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

Interim

Air Sampling Summary Report No. 12

Data Date Range: November 20, 2019 through
January 01, 2021
Parcel E Remedial Action—Phase 1

Hunters Point Naval Shipyard, CA

February 2021

Approved for public release: distribution unlimited.

DCN: APTM-2005-0024-0082

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

Prepared by:
Aptim Federal Services, LLC
4005 Port Chicago Highway, Suite 200
Concord, CA 94520
Contract Number: N62473-12-D-2005; Task Order: 0024

Table of Contents

List of Attachments

List of Figures

List of Tables (in text)

Acronyms and Abbreviations

APTIM ..... Aptim Federal Services, LLC

DCP ..... dust control plan

EPA ..... U.S. Environmental Protection Agency

PM10 ..... particulate matter larger than 10 microns in size

TSP ..... total suspended particulates

Work Plan ..... *Final Remedial Action Work Plan, Parcel E Remedial Action—Phase 1, Hunters Point Naval Shipyard, San Francisco, California*

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1.0 Introduction

Aptim Federal Services, LLC (APTIM) is providing environmental remediation services to the U.S. Department of the Navy under the Environmental Multiple Award Contract, Contract No. N62473-12-D-2005, Task Order 0024. APTIM is performing air sampling at Hunters Point Naval Shipyard in accordance with the dust control plan (DCP) included in Appendix C of the *Final Remedial Action Work Plan, Parcel E Remedial Action—Phase 1, Hunters Point Naval Shipyard, San Francisco, California* (Work Plan; APTIM, 2019). The DCP describes procedures that minimize dust during work activities and requires air sampling to ensure these procedures are effective. The DCP helps prevent exposure of residents and construction crews to potential airborne chemicals of concern, and dust from the work area.

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 also presents the air sampling analytical results from November 20, 2019 through January 01, 2021, and compares the results with the established action levels included in the Work Plan (APTIM, 2019).

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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 Hunters Point Naval Shipyard is from the west. Figure 1 shows locations of air sampling stations and wind direction. For the fieldwork conducted during this period, APTIM uses upwind and downwind sampling locations marked as “Air Sampling Station #1 B606 Upwind” near Crisp Road and “Air Sampling Station #2 12A Downwind” in Parcel D-1 near the Finger Piers (Figure 1). Air sampling is being performed to help ensure effective dust control. The locations of the air sampling stations were determined based on the prevailing wind direction and can be modified as needed. A windsock installed onsite is used to show wind direction and weather forecasts are checked daily at www.noaa.gov. Sampling stations remain stationary while sampling is being conducted. Each sampling station includes three separate air sampling systems for the following:

- Total suspended particulates (TSP) and for arsenic, lead, and manganese
- Particulate matter larger than 10 microns in size (PM10)
- Asbestos

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3.0 Analytical Methods

TSP, Arsenic, Lead, and Manganese: TSP samples are 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 is collected on a filter over an approximately 8-hour workday period; the filter is then weighed to determine the amount of TSP collected. Once the amount of TSP has been determined, the sample is analyzed for arsenic, 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, 1999a). The equipment specifications and sampling procedures used, including the sampling apparatus, filters, equipment accuracy, equipment calibration, and quality assurance checks, all conform to those specified in the analytical method.

PM10: Air samples are 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 is collected on a filter over an approximately 8-hour workday period; the filter is then weighed to evaluate the concentrations of PM10 in ambient air.

Asbestos: Air samples are 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.

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4.0 Analysis of Air Sampling Data

Analytical results from air sampling samples are compared with the action levels listed in Table 4-1 and in accordance with the Work Plan (APTIM, 2019).

Table 4-1: Air Sampling Action Levels

Test Parameters	Action Level[b]	Basis
PM10 (by air sampling laboratory analysis)	5,000 µg/m^3 (basewide)	Cal/OSHA PEL[a]
TSP	0.5 mg/m^3	Basewide HPNS Level selected to minimize overall permissible dust release from sites
Arsenic	10 µg/m^3	Cal/OSHA PEL
Lead	50 µg/m^3	Cal/OSHA PEL
Manganese	200 µg/m^3	Cal/OSHA PEL
Asbestos	0.1 fiber/cm^3	Cal/OSHA PEL

Notes:
[a] Cal/OSHA PEL for particulates not otherwise regulated (respiratory) used for PM10.
[b] Basewide action levels are from the *Final Basewide Dust Control Plan, Revision 1, Hunters Point Shipyard, San Francisco, California* (TetraTech EC, Inc., 2010).

µg/m^3	micrograms per cubic meter
Cal/OSHA	California Occupational Safety and Health Administration
fiber/cm^3	fibers per cubic centimeter
HPNS	Hunters Point Naval Shipyard
mg/m^3	milligrams per cubic meter
PEL	permissible exposure limit
PM10	particulate matter smaller than 10 microns in diameter
TSP	total suspended particulates

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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, identified in Section 2.0. Attachment 2 includes analytical laboratory results. Table 5-1 lists each interim air sampling report, the dates covered in each report, and if there were anomalies in the sample collection/sample results. If there is an anomaly identified, further clarification is provided.

Table 5-1: Air Sampling Report Summary

Interim Report Number	New Data Date Range	Anomaly Noted (Yes/No)
01	11/20/2019–11/30/2019	Yes
02	12/02/2019–12/31/2019	Yes
03	01/02/2020–01/31/2020	Yes
04	02/03/2020–02/28/2020	Yes
05	03/02/2020–05/22/2020	Yes
06	05/25/2020–06/27/2020	Yes
07	06/27/2020–07/31/2020	Yes
08	08/03/2020–08/28/2020	No
09	08/31/2020–09/25/2020	Yes
10	09/28/2020–10/31/2020	No
11	11/02/2020–11/25/2020	Yes
12	11/30/2020–01/01/2021	Yes

5.1 Report 01

Air sampling samples were not collected on November 27, 2019, because rain and/or wet field conditions prohibited earth-moving activities. Due to the Thanksgiving holiday, samples were not collected November 28 and 29, 2019. Air sampling results collected during this sampling period were below the action levels identified in Table 4-1.

5.2 Report 02

Air samples were not collected on December 2 to 6 and December 11 to 20, 2019, as no earth-moving activities were conducted. Due to the Christmas holiday, samples were not collected December 25, 2019. Air sampling results collected during this sampling period were below the action levels identified in Table 4-1.

5.3 Report 03

Air samples were not collected on January 1 to 2 and January 8 to 31, 2020, as no earth-moving activities were conducted. Air sampling results collected during this sampling period were below the action levels identified in Table 4-1.

5.4 Report 04

Air samples were not collected on February 3 to 10 and February 20 to 28, 2020, as no earth-moving activities were conducted. Air sampling results collected during this sampling period were below the action levels identified in Table 4-1.

5.5 Report 05

Air samples were not collected from March 2 through April 28, 2020, as no earth-moving activities were conducted. Air sampling results collected during this