.67	15.7	No	No
6/7/21	1Upwind	24.08	41.3	No	No
6/7/21	18Downwind	24.10	24.1	No	No
6/8/21	1Upwind	24.03	13.8	No	No
6/8/21	18Downwind	24.08	13.1	No	No
6/9/21	1Upwind	24.13	11.6	No	No
6/9/21	18Downwind	24.00	8.15	No	No
6/10/21	1Upwind	23.92	16.0	No	No
6/10/21	18Downwind	24.00	7.30	No	No
6/11/21	1Upwind	8.25	13.0	No	No
6/11/21	18Downwind	8.17	13.0	No	No
6/14/21	1Upwind	23.55	ND	No	No
6/14/21	18Downwind	23.85	7.28	No	No
6/15/21	1Upwind	23.92	ND	No	No
6/15/21	18Downwind	24.02	24.7	No	No
6/16/21	1Upwind	24.08	30.1	No	No
6/16/21	18Downwind	23.98	34.0	No	No
6/17/21	1Upwind	24.08	48.0	No	No
6/17/21	18Downwind	24.08	38.1	No	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period	PM10 Result ($\mu\text{g}/\text{m}^3$)	PM10 Exceedance? (Yes/No)	PM10 Exceedance? (Yes/No)
		≤ 25		5000 ^a	50 ^b
		hours		($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)
Action Level		Units			
6/18/21	1Upwind	8.08	72.6	No	Yes
6/18/21	18Downwind	8.05	65.9	No	Yes
6/21/21	1Upwind	23.68	16.7	No	No
6/21/21	18Downwind	23.75	122	No	Yes
6/22/21	1Upwind	24.05	12.6	No	No
6/22/21	18Downwind	24.00	8.28	No	No
6/23/21	1Upwind	23.95	17.3	No	No
6/23/21	18Downwind	24.00	6.99	No	No
6/24/21	1Upwind	24.08	14.4	No	No
6/24/21	18Downwind	24.08	6.41	No	No
6/25/21	1Upwind	8.17	13.2	No	No
6/25/21	18Downwind	7.88	12.5	No	No
6/28/21	1Upwind	24.00	11.3	No	No
6/28/21	18Downwind	24.00	8.89	No	No
6/29/21	1Upwind	24.08	15.9	No	No
6/29/21	18Downwind	24.03	14.2	No	No
6/30/21	1Upwind	23.83	8.09	No	No
6/30/21	18Downwind	23.85	6.66	No	No
7/1/21	1Upwind	24.00	7.85	No	No
7/1/21	18Downwind	24.03	5.45	No	No
7/2/21	1Upwind	8.20	12.2	No	No
7/2/21	18Downwind	7.88	9.64	No	No
7/6/21	1AUpwind	22.55	35.7	No	No
7/6/21	18Downwind	22.97	12.5	No	No
7/7/21	1AUpwind	24.08	38.1	No	No
7/7/21	18Downwind	24.07	19.0	No	No
7/8/21	1AUpwind	23.95	46.8	No	No
7/8/21	18Downwind	23.93	29.5	No	No
7/9/21	1AUpwind	8.18	52.1	No	Yes (Note 3)
7/9/21	18Downwind	7.92	38.5	No	No
7/12/21	1AUpwind	23.73	25.6	No	No
7/12/21	18Downwind	23.38	14.2	No	No
7/13/21	1AUpwind	24.07	18.8	No	No
7/13/21	18Downwind	24.13	11.6	No	No
7/14/21	1AUpwind	24.18	16.0	No	No
7/14/21	18Downwind	23.80	11.6	No	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period	PM10 Result	PM10 Exceedance? (Yes/No)	PM10 Exceedance? (Yes/No)
				5000 ^a	50 ^b
		Units		hours	(µg/m ³)
7/15/21	1AUpwind	24.08	19.0	No	No
7/15/21	18Downwind	24.12	11.7	No	No
7/16/21	1AUpwind	8.08	41.1	No	No
7/16/21	18Downwind	7.95	23.4	No	No
7/19/21	1AUpwind	24.1	48.0	No	No
7/19/21	18Downwind	24.1	22.8	No	No
7/20/21	1AUpwind	23.7	17.4	No	No
7/20/21	18Downwind	24.1	15.4	No	No
7/21/21	1AUpwind	24.2	33.4	No	No
7/21/21	18Downwind	23.8	30.6	No	No
7/22/21	1AUpwind	23.9	33.7	No	No
7/22/21	18Downwind	23.9	36.4	No	No
7/23/21	1AUpwind	7.7	46.3	No	No
7/23/21	18Downwind	8.0	41.8	No	No
7/26/21	1AUpwind	23.5	14.5	No	No
7/26/21	18Downwind	23.8	16.4	No	No
7/27/21	1AUpwind	24.0	16.6	No	No
7/27/21	18Downwind	23.7	9.64	No	No
7/28/21	1AUpwind	24.2	21.2	No	No
7/28/21	18Downwind	24.2	7.91	No	No
7/29/21	1AUpwind	23.9	16.4	No	No
7/29/21	18Downwind	23.9	7.75	No	No
7/30/21	1AUpwind	7.8	27.7	No	No
7/30/21	18Downwind	8.1	8.88	No	No
8/2/21	1AUpwind	23.9	10.6	No	No
8/2/21	18Downwind	23.9	14.0	No	No
8/3/21	1AUpwind	23.9	9.17	No	No
8/3/21	18Downwind	23.9	6.83	No	No
8/4/21	1AUpwind	24.0	6.99	No	No
8/4/21	18Downwind	24.0	4.54	No	No
8/5/21	1AUpwind	24.0	12.7	No	No
8/5/21	18Downwind	24.1	11.6	No	No
8/6/21	1AUpwind	8.2	23.6	No	No
8/6/21	18Downwind	8.4	22.1	No	No
8/9/21	1AUpwind	24.0	26.8	No	No
8/9/21	18Downwind	24.2	22.5	No	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period	PM10 Result	PM10 Exceedance? (Yes/No)	PM10 Exceedance? (Yes/No)
				5000 ^a	50 ^b
		Units		hours	(µg/m ³)
8/10/21	1AUpwind	24.0	26.2	No	No
8/10/21	18Downwind	23.9	20.0	No	No
8/11/21	1AUpwind	23.9	24.3	No	No
8/11/21	18Downwind	23.7	12.9	No	No
8/12/21	1AUpwind	23.9	19.4	No	No
8/12/21	18Downwind	24.2	14.4	No	No
8/13/21	1AUpwind	8.5	34.7	No	No
8/13/21	18Downwind	8.5	8.64	No	No
8/16/21	1AUpwind	23.7	53.6	No	Yes (Note 3)
8/16/21	18Downwind	23.7	32.5	No	No
8/17/21	1AUpwind	24.1	46.9	No	No
8/17/21	18Downwind	24.0	38.9	No	No
8/18/21	1AUpwind	23.8	46.1	No	No
8/18/21	18Downwind	23.7	38.8	No	No
8/19/21	1AUpwind	24.4	40.3	No	No
8/19/21	18Downwind	23.8	30.8	No	No
8/20/21	1AUpwind	8.4	69.3	No	Yes (Note 3)
8/20/21	18Downwind	8.3	36.9	No	No
8/23/21	1AUpwind	23.9	31.5	No	No
8/23/21	18Downwind	23.9	19.4	No	No
8/24/21	1AUpwind	23.6	36.5	No	No
8/24/21	18Downwind	24.2	18.0	No	No
8/25/21	1AUpwind	24.1	38.5	No	No
8/25/21	18Downwind	24.1	25.6	No	No
8/26/21	1AUpwind	24.3	40.7	No	No
8/26/21	18Downwind	23.6	26.0	No	No
8/27/21	1AUpwind	7.9	75.4	No	Yes (Note 3)
8/27/21	18Downwind	8.3	46.6	No	No
8/30/21	1AUpwind	23.8	57.0	No	Yes (Note 3)
8/30/21	18Downwind	23.9	34.8	No	No
8/31/21	1AUpwind	24.2	60.2	No	Yes (Note 3)
8/31/21	18Downwind	23.5	37.3	No	No
9/1/21	1AUpwind	24.1	105	No	Yes (Note 3)
9/1/21	18Downwind	24.1	35.8	No	No
9/2/21	1AUpwind	23.8	71.4	No	Yes (Note 3)
9/2/21	18Downwind	24.6	32.7	No	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period	PM10 Result	PM10 Exceedance? (Yes/No)	PM10 Exceedance? (Yes/No)
		≤ 25		5000 ^a	50 ^b
		hours		(µg/m ³)	(µg/m ³)
9/3/21	1AUpwind	9.0	53.9	No	Yes (Note 3)
9/3/21	18Downwind	8.2	34.8	No	No
9/7/21	1AUpwind	24.0	73.3	No	Yes (Note 3)
9/7/21	18Downwind	23.9	24.5	No	No
9/8/21	1AUpwind	24.1	55.3	No	Yes (Note 3)
9/8/21	18Downwind	24.1	16.2	No	No
9/9/21	1AUpwind	23.9	22.9	No	No
9/9/21	18Downwind	24.0	10.4	No	No
9/10/21	1AUpwind	8.1	14.4	No	No
9/10/21	18Downwind	8.0	ND	No	No
9/13/21	1AUpwind	24.0	44.1	No	No
9/13/21	18Downwind	24.0	34.1	No	No
9/14/21	1AUpwind	24.1	65.5	No	Yes (Note 3)
9/14/21	18Downwind	24.0	24.1	No	No
9/15/21	1AUpwind	24.0	102	No	Yes (Note 3)
9/15/21	18Downwind	24.0	22.5	No	No
9/16/21	1AUpwind	23.7	59.3	No	Yes (Note 3)
9/16/21	18Downwind	24.2	22.3	No	No
9/17/21	1AUpwind	8.2	44.9	No	No
9/17/21	18Downwind	7.8	24.6	No	No
9/20/21	1AUpwind	24.0	53.6	No	Yes (Note 3)
9/20/21	18Downwind	24.0	25.6	No	No
9/21/21	1AUpwind	24.0	42.9	No	No
9/21/21	18Downwind	24.0	43.0	No	No
9/22/21	1AUpwind	24.0	38.1	No	No
9/22/21	18Downwind	24.0	18.8	No	No
9/23/21	1AUpwind	24.0	29.7	No	No
9/23/21	18Downwind	23.9	18.1	No	No
9/24/21	1AUpwind	7.8	20.7	No	No
9/24/21	18Downwind	8.3	17.4	No	No
9/27/21	1AUpwind	23.9	13.7	No	No
9/27/21	18Downwind	23.3	6.39	No	No
9/28/21	1AUpwind	24.0	36.1	No	No
9/28/21	18Downwind	24.0	24.5	No	No
9/29/21	1AUpwind	24.0	40.1	No	No
9/29/21	18Downwind	24.0	21.0	No	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period	PM10 Result	PM10 Exceedance? (Yes/No)	PM10 Exceedance? (Yes/No)
				5000 ^a	50 ^b
		Units		hours	(µg/m ³)
9/30/21	1AUpwind	24.0	41.0	No	No
9/30/21	18Downwind	23.9	28.9	No	No
10/1/21	1AUpwind	7.9	43.7	No	No
10/1/21	18Downwind	8.1	23.3	No	No
10/4/21	1AUpwind	23.8	61.7	No	Yes (Note 3)
10/4/21	18Downwind	23.8	18.4	No	No
10/5/21	1AUpwind	24.0	47.9	No	No
10/5/21	18Downwind	24.0	10.2	No	No
10/6/21	1AUpwind	24.0	55.8	No	Yes (Note 3)
10/6/21	18Downwind	24.0	20.2	No	No
10/7/21	1AUpwind	24.0	53.8	No	Yes (Note 3)
10/7/21	18Downwind	24.0	18.6	No	No
10/8/21	1AUpwind	8.1	58.9	No	Yes (Note 3)
10/8/21	18Downwind	8.2	17.5	No	No
10/11/21	1AUpwind	23.7	30.5	No	No
10/11/21	18Downwind	23.8	20.4	No	No
10/12/21	1AUpwind	24.0	38.2	No	No
10/12/21	18Downwind	24.0	19.7	No	No
10/13/21	1AUpwind	11.2	48.9	No	No
10/13/21	18Downwind	24.2	15.2	No	No
10/14/21	1AUpwind	23.9	45.5	No	No
10/14/21	18Downwind	23.9	24.7	No	No
10/15/21	1AUpwind	8.2	36.9	No	No
10/15/21	18Downwind	8.0	23.5	No	No
10/18/21	1AUpwind	24.1	20.6	No	No
10/18/21	18Downwind	23.9	9.99	No	No
10/19/21	1AUpwind	8.3	32.5	No	No
10/19/21	18Downwind	7.9	35.4	No	No
10/20/21	1AUpwind	2.4	ND	No	No
10/20/21	18Downwind	2.0	ND	No	No
10/21/21	1AUpwind	21.2	7.07	No	No
10/21/21	18Downwind	21.1	8.07	No	No
10/22/21	1AUpwind	6.4	22.3	No	No
10/22/21	18Downwind	6.1	22.9	No	No
10/25/21	1AUpwind	24.0	18.3	No	No
10/25/21	18Downwind	23.8	20.5	No	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period	PM10 Result	PM10 Exceedance? (Yes/No)	PM10 Exceedance? (Yes/No)
		≤ 25		5000 ^a	50 ^b
		hours		(µg/m ³)	(µg/m ³)
10/26/21	1AUpwind	24.0	20.6	No	No
10/26/21	18Downwind	24.0	27.2	No	No
10/27/21	1AUpwind	3.8	22.0	No	No
10/27/21	18Downwind	3.7	49.9	No	No
11/1/21	1AUpwind	24.1	4.65	No	No
11/1/21	18Downwind	23.8	8.70	No	No
11/2/21	1AUpwind	23.9	17.4	No	No
11/2/21	18Downwind	23.9	22.8	No	No
11/3/21	1AUpwind	24.2	13.7	No	No
11/3/21	18Downwind	23.9	19.2	No	No
11/4/21	1AUpwind	24.0	33.5	No	No
11/4/21	18Downwind	23.9	39.7	No	No
11/5/21	1AUpwind	8.3	44.1	No	No
11/5/21	18Downwind	8.3	33.0	No	No
11/8/21	1AUpwind	23.9	9.00	No	No
11/8/21	18Downwind	24.2	16.0	No	No
11/9/21	1AUpwind	24.0	10.4	No	No
11/9/21	18Downwind	23.7	6.96	No	No
11/10/21	1AUpwind	24.3	13.8	No	No
11/10/21	18Downwind	24.3	20.1	No	No
11/11/21	1AUpwind	24.0	16.1	No	No
11/11/21	18Downwind	24.0	20.3	No	No
11/12/21	1AUpwind	23.6	15.6	No	No
11/12/21	18Downwind	24.1	19.8	No	No
11/13/21	1AUpwind	7.8	9.66	No	No
11/13/21	18Downwind	7.6	17.7	No	No
11/15/21	1AUpwind	23.8	16.6	No	No
11/15/21	18Downwind	23.8	20.9	No	No
11/16/21	1AUpwind	23.9	18.7	No	No
11/16/21	18Downwind	24.1	19.1	No	No
11/17/21	1AUpwind	24.6	19.3	No	No
11/17/21	18Downwind	24.8	18.7	No	No
11/18/21	1AUpwind	23.8	17.2	No	No
11/18/21	18Downwind	23.3	21.1	No	No
11/19/21	1AUpwind	23.8	8.3	No	No
11/19/21	18Downwind	23.8	14.3	No	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period	PM10 Result	PM10 Exceedance? (Yes/No)	PM10 Exceedance? (Yes/No)
				5000 ^a	50 ^b
				(µg/m ³)	(µg/m ³)
Action Level		≤ 25			
Units		hours	(µg/m ³)	(µg/m ³)	(µg/m ³)
11/20/21	1AUpwind	7.6	7.2	No	No
11/20/21	18Downwind	7.7	12.1	No	No
11/22/21	1AUpwind	24.0	17.3	No	No
11/22/21	18Downwind	23.9	23.1	No	No
11/23/21	1AUpwind	9.8	19.3	No	No
11/23/21	18Downwind	9.8	16.8	No	No
11/29/21	1AUpwind	24.02	16.2	No	No
11/29/21	18Downwind	23.50	16.7	No	No
11/30/21	1AUpwind	23.92	20.4	No	No
11/30/21	18Downwind	23.88	22.1	No	No
12/1/21	1AUpwind	23.88	25.8	No	No
12/1/21	18Downwind	24.13	34.2	No	No
12/2/21	1AUpwind	24.45	20.2	No	No
12/2/21	18Downwind	24.23	28.4	No	No
12/3/21	1AUpwind	23.68	10.4	No	No
12/3/21	18Downwind	23.65	13.4	No	No
12/4/21	1AUpwind	7.80	13.6	No	No
12/4/21	18Downwind	7.78	22.5	No	No
12/6/21	1AUpwind	23.87	26.9	No	No
12/6/21	18Downwind	23.92	33.6	No	No
12/7/21	1AUpwind	24.00	7.9	No	No
12/7/21	18Downwind	24.00	9.6	No	No
12/8/21	1AUpwind	23.92	7.1	No	No
12/8/21	18Downwind	23.92	6.5	No	No
12/9/21	1AUpwind	24.50	20.1	No	No
12/9/21	18Downwind	24.45	19.9	No	No
12/10/21	1AUpwind	8.57	34.2	No	No
12/10/21	18Downwind	8.82	24.2	No	No
6/2/22	1AUpwind	24.2	65.8	No	Yes (Notes 1, 3)
6/2/22	18Downwind	24.0	4.35	No	No
6/3/22	1AUpwind	7.5	27.5	No	No
6/3/22	18Downwind	7.0	12.6	No	No
6/6/22	1AUpwind	24.1	38.2	No	No
6/6/22	18Downwind	23.9	44.2	No	No
6/7/22	1AUpwind	24.2	42.7	No	No
6/7/22	18Downwind	24.0	27.5	No	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period	PM10 Result ($\mu\text{g}/\text{m}^3$)	PM10 Exceedance? (Yes/No)	PM10 Exceedance? (Yes/No)
		≤ 25		5000 ^a	50 ^b
		Units hours		($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)
6/8/22	1AUpwind	23.7	44.4	No	No
6/8/22	18Downwind	24.0	16.9	No	No
6/9/22	1AUpwind	24.6	44.2	No	No
6/9/22	18Downwind	24.1	24.7	No	No
6/10/22	1AUpwind	7.4	24.7	No	No
6/10/22	18Downwind	7.0	23.5	No	No
6/13/22	1AUpwind	23.5	58.6	No	Yes (Note 3)
6/13/22	18Downwind	23.7	26.9	No	No
6/14/22	1AUpwind	24.0	68.0	No	Yes (Notes 1, 3)
6/14/22	18Downwind	24.1	34.1	No	No
6/15/22	1AUpwind	24.0	93.3	No	Yes (Note 3)
6/15/22	18Downwind	24.1	27.8	No	No
6/16/22	1AUpwind	24.0	112	No	Yes (Note 3)
6/16/22	18Downwind	23.8	19.0	No	No
6/17/22	1AUpwind	7.4	43.8	No	No
6/17/22	18Downwind	7.0	15.6	No	No
6/20/22	1AUpwind	23.8	42.4	No	No
6/20/22	18Downwind	24.0	25.9	No	No
6/21/22	1AUpwind	24.1	46.2	No	No
6/21/22	18Downwind	23.9	27.1	No	No
6/22/22	1AUpwind	24.6	52.4	No	No (Note 2)
6/22/22	18Downwind	24.2	22.4	No	No
6/23/22	1AUpwind	24.0	58.5	No	No (Note 2)
6/23/22	18Downwind	24.0	11.9	No	No
6/24/22	1AUpwind	7.4	76.9	No	No (Note 2)
6/24/22	18Downwind	7.0	17.7	No	No
6/27/22	1AUpwind	24.5	40.2	No	No
6/27/22	18Downwind	23.9	17.8	No	No
6/28/22	1AUpwind	24	63.9	No	Yes (Note 3)
6/28/22	18Downwind	23.9	24.7	No	No
6/29/22	1AUpwind	24	19.8	No	No
6/29/22	18Downwind	23.9	15.4	No	No
6/30/22	1AUpwind	23.9	30.2	No	No
6/30/22	18Downwind	24.1	15.3	No	No
7/1/22	1AUpwind	6	38.5	No	No
7/1/22	18Downwind	6	21.6	No	No

Attachment 1, Table 3: PM10 Air Sampling Results

Notes:

Note 1: Elevated particulate matter levels observed regionally. This exceedance is likely not due to site activities.

Note 2: Based on wind direction and wind speed, site-related PM10 concentrations were below the 50 µg/m³ action level.

Note 3: Upwind air sample result is above the action level; however, the downwind result is below the action level.

Note 4: Sample not collected due to inclement conditions (rain).

Note 5: Sample not collected because the site was temporarily shut down and no workers were onsite.

BAAQMD implements the CSAAQS for the Bay Area. The CSAAQS is designed to protect the general public from airborne particulates generated in the urban, suburban, and rural environments. The CSAAQS is not meant to be applied to general project-specific construction actions and related air quality. Rather, the standard is used to attain city- or regional-wide ambient air quality goals for the benefit of the general public. The current CSAAQS for PM10 is 50 µg/m³ average per 24-hour day. The City and County of San Francisco is currently a non-attainment area for the CSAAQS for PM10.

Sample locations are shown on Figure 1.

^a Cal/OSHA PEL (on-site workers)

^b DTSC HERO developed action level (residents and public receptors), based on the CSAAQS

≤ - less than or equal to

µg/m³ - microgram per cubic meter

BAAQMD - Bay Area Air Quality Management District

Cal/OSHA - California Occupational Safety and Health Administration

CSAAQS - California State ambient air quality standard

DTSC - California Department of Toxic Substances Control

HERO - Human and Ecological Risk Office

PEL - permissible exposure limit

PM10 - particulate matter smaller than 10 microns in diameter

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period	Asbestos	Asbestos Exceedance? (Yes/No)
Action Level		≤ 25	0.1	
Units		hours	(fibers/cm ³)	
8/24/20	1Upwind	24.3	<0.0009	No
8/24/20	17Downwind	24.2	<0.0009	No
8/25/20	1Upwind	23.9	<0.0009	No
8/25/20	17Downwind	24.3	<0.0009	No
8/26/20	1Upwind	24.6	<0.0009	No
8/26/20	17Downwind	24.1	<0.0009	No
8/27/20	1Upwind	24.1	<0.0009	No
8/27/20	17Downwind	24.1	<0.0009	No
8/28/20	1Upwind	8.3	<0.0030	No
8/28/20	17Downwind	8.1	<0.0032	No
8/31/20	1Upwind	23.9	<0.0009	No
8/31/20	17Downwind	23.7	<0.0009	No
9/1/20	1Upwind	24.2	<0.0009	No
9/1/20	17Downwind	24.1	Note 2	No
9/2/20	1Upwind	23.6	<0.0010	No
9/2/20	17Downwind	23.6	Note 2	No
9/3/20	1Upwind	23.9	0.0019	No
9/3/20	17Downwind	23.9	0.0010	No
9/4/20	1Upwind	8.3	<0.0027	No
9/4/20	17Downwind	8.1	<0.0028	No
9/8/20	1Upwind	23.9	0.0014	No
9/8/20	17ADownwind	24.2	0.0010	No
9/9/20	1Upwind	23.9	<0.0009	No
9/9/20	17ADownwind	24.0	<0.0009	No
9/10/20	1Upwind	24.3	Note 2	No
9/10/20	17ADownwind	24.2	Note 2	No
9/11/20	1Upwind	7.5	<0.0030	No
9/11/20	17ADownwind	7.2	<0.0031	No
9/14/20	1Upwind	24.4	<0.0009	No
9/14/20	17ADownwind	24.4	<0.0009	No
9/15/20	1Upwind	23.8	0.0013	No
9/15/20	17ADownwind	23.9	<0.0009	No
9/16/20	1Upwind	23.3	0.0018	No
9/16/20	17ADownwind	23.7	<0.0009	No
9/17/20	1Upwind	24.2	<0.0009	No
9/17/20	17ADownwind	24.3	<0.0009	No
9/18/20	1Upwind	8.1	0.0038	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period	Asbestos	Asbestos Exceedance? (Yes/No)
Action Level		≤ 25	0.1	
Units		hours	(fibers/cm ³)	
9/18/20	17ADownwind	7.3	<0.0031	No
9/21/20	1Upwind	23.9	<0.0009	No
9/21/20	17ADownwind	24.2	<0.0009	No
9/22/20	1Upwind	23.4	<0.0010	No
9/22/20	17ADownwind	23.5	<0.0010	No
9/23/20	1Upwind	23.9	0.0012	No
9/23/20	17ADownwind	24.7	<0.0009	No
9/24/20	1Upwind	24.3	0.0017	No
9/24/20	17ADownwind	24.6	<0.0009	No
9/25/20	1Upwind	3.8	<0.0059	No
9/25/20	17ADownwind	7.1	<0.0032	No
9/28/20	1Upwind	23.9	<0.0009	No
9/28/20	17ADownwind	23.8	<0.0009	No
9/29/20	1Upwind	24.2	<0.0009	No
9/29/20	17ADownwind	24.0	<0.0009	No
9/30/20	1Upwind	24.5	<0.0009	No
9/30/20	17ADownwind	24.4	<0.0009	No
10/1/20	1Upwind	23.4	<0.0010	No
10/1/20	17ADownwind	23.9	<0.0009	No
10/2/20	1Upwind	8.0	<0.0028	No
10/2/20	17ADownwind	7.5	<0.0031	No
10/5/20	1Upwind	24.2	<0.0009	No
10/5/20	17ADownwind	24.3	<0.0009	No
10/6/20	1Upwind	24.5	<0.0009	No
10/6/20	17ADownwind	24.8	<0.0009	No
10/7/20	1Upwind	23.6	<0.0010	No
10/7/20	17ADownwind	23.6	<0.0010	No
10/8/20	1Upwind	23.6	<0.0010	No
10/8/20	17ADownwind	23.2	<0.0010	No
10/9/20	1Upwind	8.0	<0.0028	No
10/9/20	17ADownwind	8.0	<0.0028	No
10/12/20	1Upwind	23.9	0.0011	No
10/12/20	17ADownwind	23.9	0.0017	No
10/13/20	1Upwind	24.2	0.0012	No
10/13/20	17ADownwind	24.2	0.0010	No
10/14/20	1Upwind	23.8	0.0024	No
10/14/20	17ADownwind	24.0	0.0013	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period	Asbestos	Asbestos Exceedance? (Yes/No)
Action Level		≤ 25	0.1	
Units		hours	(fibers/cm ³)	
10/15/20	1Upwind	23.8	0.0034	No
10/15/20	17ADownwind	24.1	0.0026	No
10/16/20	1Upwind	8.1	<0.0028	No
10/16/20	17ADownwind	7.6	0.0030	No
10/19/20	1Upwind	23.5	<0.0009	No
10/19/20	17ADownwind	24.3	<0.0009	No
10/20/20	1Upwind	24.0	<0.0009	No
10/20/20	17ADownwind	23.6	<0.0005	No
10/21/20	1Upwind	24.0	<0.0009	No
10/21/20	17ADownwind	24.0	<0.0009	No
10/22/20	1Upwind	24.1	0.0012	No
10/22/20	17ADownwind	24.1	<0.0009	No
10/23/20	1Upwind	7.9	<0.0028	No
10/23/20	17ADownwind	7.8	<0.0030	No
10/24/20	1Upwind	8.3	<0.0027	No
10/24/20	17ADownwind	8.4	<0.0027	No
10/26/20	1Upwind	24.0	0.0018	No
10/26/20	17ADownwind	23.5	0.0037	No
10/27/20	1Upwind	23.7	0.0025	No
10/27/20	17ADownwind	23.7	0.0023	No
10/28/20	1Upwind	24.2	0.0015	No
10/28/20	17ADownwind	24.2	<0.0009	No
10/29/20	1Upwind	23.8	0.0015	No
10/29/20	17ADownwind	24.3	0.0013	No
10/30/20	1Upwind	25.5	0.0010	No
10/30/20	17ADownwind	23.4	0.0011	No
10/31/20	1Upwind	6.4	<0.0035	No
10/31/20	18Downwind	6.5	<0.0035	No
11/2/20	1Upwind	24.1	<0.0009	No
11/2/20	18Downwind	24.1	0.0012	No
11/3/20	1Upwind	24.2	<0.0009	No
11/3/20	18Downwind	24.2	<0.0009	No
11/4/20	1Upwind	23.9	<0.0009	No
11/4/20	18Downwind	23.9	<0.0009	No
11/5/20	1Upwind	24.1	<0.0009	No
11/5/20	18Downwind	24.1	<0.0009	No
11/6/20	1Upwind	23.7	<0.0009	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period	Asbestos	Asbestos Exceedance? (Yes/No)
Action Level		≤ 25	0.1	
Units		hours	(fibers/cm ³)	
11/6/20	18Downwind	24.2	<0.0009	No
11/7/20	1Upwind	7.2	<0.0031	No
11/7/20	18Downwind	6.7	<0.0034	No
11/9/20	1Upwind	23.8	<0.0009	No
11/9/20	18Downwind	23.9	<0.0009	No
11/10/20	1Upwind	23.8	<0.0009	No
11/10/20	18Downwind	24.1	<0.0009	No
11/11/20	1Upwind	24.2	<0.0009	No
11/11/20	18Downwind	23.9	<0.0009	No
11/12/20	1Upwind	24.1	<0.0009	No
11/12/20	18Downwind	24.0	<0.0009	No
11/13/20	1Upwind	5.8	<0.0008	No
11/13/20	18Downwind	5.8	<0.0008	No
11/16/20	1Upwind	24.6	0.0012	No
11/16/20	18Downwind	24.6	<0.0009	No
11/17/20	1Upwind	27.1	<0.0008	No
11/17/20	18Downwind	27.1	<0.0008	No
11/18/20	1Upwind	24.1	<0.0009	No
11/18/20	18Downwind	24.0	<0.0009	No
11/19/20	1Upwind	24.5	<0.0009	No
11/19/20	18Downwind	24.4	<0.0009	No
11/20/20	1Upwind	23.6	<0.0009	No
11/20/20	18Downwind	23.7	<0.0009	No
11/21/20	1Upwind	6.5	<0.0034	No
11/21/20	18Downwind	6.6	<0.0034	No
11/23/20	1Upwind	24.1	0.0017	No
11/23/20	18Downwind	24.0	<0.0009	No
11/24/20	1Upwind	24.5	0.0010	No
11/24/20	18Downwind	24.6	<0.0009	No
11/25/20	1Upwind	8.0	<0.0028	No
11/25/20	18Downwind	8.3	<0.0027	No
11/30/20	1Upwind	23.1	<0.0010	No
11/30/20	18Downwind	23.9	<0.0009	No
12/1/20	1Upwind	23.4	<0.0010	No
12/1/20	18Downwind	24.0	<0.0009	No
12/2/20	1Upwind	24.3	<0.0009	No
12/2/20	18Downwind	24.4	<0.0009	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period	Asbestos	Asbestos Exceedance? (Yes/No)
Action Level		≤ 25	0.1	
Units		hours	(fibers/cm ³)	
12/3/20	1Upwind	23.7	<0.0009	No
12/3/20	18Downwind	23.5	0.0025	No
12/4/20	1Upwind	23.8	<0.0009	No
12/4/20	18Downwind	24.1	<0.0009	No
12/5/20	1Upwind	7.1	<0.0030	No
12/5/20	18Downwind	7.1	<0.0030	No
12/7/20	1Upwind	23.9	<0.0009	No
12/7/20	18Downwind	23.9	0.0012	No
12/8/20	1Upwind	24.1	0.0012	No
12/8/20	18Downwind	24.0	0.0010	No
12/9/20	1Upwind	23.8	<0.0009	No
12/9/20	18Downwind	23.9	<0.0009	No
12/10/20	1Upwind	24.0	<0.0009	No
12/10/20	18Downwind	24.1	<0.0009	No
12/11/20	1Upwind	8.8	<0.0026	No
12/11/20	18Downwind	9.0	<0.0025	No
12/12/20	1Upwind	7.2	<0.0030	No
12/12/20	18Downwind	7.3	<0.0030	No
12/14/20	1Upwind	24.1	<0.0009	No
12/14/20	18Downwind	24.1	<0.0009	No
12/15/20	1Upwind	24.1	<0.0009	No
12/15/20	18Downwind	24.0	<0.0009	No
12/16/20	1Upwind	7.6	<0.0030	No
12/16/20	18Downwind	7.7	<0.0029	No
12/17/20	1Upwind	24.3	<0.0009	No
12/17/20	18Downwind	24.2	0.0015	No
12/18/20	1Upwind	8.7	<0.0026	No
12/18/20	18Downwind	8.7	<0.0026	No
12/21/20	1Upwind	23.6	<0.0010	No
12/21/20	18Downwind	23.6	<0.0010	No
12/22/20	1Upwind	3.6	<0.0063	No
12/22/20	18Downwind	3.6	<0.0063	No
12/23/20	1Upwind	Note 3	Note 3	Note 3
12/23/20	18Downwind	Note 3	Note 3	Note 3
12/28/20	1Upwind	Note 3	Note 3	Note 3
12/28/20	18Downwind	Note 3	Note 3	Note 3
12/29/20	1Upwind	Note 3	Note 3	Note 3

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period	Asbestos	Asbestos Exceedance? (Yes/No)
Action Level		≤ 25	0.1	
Units		hours	(fibers/cm ³)	
12/29/20	18Downwind	Note 3	Note 3	Note 3
12/30/20	1Upwind	Note 3	Note 3	Note 3
12/30/20	18Downwind	Note 3	Note 3	Note 3
12/31/20	1Upwind	Note 3	Note 3	Note 3
12/31/20	18Downwind	Note 3	Note 3	Note 3
1/4/21	1Upwind	Note 1	Note 1	Note 1
1/4/21	18Downwind	Note 1	Note 1	Note 1
1/5/21	1Upwind	24.0	<0.0010	No
1/5/21	18Downwind	23.9	<0.0010	No
1/6/21	1Upwind	4.3	<0.0053	No
1/6/21	18Downwind	4.5	<0.0050	No
1/7/21	1Upwind	23.7	<0.0009	No
1/7/21	18Downwind	23.8	<0.0009	No
1/8/21	1Upwind	2.6	<0.0087	No
1/8/21	18Downwind	2.6	<0.0087	No
1/11/21	1Upwind	23.8	<0.0009	No
1/11/21	18Downwind	24.2	<0.0009	No
1/12/21	1Upwind	24.3	<0.0009	No
1/12/21	18Downwind	23.9	<0.0009	No
1/13/21	1Upwind	24.0	<0.0009	No
1/13/21	18Downwind	24.0	<0.0009	No
1/14/21	1Upwind	23.6	0.0017	No
1/14/21	18Downwind	24.1	0.0014	No
1/15/21	1Upwind	7.3	<0.0031	No
1/15/21	18Downwind	7.0	<0.0032	No
1/19/21	1Upwind	23.5	<0.0010	No
1/19/21	18Downwind	23.4	<0.0010	No
1/20/21	1Upwind	24.1	<0.0009	No
1/20/21	18Downwind	24.2	<0.0009	No
1/21/21	1Upwind	9.5	<0.0024	No
1/21/21	18Downwind	9.1	<0.0025	No
1/22/21	1Upwind	3.8	<0.0060	No
1/22/21	18Downwind	3.5	<0.0064	No
1/25/21	1Upwind	23.7	<0.0009	No
1/25/21	18Downwind	23.7	<0.0009	No
1/26/21	1Upwind	Note 3	Note 3	Note 3
1/26/21	18Downwind	Note 3	Note 3	Note 3

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period	Asbestos	Asbestos Exceedance? (Yes/No)
Action Level		≤ 25	0.1	
Units		hours	(fibers/cm ³)	
1/27/21	1Upwind	Note 3	Note 3	Note 3
1/27/21	18Downwind	Note 3	Note 3	Note 3
1/28/21	1Upwind	Note 3	Note 3	Note 3
1/28/21	18Downwind	Note 3	Note 3	Note 3
1/29/21	1Upwind	Note 3	Note 3	Note 3
1/29/21	18Downwind	Note 3	Note 3	Note 3
2/1/21	1Upwind	Note 3	Note 3	Note 3
2/1/21	18Downwind	Note 3	Note 3	Note 3
2/2/21	1Upwind	Note 3	Note 3	Note 3
2/2/21	18Downwind	Note 3	Note 3	Note 3
2/3/21	1Upwind	Note 3	Note 3	Note 3
2/3/21	18Downwind	Note 3	Note 3	Note 3
2/4/21	1Upwind	24.1	0.0013	No
2/4/21	18Downwind	24.2	<0.0009	No
2/5/21	1Upwind	7.6	<0.0029	No
2/5/21	18Downwind	7.1	<0.0032	No
2/8/21	1Upwind	23.2	<0.0010	No
2/8/21	18Downwind	23.3	<0.0010	No
2/9/21	1Upwind	23.6	<0.0010	No
2/9/21	18Downwind	23.7	<0.0009	No
2/10/21	1Upwind	23.8	<0.0009	No
2/10/21	18Downwind	24.2	<0.0009	No
2/11/21	1Upwind	5.4	<0.0041	No
2/11/21	18Downwind	5.2	<0.0043	No
2/12/21	1Upwind	7.7	<0.0029	No
2/12/21	18Downwind	7.2	<0.0031	No
2/15/21	1Upwind	Note 1	Note 1	Note 1
2/15/21	18Downwind	Note 1	Note 1	Note 1
2/16/21	1Upwind	24.5	<0.0009	No
2/16/21	18Downwind	23.6	<0.0010	No
5/24/21	1Upwind	Note 4	Note 4	Note 4
5/24/21	18Downwind	Note 4	Note 4	Note 4
5/25/21	1Upwind	24.0	0.0010	No
5/25/21	18Downwind	24.0	<0.0009	No
5/26/21	1Upwind	Note 5	Note 5	Note 5
5/26/21	18Downwind	24.0	<0.0009	No
5/27/21	1Upwind	23.9	<0.0009	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period	Asbestos	Asbestos Exceedance? (Yes/No)
Action Level		≤ 25	0.1	
Units		hours	(fibers/cm ³)	
5/27/21	18Downwind	23.9	<0.0009	No
5/28/21	1Upwind	8.0	<0.0028	No
5/28/21	18Downwind	7.5	<0.0030	No
6/1/21	1Upwind	23.7	<0.0009	No
6/1/21	18Downwind	24.1	<0.0009	No
6/2/21	1Upwind	23.9	<0.0009	No
6/2/21	18Downwind	24.0	<0.0009	No
6/3/21	1Upwind	24.1	<0.0009	No
6/3/21	18Downwind	24.0	<0.0009	No
6/4/21	1Upwind	8.0	<0.0028	No
6/4/21	18Downwind	7.7	<0.0029	No
6/7/21	1Upwind	24.1	0.0012	No
6/7/21	18Downwind	24.1	<0.0009	No
6/8/21	1Upwind	24.0	<0.0009	No
6/8/21	18Downwind	24.1	<0.0009	No
6/9/21	1Upwind	24.1	<0.0009	No
6/9/21	18Downwind	24.0	<0.0009	No
6/10/21	1Upwind	23.9	<0.0009	No
6/10/21	18Downwind	24.0	<0.0009	No
6/11/21	1Upwind	8.3	<0.0027	No
6/11/21	18Downwind	8.2	<0.0028	No
6/14/21	1Upwind	23.6	<0.0010	No
6/14/21	18Downwind	23.9	<0.0009	No
6/15/21	1Upwind	23.9	0.0010	No
6/15/21	18Downwind	24.0	<0.0009	No
6/16/21	1Upwind	24.1	0.0010	No
6/16/21	18Downwind	24.0	<0.0009	No
6/17/21	1Upwind	24.1	0.0012	No
6/17/21	18Downwind	24.1	0.0032	No
6/18/21	1Upwind	8.1	<0.0028	No
6/18/21	18Downwind	8.1	<0.0028	No
6/21/21	1Upwind	23.7	<0.0009	No
6/21/21	18Downwind	23.8	<0.0009	No
6/22/21	1Upwind	24.0	<0.0009	No
6/22/21	18Downwind	24.0	<0.0009	No
6/23/21	1Upwind	24.0	<0.0009	No
6/23/21	18Downwind	24.0	<0.0009	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period	Asbestos	Asbestos Exceedance? (Yes/No)
Action Level		≤ 25	0.1	
Units		hours	(fibers/cm ³)	
6/24/21	1Upwind	24.1	<0.0009	No
6/24/21	18Downwind	24.1	<0.0009	No
6/25/21	1Upwind	8.2	<0.0028	No
6/25/21	18Downwind	7.9	<0.0028	No
6/28/21	1Upwind	24.0	<0.0009	No
6/28/21	18Downwind	24.0	<0.0009	No
6/29/21	1Upwind	24.1	<0.0009	No
6/29/21	18Downwind	24.0	<0.0009	No
6/30/21	1Upwind	23.8	<0.0009	No
6/30/21	18Downwind	23.9	<0.0009	No
7/1/21	1Upwind	24.0	<0.0009	No
7/1/21	18Downwind	24.0	<0.0009	No
7/2/21	1Upwind	8.2	<0.0028	No
7/2/21	18Downwind	7.9	<0.0028	No
7/6/21	1AUpwind	22.5	<0.0010	No
7/6/21	18Downwind	23.0	<0.0010	No
7/7/21	1AUpwind	24.2	0.0013	No
7/7/21	18Downwind	24.1	<0.0009	No
7/8/21	1AUpwind	24.0	<0.0009	No
7/8/21	18Downwind	23.9	<0.0009	No
7/9/21	1AUpwind	8.2	<0.0027	No
7/9/21	18Downwind	7.9	<0.0028	No
7/12/21	1AUpwind	23.7	<0.0009	No
7/12/21	18Downwind	23.4	<0.0010	No
7/13/21	1AUpwind	24.1	<0.0009	No
7/13/21	18Downwind	24.1	<0.0009	No
7/14/21	1AUpwind	24.2	<0.0009	No
7/14/21	18Downwind	23.8	<0.0009	No
7/15/21	1AUpwind	24.1	0.0012	No
7/15/21	18Downwind	24.1	<0.0009	No
7/16/21	1AUpwind	8.1	<0.0028	No
7/16/21	18Downwind	7.9	<0.0028	No
7/19/21	1AUpwind	24.1	0.0011	No
7/19/21	18Downwind	24.1	<0.0009	No
7/20/21	1AUpwind	23.7	<0.0009	No
7/20/21	18Downwind	24.1	<0.0009	No
7/21/21	1AUpwind	24.2	<0.0009	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period	Asbestos	Asbestos Exceedance? (Yes/No)
Action Level		≤ 25	0.1	
Units		hours	(fibers/cm ³)	
7/21/21	18Downwind	23.8	<0.0009	No
7/22/21	1AUpwind	23.9	0.0010	No
7/22/21	18Downwind	23.9	<0.0009	No
7/23/21	1AUpwind	7.7	<0.0029	No
7/23/21	18Downwind	8.0	<0.0028	No
7/26/21	1AUpwind	23.5	<0.0010	No
7/26/21	18Downwind	23.8	<0.0009	No
7/27/21	1AUpwind	24.0	<0.0009	No
7/27/21	18Downwind	23.7	<0.0009	No
7/28/21	1AUpwind	24.2	0.0011	No
7/28/21	18Downwind	24.2	<0.0009	No
7/29/21	1AUpwind	23.9	<0.0009	No
7/29/21	18Downwind	23.9	<0.0009	No
7/30/21	1AUpwind	7.8	<0.0029	No
7/30/21	18Downwind	8.1	<0.0028	No
8/2/21	1AUpwind	23.9	<0.0009	No
8/2/21	18Downwind	23.9	<0.0009	No
8/3/21	1AUpwind	23.9	<0.0009	No
8/3/21	18Downwind	23.9	<0.0009	No
8/4/21	1AUpwind	24.0	<0.0009	No
8/4/21	18Downwind	24.0	<0.0009	No
8/5/21	1AUpwind	24.0	<0.0009	No
8/5/21	18Downwind	24.1	<0.0009	No
8/6/21	1AUpwind	8.2	<0.0027	No
8/6/21	18Downwind	8.4	<0.0027	No
8/9/21	1AUpwind	24.0	0.0010	No
8/9/21	18Downwind	24.2	<0.0009	No
8/10/21	1AUpwind	24.0	0.0010	No
8/10/21	18Downwind	23.9	<0.0009	No
8/11/21	1AUpwind	23.9	0.0010	No
8/11/21	18Downwind	23.7	<0.0009	No
8/12/21	1AUpwind	23.9	<0.0009	No
8/12/21	18Downwind	24.2	<0.0009	No
8/13/21	1AUpwind	8.5	<0.0026	No
8/13/21	18Downwind	8.5	<0.0026	No
8/16/21	1AUpwind	23.7	<0.0009	No
8/16/21	18Downwind	23.7	<0.0009	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period	Asbestos	Asbestos Exceedance? (Yes/No)
Action Level		≤ 25	0.1	
Units		hours	(fibers/cm ³)	
8/17/21	1AUpwind	24.1	<0.0009	No
8/17/21	18Downwind	24.0	<0.0009	No
8/18/21	1AUpwind	23.8	0.0018	No
8/18/21	18Downwind	23.7	0.0010	No
8/19/21	1AUpwind	24.4	0.0027	No
8/19/21	18Downwind	23.8	<0.0009	No
8/20/21	1AUpwind	8.4	<0.0027	No
8/20/21	18Downwind	8.3	<0.0027	No
8/23/21	1AUpwind	23.9	<0.0009	No
8/23/21	18Downwind	23.9	<0.0009	No
8/24/21	1AUpwind	23.6	<0.0010	No
8/24/21	18Downwind	24.2	<0.0009	No
8/25/21	1AUpwind	24.1	<0.0009	No
8/25/21	18Downwind	24.1	<0.0009	No
8/26/21	1AUpwind	24.3	<0.0009	No
8/26/21	18Downwind	23.6	<0.0010	No
8/27/21	1AUpwind	7.9	<0.0028	No
8/27/21	18Downwind	8.3	<0.0027	No
8/30/21	1AUpwind	23.8	0.0015	No
8/30/21	18Downwind	23.9	<0.0009	No
8/31/21	1AUpwind	24.2	<0.0009	No
8/31/21	18Downwind	23.5	0.0012	No
9/1/21	1AUpwind	24.1	0.0019	No
9/1/21	18Downwind	24.1	<0.0009	No
9/2/21	1AUpwind	23.8	<0.0009	No
9/2/21	18Downwind	24.6	<0.0009	No
9/3/21	1AUpwind	9.0	<0.0025	No
9/3/21	18Downwind	8.2	<0.0028	No
9/7/21	1AUpwind	24.0	<0.0009	No
9/7/21	18Downwind	23.9	<0.0009	No
9/8/21	1AUpwind	24.1	<0.0009	No
9/8/21	18Downwind	24.1	<0.0009	No
9/9/21	1AUpwind	23.9	<0.0009	No
9/9/21	18Downwind	24.0	<0.0009	No
9/10/21	1AUpwind	8.1	<0.0028	No
9/10/21	18Downwind	8.0	<0.0028	No
9/13/21	1AUpwind	24.0	<0.0009	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period	Asbestos	Asbestos Exceedance? (Yes/No)
Action Level		≤ 25	0.1	
Units		hours	(fibers/cm ³)	
9/13/21	18Downwind	24.0	<0.0009	No
9/14/21	1AUpwind	24.1	<0.0009	No
9/14/21	18Downwind	24.0	<0.0009	No
9/15/21	1AUpwind	24.0	<0.0009	No
9/15/21	18Downwind	24.0	<0.0009	No
9/16/21	1AUpwind	23.7	<0.0009	No
9/16/21	18Downwind	24.2	<0.0009	No
9/17/21	1AUpwind	8.2	<0.0027	No
9/17/21	18Downwind	7.8	<0.0029	No
9/20/21	1AUpwind	24.0	<0.0009	No
9/20/21	18Downwind	24.0	<0.0009	No
9/21/21	1AUpwind	24.0	0.0012	No
9/21/21	18Downwind	24.0	0.0014	No
9/22/21	1AUpwind	24.0	0.0010	No
9/22/21	18Downwind	24.0	<0.0009	No
9/23/21	1AUpwind	24.0	<0.0009	No
9/23/21	18Downwind	23.9	<0.0009	No
9/24/21	1AUpwind	7.8	0.0037	No
9/24/21	18Downwind	8.3	<0.0027	No
9/27/21	1AUpwind	23.9	0.0010	No
9/27/21	18Downwind	23.3	0.0019	No
9/28/21	1AUpwind	24.0	<0.0009	No
9/28/21	18Downwind	24.0	<0.0009	No
9/29/21	1AUpwind	24.0	0.0022	No
9/29/21	18Downwind	24.0	0.0013	No
9/30/21	1AUpwind	24.0	<0.0009	No
9/30/21	18Downwind	23.9	<0.0009	No
10/1/21	1AUpwind	7.9	0.0039	No
10/1/21	18Downwind	8.1	<0.0028	No
10/4/21	1AUpwind	23.8	<0.0009	No
10/4/21	18Downwind	23.8	<0.0009	No
10/5/21	1AUpwind	24.0	<0.0009	No
10/5/21	18Downwind	24.0	<0.0009	No
10/6/21	1AUpwind	24.0	<0.0009	No
10/6/21	18Downwind	24.0	<0.0009	No
10/7/21	1AUpwind	24.0	<0.0009	No
10/7/21	18Downwind	24.0	<0.0009	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period	Asbestos	Asbestos Exceedance? (Yes/No)
Action Level		≤ 25	0.1	
Units		hours	(fibers/cm ³)	
10/8/21	1AUpwind	8.1	<0.0028	No
10/8/21	18Downwind	8.2	<0.0027	No
10/11/21	1AUpwind	23.7	<0.0009	No
10/11/21	18Downwind	23.8	<0.0009	No
10/12/21	1AUpwind	24.0	0.0011	No
10/12/21	18Downwind	24.0	<0.0009	No
10/13/21	1AUpwind	24.1	<0.0009	No
10/13/21	18Downwind	24.2	<0.0009	No
10/14/21	1AUpwind	23.9	0.0015	No
10/14/21	18Downwind	23.9	<0.0009	No
10/15/21	1AUpwind	8.2	<0.0028	No
10/15/21	18Downwind	8.0	<0.0028	No
10/15/21	18Downwind	8.0	<0.0028	No
10/18/21	1AUpwind	24.1	0.0010	No
10/18/21	18Downwind	23.9	<0.0009	No
10/19/21	1AUpwind	8.3	<0.0027	No
10/19/21	18Downwind	7.9	<0.0028	No
10/20/21	1AUpwind	2.4	<0.0093	No
10/20/21	18Downwind	2.0	<0.0112	No
10/21/21	1AUpwind	21.2	0.0022	No
10/21/21	18Downwind	21.1	0.0019	No
10/22/21	1AUpwind	6.4	<0.0035	No
10/22/21	18Downwind	6.1	<0.0037	No
10/25/21	1AUpwind	24.0	0.0015	No
10/25/21	18Downwind	23.8	0.0014	No
10/26/21	1AUpwind	24.0	<0.0009	No
10/26/21	18Downwind	24.0	<0.0009	No
10/27/21	1AUpwind	3.8	<0.0060	No
10/27/21	18Downwind	3.7	<0.0061	No
11/1/21	1AUpwind	24.1	<0.0009	No
11/1/21	18Downwind	23.8	<0.0009	No
11/2/21	1AUpwind	23.9	0.0013	No
11/2/21	18Downwind	23.9	<0.0009	No
11/3/21	1AUpwind	24.2	<0.0009	No
11/3/21	18Downwind	23.9	<0.0009	No
11/4/21	1AUpwind	24.0	<0.0009	No
11/4/21	18Downwind	23.9	<0.0009	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period	Asbestos	Asbestos Exceedance? (Yes/No)
Action Level		≤ 25	0.1	
Units		hours	(fibers/cm ³)	
11/5/21	1AUpwind	8.3	0.0032	No
11/5/21	18Downwind	8.3	<0.0027	No
11/8/21	1AUpwind	23.9	<0.0009	No
11/8/21	18Downwind	24.2	<0.0009	No
11/9/21	1AUpwind	24.0	<0.0009	No
11/9/21	18Downwind	23.7	<0.0009	No
11/10/21	1AUpwind	24.3	<0.0009	No
11/10/21	18Downwind	24.3	<0.0009	No
11/11/21	1AUpwind	24.0	<0.0009	No
11/11/21	18Downwind	24.0	<0.0009	No
11/12/21	1AUpwind	23.6	<0.0009	No
11/12/21	18Downwind	24.1	<0.0009	No
11/13/21	1AUpwind	7.8	<0.0030	No
11/13/21	18Downwind	7.6	<0.0030	No
11/15/21	1AUpwind	23.8	<0.0009	No
11/15/21	18Downwind	23.8	<0.0009	No
11/16/21	1AUpwind	23.9	<0.0009	No
11/16/21	18Downwind	24.1	0.0011	No
11/17/21	1AUpwind	24.6	0.0010	No
11/17/21	18Downwind	24.8	<0.0009	No
11/18/21	1AUpwind	23.8	<0.0009	No
11/18/21	18Downwind	23.3	<0.0010	No
11/19/21	1AUpwind	23.8	<0.0009	No
11/19/21	18Downwind	23.8	<0.0009	No
11/20/21	1AUpwind	7.6	<0.0030	No
11/20/21	18Downwind	7.7	<0.0029	No
11/22/21	1AUpwind	24.0	<0.0009	No
11/22/21	18Downwind	23.9	<0.0009	No
11/23/21	1AUpwind	9.8	<0.0023	No
11/23/21	18Downwind	9.8	<0.0023	No
11/29/21	1AUpwind	24.0	<0.0009	No
11/29/21	18Downwind	23.5	<0.0010	No
11/30/21	1AUpwind	23.9	<0.0009	No
11/30/21	18Downwind	23.9	<0.0009	No
12/1/21	1AUpwind	23.9	<0.0009	No
12/1/21	18Downwind	24.1	0.0010	No
12/2/21	1AUpwind	24.4	0.0009	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period	Asbestos	Asbestos Exceedance? (Yes/No)
Action Level		≤ 25	0.1	
Units		hours	(fibers/cm ³)	
12/2/21	18Downwind	24.2	<0.0009	No
12/3/21	1AUpwind	23.7	<0.0009	No
12/3/21	18Downwind	23.6	<0.0009	No
12/4/21	1AUpwind	7.8	<0.0030	No
12/4/21	18Downwind	7.8	<0.0030	No
12/6/21	1AUpwind	23.9	<0.0009	No
12/6/21	18Downwind	23.9	<0.0009	No
12/7/21	1AUpwind	24.0	<0.0009	No
12/7/21	18Downwind	24.0	<0.0009	No
12/8/21	1AUpwind	23.9	<0.0009	No
12/8/21	18Downwind	23.9	<0.0009	No
12/9/21	1AUpwind	24.5	<0.0009	No
12/9/21	18Downwind	24.5	<0.0009	No
12/10/21	1AUpwind	8.6	<0.0026	No
12/10/21	18Downwind	8.8	<0.0025	No
6/2/22	1AUpwind	24.2	<0.0009	No
6/2/22	18Downwind	24.0	<0.0009	No
6/3/22	1AUpwind	7.5	<0.0030	No
6/3/22	18Downwind	7.0	<0.0032	No
6/6/22	1AUpwind	24.1	<0.0009	No
6/6/22	18Downwind	23.9	<0.0009	No
6/7/22	1AUpwind	24.2	<0.0009	No
6/7/22	18Downwind	24.0	<0.0009	No
6/8/22	1AUpwind	23.7	<0.0009	No
6/8/22	18Downwind	24.0	<0.0009	No
6/9/22	1AUpwind	24.6	<0.0009	No
6/9/22	18Downwind	24.1	<0.0009	No
6/10/22	1AUpwind	7.4	<0.0030	No
6/10/22	18Downwind	7.0	<0.0032	No
6/13/22	1AUpwind	23.5	<0.0010	No
6/13/22	18Downwind	23.7	<0.0009	No
6/14/22	1AUpwind	24.0	<0.0009	No
6/14/22	18Downwind	24.1	<0.0009	No
6/15/22	1AUpwind	24.0	<0.0009	No
6/15/22	18Downwind	24.1	<0.0009	No
6/16/22	1AUpwind	24.0	<0.0009	No
6/16/22	18Downwind	23.8	<0.0009	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period	Asbestos	Asbestos Exceedance? (Yes/No)
Action Level		≤ 25	0.1	
Units		hours	(fibers/cm ³)	
6/17/22	1AUpwind	7.4	<0.0030	No
6/17/22	18Downwind	7.0	<0.0032	No
6/20/22	1AUpwind	23.8	<0.0009	No
6/20/22	18Downwind	24.0	<0.0009	No
6/21/22	1AUpwind	24.1	<0.0009	No
6/21/22	18Downwind	23.9	<0.0009	No
6/22/22	1AUpwind	24.6	<0.0009	No
6/22/22	18Downwind	24.2	<0.0009	No
6/23/22	1AUpwind	24.0	<0.0009	No
6/23/22	18Downwind	24.0	<0.0009	No
6/24/22	1AUpwind	6.0	<0.0037	No
6/24/22	18Downwind	6.0	<0.0037	No
6/27/22	1AUpwind	24.5	<0.0009	No
6/27/22	18Downwind	23.9	<0.0009	No
6/28/22	1AUpwind	24.0	<0.0009	No
6/28/22	18Downwind	24.1	0.0014	No
6/29/22	1AUpwind	24.0	<0.0009	No
6/29/22	18Downwind	23.9	<0.0009	No
6/30/22	1AUpwind	24.0	<0.0009	No
6/30/22	18Downwind	24.1	<0.0009	No
7/1/22	1AUpwind	6.0	<0.0037	No
7/1/22	18Downwind	6.0	<0.0037	No

Attachment 1, Table 4: Asbestos Sampling Results

Notes:

Note 1: Sample not collected due to inclement weather conditions (rain).

Note 2: Filter cartridge overloaded due to ash from forest fires.

Note 3: Sample not collected because the site was temporarily shut down and no workers were onsite.

Note 4: Sample was not collected due to a delay in air sampling set-up. No field activities occurred on this day.

Note 5: Filter cartridge was damaged and could not be analyzed.

Sample locations are shown on Figure 1.

< - less than

≤ - less than or equal to

fibers/cm³ - fibers per cubic centimeter

Attachment 1, Table 5: Radionuclides of Concern Air Sampling Results

Date	Sample Location	Sampling Period	Cesium-137		Plutonium-239/240		Radium-226		Strontium-90		Thorium-232		Uranium-235/236		Exceedance? (Yes/No)
Action Level		hours	4.00E-11		4.00E-15		1.80E-13		1.20E-12		1.20E-15		6.00E-13		
Units			$\mu\text{Ci}/\text{mL}$	$\mu\text{Ci}/\text{mL}$	$\mu\text{Ci}/\text{mL}$	$\mu\text{Ci}/\text{mL}$	$\mu\text{Ci}/\text{mL}$	$\mu\text{Ci}/\text{mL}$	$\mu\text{Ci}/\text{mL}$	$\mu\text{Ci}/\text{mL}$	$\mu\text{Ci}/\text{mL}$	$\mu\text{Ci}/\text{mL}$	$\mu\text{Ci}/\text{mL}$		
8/24/20 - 8/28/20	1Upwind	104	1.04E-14	U	4.08E-17	U	1.63E-16	U	1.22E-16	U	1.98E-16	JB	1.27E-16	U	No
8/24/20 - 8/28/20	17Downwind	104	-1.67E-14	U	8.38E-17	JB	1.87E-15	JB	-6.81E-16	U	3.19E-16	JB	8.04E-17	U	No
8/31/20 - 9/4/20	1Upwind	104	7.00E-15	U	0.00E+0	U	1.87E-15	JB	3.33E-15	JB	4.93E-16	JB	1.03E-16		No
8/31/20 - 9/4/20	17Downwind	104	-5.00E-15	U	1.01E-16	JB	1.39E-15	JB	1.06E-15	U	5.20E-16	JB	1.98E-16	J	No
9/08/20 - 9/11/20	1Upwind	80	-3.90E-14	U	1.24E-16	JB	1.17E-15	JB	2.00E-15	U	3.90E-16	JB, J	1.96E-16	JB	No
9/08/20 - 9/11/20	17ADownwind	79	-1.20E-14	U	0.00E+0	U	1.96E-15	JB	6.82E-16	U	2.86E-16	JB	-6.97E-17	U	No
9/14/20 - 9/18/20	1Upwind	103	-6.70E-13	U	1.01E-16	J	-2.42E-16	U	2.00E-15	JB	3.29E-16	JB	5.12E-17	U	No
9/14/20 - 9/18/20	17ADownwind	103	-5.48E-12	U	0.00E+0	UJ	9.40E-17	U	-2.00E-15	U	4.76E-16	JB	5.13E-17	U	No
9/21/20 - 9/25/20	1Upwind	99	-8.13E-15	U	-1.25E-16	UJ	3.65E-15	JB	4.00E-15	JB	1.51E-16	JB	1.59E-16	JB	No
9/21/20 - 9/25/20	17ADownwind	103	-3.48E-16	U	-4.11E-17	UJ	1.73E-15	JB	-2.00E-15	U	1.80E-16	JB	1.29E-16	U	No
9/28/20 - 10/2/20	1Upwind	104	1.00E-15	U	-3.96E-17	U	-5.63E-16	U	-7.64E-15	U	2.37E-16	JB	1.99E-16	JB	No
9/28/20 - 10/2/20	17ADownwind	104	-2.50E-14	U	1.98E-17	U	1.50E-15	U	2.23E-15		2.43E-16	JB	-2.65E-17	U	No
10/5/20 - 10/9/20	1Upwind	104	-1.39E-15	U	-1.44E-16	U	3.14E-16	U	1.84E-15		2.54E-16	JB	1.07E-16	U	No
10/5/20 - 10/9/20	17ADownwind	104	-6.25E-15	U	2.03E-17	U	1.36E-15	U	0.00E+00	U	1.61E-16	JB	2.63E-17	U	No
10/12/20 - 10/16/20	1Upwind	104	-8.68E-15	U	4.07E-17	U	-2.83E-16	U	1.05E-15	U	-6.07E-17	U	9.42E-17		No
10/12/20 - 10/16/20	17ADownwind	102	9.87E-15	U	8.38E-17		-3.80E-16	U	2.06E-15	JB	6.22E-17	JB	1.03E-16		No
10/19/20 - 10/24/20	1Upwind	128	-6.00E-15	U	-2.07E-16	U	-1.66E-16	U	-5.08E-16	U	-6.35E-16	U	4.29E-17	U	No
10/19/20 - 10/24/20	17ADownwind	128	7.00E-15	U	-1.31E-16	U	5.01E-16	U	-2.20E-16	U	1.32E-16		0.00E+0	U	No
10/26/20 - 10/31/20	1Upwind	121	1.59E-15	U	-3.46E-17	U	6.93E-16	U	1.26E-15		1.31E-16	JB	2.11E-17	U	No
10/26/20 - 10/31/20	17ADownwind	120	2.65E-14	U	-1.96E-16	U	4.70E-16	U	5.29E-17	U	1.36E-16	JB	-2.29E-17	U	No
10/31/20 - 11/7/20	1Upwind	174	2.78E-14	U	-7.06E-17	U	6.07E-16		1.01E-14	JB	8.80E-17	JB	8.82E-17	JB	No
10/31/20 - 11/7/20	18Downwind	174	1.78E-14	U	4.67E-17	U	5.06E-16	U	6.50E-15	JB	9.67E-17	JB	-4.39E-17	U	No
11/9/20 - 11/14/20	1Upwind	119	4.88E-15	U	-2.11E-16	UJ	5.17E-17	U	-2.14E-16	U	1.27E-16	JB	8.75E-17		No
11/9/20 - 11/14/20	18Downwind	120	1.29E-14	U	-6.77E-17	U	2.70E-16	U	1.03E-15	U	1.58E-16	JB	4.31E-17	U	No
11/16/20 - 11/21/20	1Upwind	127	1.49E-15	U	1.59E-17	U	6.94E-18	U	2.43E-16	U	1.12E-16	JB	0.00E+0	U	No
11/16/20 - 11/21/20	18Downwind	127	-2.08E-14	U	-3.35E-17	U	2.03E-16	U	-9.92E-16	U	1.27E-16	JB	1.93E-17	U	No
11/23/20 - 11/25/20	1Upwind	57	1.78E-14	U	0.00E+0	U	8.96E-16	U	-2.89E-15	U	4.63E-16	JB	4.59E-17	U	No
11/23/20 - 11/25/20	18Downwind	57	-1.39E-14	U	0.00E+0	U	1.38E-15		2.06E-15	U	1.44E-16	JB	4.89E-17	U	No
11/30/20 - 12/5/20	1Upwind	125	-5.18E-15	U	-1.64E-17	UJ	-5.00E-16	U	4.08E-16	U	2.00E-16		4.34E-17	U	No
11/30/20 - 12/5/20	18Downwind	127	6.08E-15	U	0.00E+0	UJ	-1.62E-16	U	7.92E-16	U	2.27E-16		2.11E-17	U	No
12/7/20 - 12/12/2020	1Upwind	127	6.48E-15	U	1.69E-17	U	3.45E-16	U	-6.38E-16	U	3.65E-16	JB	3.55E-17	U	No
12/7/20 - 12/12/2020	18Downwind	127	-3.16E-15	U	-3.43E-17	U	4.59E-16	U	8.37E-16	U	1.31E-16	JB	3.59E-17	U	No
12/14/20 - 12/18/20	1Upwind	105	1.08E-14	U	0.00E+0	U	-1.34E-16	U	-9.87E-16	U	7.79E-16	JB	4.73E-17	U	No
12/14/20 - 12/18/20	18Downwind	105	-5.16E-16	U	-2.14E-16	U	-7.81E-16	U	-1.55E-17	U	7.92E-16	JB	4.91E-17	U	No
12/21/20 - 12/22/20	1Upwind	27	0.00E+0	U	0.00E+0	U	8.76E-16	U	3.73E-16	U	1.97E-15	JB	-9.40E-17	U	Yes (Note 3)
12/21/20 - 12/22/20	18Downwind	27	-6.34E-15	U	0.00E+0	U	1.93E-15	JB	-3.46E-15	U	1.29E-15	JB	3.81E-16		Yes (Note 3)
12/28/20 - 12/31/20	1Upwind	Note 1	Note 1		Note 1		Note 1		Note 1		Note 1		Note 1		Note 1

Attachment 1, Table 5: Radionuclides of Concern Air Sampling Results

Date	Sample Location	Sampling Period	Cesium-137		Plutonium-239/240		Radium-226		Strontium-90		Thorium-232		Uranium-235/236		Exceedance? (Yes/No)
Action Level		hours	4.00E-11		4.00E-15		1.80E-13		1.20E-12		1.20E-15		6.00E-13		
Units			μCi/mL	μCi/mL	μCi/mL	μCi/mL	μCi/mL	μCi/mL	μCi/mL	μCi/mL	μCi/mL	μCi/mL	μCi/mL		
12/28/20 - 12/31/20	18Downwind	Note 1	Note 1		Note 1		Note 1		Note 1		Note 1		Note 1		Note 1
1/5/21 - 1/8/21	1Upwind	74	9.91E-15	U	5.83E-17	U	-1.63E-16	U	-1.38E-15	U	6.05E-16	JB	6.85E-17	U	No
1/5/21 - 1/8/21	18Downwind	74	-2.93E-14	U	-3.16E-16	U	1.31E-15	JB	-2.55E-15	U	1.05E-15	JB	7.09E-17	U	No
1/11/21 - 1/15/21	1Upwind	103	-1.43E-14	U	2.10E-17	U	7.74E-17	U	-3.69E-16	U	6.11E-16	JB	2.56E-17	U	No
1/11/21 - 1/15/21	18Downwind	103	-6.16E-15	U	2.05E-17	U	2.40E-16	U	-1.03E-15	U	3.73E-16	JB	1.05E-16		No
1/20/21 - 1/22/21	1Upwind	55	5.36E-16	U	-3.81E-17	U	1.46E-15		6.74E-16	U	1.12E-15	JB	7.79E-17	U	No
1/20/21 - 1/22/21	18Downwind	55	7.09E-15	U	0.00E+0	U	9.23E-16		1.21E-15	U	8.49E-16	JB	-2.07E-16	U	No
1/25/21 - 1/29/21	1Upwind	Note 1, 2	Note 1, 2		Note 1, 2		Note 1, 2		Note 1, 2		Note 1, 2		Note 1, 2		Note 1, 2
1/25/21 - 1/29/21	18Downwind	Note 1, 2	Note 1, 2		Note 1, 2		Note 1, 2		Note 1, 2		Note 1, 2		Note 1, 2		Note 1, 2
2/1/21 - 2/5/21	1Upwind	Note 1, 4	Note 1, 4		Note 1, 4		Note 1, 4		Note 1, 4		Note 1, 4		Note 1, 4		Note 1, 4
2/1/21 - 2/5/21	18Downwind	Note 1, 4	Note 1, 4		Note 1, 4		Note 1, 4		Note 1, 4		Note 1, 4		Note 1, 4		Note 1, 4
2/8/21 - 2/12/21	1Upwind	102	-1.07E-14	U	-3.90E-17	U	-4.36E-16	U	9.51E-16	U	2.27E-16	JB	-2.46E-17	UJ	No
2/8/21 - 2/12/21	18Downwind	102	-1.43E-16	U	-1.02E-16	U	6.14E-16		-1.08E-15	U	5.48E-16	JB	0.00E+0	U	No
2/15/21 - 2/19/21	1Upwind	101	7.99E-15	U	-1.89E-16	U	5.08E-16	JB	4.72E-15	JB	6.54E-16	JB	5.12E-17	U	No
2/15/21 - 2/19/21	18Downwind	100	9.37E-15	U	-3.83E-17	U	9.06E-16	JB	8.64E-16	U	5.40E-16	JB	1.06E-16		No
5/24/21 - 5/28/21	1Upwind	97	9.49E-15	U	-3.07E-16	U	2.24E-16	U	1.07E-14	JB	7.14E-17	U	0.00E+0	U	No
5/24/21 - 5/28/21	18Downwind	96	-7.63E-15	U	-3.95E-16	U	-2.53E-16	U	1.40E-14	JB	2.03E-16	JB	-1.19E-16	U	No
6/1/21 - 6/4/21	1Upwind	80	8.41E-15	U	-2.94E-16	U	-2.14E-16	U	4.23E-15	J	2.25E-16	JB	0.00E+0	U	No
6/1/21 - 6/4/21	18Downwind	80	-4.18E-14	U	-3.46E-16	U	1.56E-16	U	2.95E-15	J	1.87E-16	JB	0.00E+0	U	No
6/7/21 - 6/11/21	1Upwind	104	6.57E-15	U	-1.53E-16	U	-3.94E-16	U	-7.54E-16	UJ	1.87E-16	JB	2.56E-17	U	No
6/7/21 - 6/11/21	18Downwind	104	-9.42E-15	U	-6.50E-17	U	3.31E-16	U	2.66E-15	JB	2.23E-16	JB	-2.57E-17	U	No
6/14/21 - 6/18/21	1Upwind	103	3.84E-15	U	-1.26E-16	U	7.66E-16		2.44E-15	JB	1.09E-16	U	4.88E-17	U	No
6/14/21 - 6/18/21	18Downwind	103	-8.38E-15	U	-7.95E-17	U	1.86E-16	U	-1.44E-15	U	1.08E-16		5.08E-17	U	No
6/21/21 - 6/25/21	1Upwind	104	-6.30E-15	U	-2.74E-16	U	6.81E-16		-2.25E-16	U	1.51E-16	JB	2.57E-17	U	No
6/21/21 - 6/25/21	18Downwind	103	-8.89E-15	U	-2.02E-16	U	3.31E-16	U	-3.50E-17	U	2.82E-17	U	-7.90E-17	U	No
6/28/21 - 7/2/21	1Upwind	103	-3.74E-15	U	-6.20E-17	U	6.86E-16		-1.83E-15	U	-2.16E-17	U	-2.64E-17	U	No
6/28/21 - 7/2/21	18Downwind	103	6.29E-15	U	-1.27E-16	U	1.19E-15		2.19E-15	JB	1.86E-16	JB	1.85E-16		No
7/6/21 - 7/9/21	1AUpwind	79	-3.22E-14	U	-2.75E-17	U	1.67E-15	JB	1.17E-15	U	1.90E-16	JB	6.85E-17	U	No
7/6/21 - 7/9/21	18Downwind	79	3.32E-15	U	-1.79E-16	UJ	6.02E-16	U	8.70E-16	U	2.31E-16	JB	0.00E+0	U	No
7/12/21 - 7/16/21	1AUpwind	104	3.38E-15	U	-5.97E-17	U	6.02E-16	U	5.92E-16	U	1.38E-16	JB	9.87E-17		No
7/12/21 - 7/16/21	18Downwind	104	1.83E-14		-1.72E-17	U	1.34E-16	U	5.85E-16	U	0.00E+0	U	3.09E-17	U	No
7/19/21 - 7/23/21	1AUpwind	103	-1.13E-15	U	4.01E-18	U	9.19E-16	JB	8.04E-16	U	3.78E-16	JB	-1.73E-16	U	No
7/19/21 - 7/23/21	18Downwind	103	3.55E-15	U	-2.98E-17	U	9.05E-16	JB	7.39E-16	U	1.34E-16	JB	0.00E+0	U	No
7/26/21 - 7/30/21	1AUpwind	103	5.32E-15	U	-1.95E-17	U	2.37E-15	JB	1.28E-15	U	5.84E-17	U	1.03E-16	U	No
7/26/21 - 7/30/21	18Downwind	103	-2.11E-14	U	2.05E-17	U	3.26E-15	JB	-1.39E-15	U	7.96E-17	JB	0.00E+0	U	No
8/2/21-8/6/21	1AUpwind	104	-7.10E-15	U	3.93E-17	U	4.47E-16	U	1.78E-15		2.3E-16	JB	7.90E-17		No
8/2/21-8/6/21	18Downwind	104	7.91E-15	U	-2.00E-17	U	2.14E-15		-2.80E-16	U	2.03E-17	U	-2.68E-17	U	No

Attachment 1, Table 5: Radionuclides of Concern Air Sampling Results

Date	Sample Location	Sampling Period	Cesium-137	Plutonium-239/240	Radium-226	Strontium-90	Thorium-232	Uranium-235/236	Exceedance? (Yes/No)
Action Level		hours	4.00E-11	4.00E-15	1.80E-13	1.20E-12	1.20E-15	6.00E-13	
Units			µCi/mL	µCi/mL	µCi/mL	µCi/mL	µCi/mL	µCi/mL	
8/9/21-8/13/21	1AUpwind	104	-1.05E-14 U	2.07E-17 U	1.38E-15 U	2.77E-15	1.52E-16 JB	1.29E-16 JB	No
8/9/21-8/13/21	18Downwind	104	8.83E-15 U	0.00E+0 U	2.34E-15	-8.17E-16 U	0.00E+0 U	5.42E-17 U	No
8/16/21-8/20/21	1AUpwind	103	-1.09E-14 U	-3.87E-17 U	1.64E-15 JB	3.64E-15 JB	1.55E-16 JB	0.00E+0 U	No
8/16/21-8/20/21	18Downwind	104	-5.14E-15 U	-2.10E-17 U	7.05E-16 JB	1.55E-15 JB	1.57E-16 JB	4.92E-17 U	No
8/23/21-8/27/21	1AUpwind	103	4.36E-16 U	4.16E-17 U	-9.35E-16 U	2.98E-15	1.39E-16 JB	5.52E-17 U	No
8/23/21-8/27/21	18Downwind	104	2.57E-16 U	-1.83E-16 U	2.24E-15	-1.57E-15 U	1.24E-16 JB	-1.07E-16 U	No
8/30/21-9/3/21	1AUpwind	104	8.40E-15 U	-3.64E-16 U	9.65E-16 U	4.66E-16 U	7.83E-17 U	2.52E-17 U	No
8/30/21-9/3/21	18Downwind	104	-7.91E-15 U	4.17E-17 U	1.45E-15 JB	8.83E-16 U	3.02E-16 JB	-2.75E-17 U	No
9/7/21-9/10/2021	1AUpwind	80	-6.08E-15 U	2.75E-17 U	1.46E-14 JB	-1.16E-15 U	-2.79E-17 U	6.99E-17 U	No
9/7/21-9/10/2021	18Downwind	80	2.34E-15 U	2.56E-17 U	1.07E-14 JB	8.08E-16 U	1.62E-16 JB	1.32E-16 JB	No
9/13/21-9/17/2021	1AUpwind	104	4.28E-15 U	-4.18E-17 U	9.63E-16 JB	6.35E-15 JB	1.49E-16 JB	5.12E-17 U	No
9/13/21-9/17/2021	18Downwind	104	4.01E-15 U	4.34E-17 U	9.89E-16 JB	4.56E-15 JB	2.36E-16 JB	2.65E-17 U	No
9/20/21-9/24/21	1AUpwind	104	-3.60E-14 U	5.21E-16	-5.14E-17 U	7.79E-16 U	2.56E-16 JB	5.02E-17 U	No
9/20/21-9/24/21	18Downwind	104	5.16E-14 U	-2.06E-17 U	2.15E-16 U	2.86E-15 JB	2.77E-16 JB	7.74E-17	No
9/27/21-10/1/21	1AUpwind	103	6.54E-15 U	-2.00E-17 U	4.09E-16 U	1.32E-15 JB	1.02E-16 JB	0.00E+0 U	No
9/27/21-10/1/21	18Downwind	102	3.93E-16 U	2.14E-17 U	9.71E-16	1.01E-15 U	2.04E-16 JB	2.45E-17 U	No
10/4/21-10/8/21	1AUpwind	104	-9.50E-17 U	1.89E-17 U	9.58E-16	2.10E-15 JB	1.77E-16 JB	4.88E-17 U	No
10/4/21-10/8/21	18Downwind	104	7.45E-15 U	0.00E+0 U	2.03E-16 U	1.37E-15 U	1.98E-17 U	1.04E-16	No
10/11/21-10/15/21	1AUpwind	91	8.83E-16 U	-7.03E-17 U	9.47E-16 JB	2.11E-15 JB	1.74E-16 JB	-5.82E-17 U	No
10/11/21-10/15/21	18Downwind	104	-3.15E-15 U	-2.01E-17 U	3.95E-16 U	1.25E-15 U	1.50E-16 JB	7.69E-17 JB	No
10/18/21-10/22/21	1AUpwind	110	-8.11E-15 U	3.88E-17 U	1.01E-15 JB	NR	1.56E-16 JB	7.51E-17 U	No
10/18/21-10/22/21	18Downwind	110	-9.60E-15 U	1.17E-16	-7.99E-17 U	-2.39E-16 U	2.17E-16 JB	0.00E+0 U	No
10/25/21-10/27/21	1AUpwind	50	2.32E-14 U	-1.30E-16 U	-1.11E-15 U	7.48E-15	4.54E-16 JB	-5.39E-17 U	No
10/25/21-10/27/21	18Downwind	51	7.59E-15 U	8.55E-17 U	-1.48E-15 U	2.86E-15 U	1.69E-16 JB	5.44E-17 U	No
11/1/21-11/5/21	1AUpwind	102	3.84E-15 U	-4.23E-17 U	2.63E-16 U	6.15E-15 JB	8.58E-17 U	1.08E-16	No
11/1/21-11/5/21	18Downwind	102	4.69E-15 U	1.99E-17 U	-1.72E-16 U	1.21E-15 U	1.62E-16 JB	2.56E-17 U	No
11/8/21-11/13/21	1AUpwind	127	4.66E-15 U	3.39E-17 U	5.05E-16 U	-3.61E-15 U	1.10E-16	3.95E-17 U	No
11/8/21-11/13/21	18Downwind	128	6.81E-15 U	-1.69E-17 U	2.64E-16 U	3.84E-15 JB	1.61E-16	6.44E-17 U	No
11/15/21-11/20/21	1AUpwind	128	1.30E-15 U	7.10E-17 U	5.78E-16	2.47E-16 U	9.72E-17 JB	1.98E-17 U	No
11/15/21-11/20/21	18Downwind	127	9.03E-15 U	-1.70E-17 U	4.27E-16 U	5.39E-15 B	1.68E-17 U	0.00E+0 U	No
11/22/21-11/23/21	1AUpwind	34	2.14E-15 U	1.86E-16 U	7.79E-16 U	5.54E-15 U	2.17E-16 U	7.48E-17 U	No
11/22/21-11/23/21	18Downwind	34	0.00E+0 U	6.25E-17 U	1.87E-15 U	1.74E-14	-1.82E-16 U	1.55E-16 U	No
11/29/21-12/4/21	1AUpwind	128	3.49E-15 U	3.24E-17 U	4.52E-16 U	2.68E-15 JB	1.39E-16 JB	-4.03E-17 U	No
11/29/21-12/4/21	18Downwind	127	-2.69E-15 U	1.13E-16	-2.64E-16 U	1.61E-15 U	9.50E-17 JB	-1.93E-17 U	No
12/6/21-12/10/21	1AUpwind	105	-1.11E-14 U	5.45E-17 JB	1.38E-16 U	7.48E-15	1.86E-16 JB	-2.32E-17 U	No
06/06/22-06/10/22	18Downwind	102	-1.11E-14 U	1.91E-17	3.59E-14	2.42E-15 U	2.24E-16 JB	5.88E-18 U	No
06/06/22-06/10/22	1AUpwind	101	-5.20E-15 U	2.17E-17 U	3.19E-14	1.41E-15 U	1.31E-16 JB	8.32E-17	No

Attachment 1, Table 5: Radionuclides of Concern Air Sampling Results

Date	Sample Location	Sampling Period	Cesium-137		Plutonium-239/240		Radium-226		Strontium-90		Thorium-232		Uranium-235/236		Exceedance? (Yes/No)
Action Level		hours	4.00E-11		4.00E-15		1.80E-13		1.20E-12		1.20E-15		6.00E-13		
Units			$\mu\text{Ci/mL}$	$\mu\text{Ci/mL}$	$\mu\text{Ci/mL}$	$\mu\text{Ci/mL}$	$\mu\text{Ci/mL}$	$\mu\text{Ci/mL}$	$\mu\text{Ci/mL}$	$\mu\text{Ci/mL}$	$\mu\text{Ci/mL}$	$\mu\text{Ci/mL}$	$\mu\text{Ci/mL}$		
06/13/22-06/17/22	18Downwind	103	0.00E+0	U	0.00E+0	U	2.92E-16	U	-1.06E-15	U	2.39E-16	JB	5.30E-17	U	No
06/13/22-06/17/22	1AUpwind	102	8.98E-15	U	2.08E-17	U	2.10E-15		2.81E-15		2.14E-16	JB	5.22E-17	U	No
06/20/22-06/24/22	18Downwind	101	-7.91E-15	U	0.00E+0	UJ	1.02E-16	UJ	1.80E-15	U	7.92E-17	JB	5.15E-17	U	No
06/20/22-06/24/22	1AUpwind	102	3.08E-15	U	1.47E-16	J	-2.11E-16	UJ	2.23E-16	U	1.87E-16	JB	2.57E-17	U	No
06/27/22-07/01/22	18Downwind	101	5.12E-15	U	4.32E-17	U	1.42E-16	U	1.91E-15	U	1.02E-16	JB	1.08E-16		No
06/27/22-07/01/22	1AUpwind	102	8.90E-15	U	2.18E-17	U	2.56E-16	U	-6.90E-16	U	2.35E-16	JB	2.64E-17	U	No

Attachment 1, Table 5: Radionuclides of Concern Air Sampling Results

Notes:

Note 1: Sample not collected because the site was temporarily shut down and no workers were on site.

Note 2: Sample not collected or not analyzed due to inclement weather conditions (rain).

Note 3: Sample exceeded the thorium-232 action limit; field blank sample also exceeded the thorium-232 action limit. Results may be due to naturally occurring radioactive material (NORM) contained in the glass fiber filters.

Note 4: Sample not collected because the site was temporarily shut down and workers were performing storm damage repairs only.

Sampling period for week 9/08/20 - 9/11/20 is less than 104 hours due to the Labor Day holiday.

Sampling period for the upwind air sampling station week 9/21/20 - 9/25/20 is less than 104 hours due to a generator malfunction.

Sampling period for the downwind air sampling station week 10/12/20 - 10/16/20 is less than 104 hours due to relocating the station outside the radiologically controlled area.

Sampling period for week 11/23/20 - 11/25/20 is less than 104 hours due to company holidays (Thanksgiving and the day after Thanksgiving).

Sampling period for week 12/21/20 - 12/22/20 is less than 104 hours due to weather conditions (rain)

Sampling period for week 1/5/21 - 1/8/21 is less than 104 hours due to weather conditions (rain)

Sampling period for week 1/20/21 - 1/22/21 is less than 104 hours due to weather conditions (wind and rain)

Sampling period for week 2/8/21 - 2/12/21 is less than 104 hours due to weather conditions (rain)

Sampling period for week 2/15/21 - 2/19/21 is less than 104 hours due to weather conditions (rain)

Sampling period for week 5/24/21 - 5/28/21 is less than 104 hours due to generator set-up.

Sampling period for week 6/1/21 - 6/4/21 is less than 104 hours due to company holiday (Memorial Day).

Sampling period for week 7/6/21 - 7/9/21 is less than 104 hours due to company holiday (Fourth of July, observed).

Sampling period for week 9/7/21 - 9/10/21 is less than 104 hours due to the Labor Day holiday.

Sampling period for week 9/27/21-10/1/21 is less than 104 hours due to generator servicing.

Sampling period for the upwind sample in week 10/11/21-10/15/21 is less than 104 hours due to the generator shutting down overnight for approximately 13 hours.

Sampling period for week 10/25/21-10/27/21 is less than 104 hours due to no site activities.

Sampling period for week 11/22/21-11/23/21 is less than 104 hours due to company holiday (Thanksgiving and the day after Thanksgiving).

Sample locations are shown on Figure 1.

μCi/mL - microcurie per milliliter

J - the concentration is an approximate value

JB - indicates the detected concentrations is estimated due to blank/background detections

U - not detected at specified reporting limit

UJ - not detected at specified reporting limit; the concentration is an approximate value

NR - Results not reported due to sample loss during analytical preparation

ATTACHMENT 2

AIR MONITORING RESULTS SUBTRACTION CRITERIA

Parcel G Air Monitoring Results Subtraction Criteria

Predominant Wind Direction		Air Monitoring Results Analysis^{a, b}
N	Wind blows from N to S	Deduct upwind station results from downwind station results
NNE	Wind blows from NNE to SSW	No deduction but may compare site results, location of site activities, and off-site activities potentially generating particulates to determine site-related impacts
NE	Wind blows from NE to SW	No deduction but may compare site results, location of site activities, and off-site activities potentially generating particulates to determine site-related impacts
ENE	Wind blows from ENE to WSW	No deduction but may compare site results, location of site activities, and off-site activities potentially generating particulates to determine site-related impacts
E	Wind blows from E to W	No deduction but may compare site results, location of site activities, and off-site activities potentially generating particulates to determine site-related impacts
ESE	Wind blows from ESE to WNW	Deduct downwind station results from upwind station results (i.e., switch downwind/upwind when predominant wind blowing in this direction)
SE	Wind blows from SE to NW	Deduct downwind station results from upwind station results (i.e., switch downwind/upwind when predominant wind blowing in this direction)
SSE	Wind blows from SSE to NNW	Deduct downwind station results from upwind station results (i.e., switch downwind/upwind when predominant wind blowing in this direction)
S	Wind blows from S to N	Deduct downwind station results from upwind station results (i.e., switch downwind/upwind when predominant wind blowing in this direction)
SSW	Wind blows from SSW to NNE	No deduction but may compare site results, location of site activities, and off-site activities potentially generating particulates to determine site-related impacts
SW	Wind blows from SW to NE	No deduction but may compare site results, location of site activities, and off-site activities potentially generating particulates to determine site-related impacts

Predominant Wind Direction		Air Monitoring Results Analysis ^{a, b}
WSW	Wind blows from WSW to ENE	No deduction but may compare site results, location of site activities, and off-site activities potentially generating particulates to determine site-related impacts
W	Wind blows from W to E	No deduction but may compare site results, location of site activities, and off-site activities potentially generating particulates to determine site-related impacts
WNW	Wind blows from WNW to ESE	Deduct upwind station results from downwind station results
NW	Wind blows from NW to SE	Deduct upwind station results from downwind station results
NNW	Wind blows from NNW to SSE	Deduct upwind station results from downwind station results

Notes:

^a Air monitoring includes filter-based air sampling and real-time dust monitoring.

^b Air monitoring results will be subtracted based on predominant wind direction when wind speeds are greater than 5 miles per hour.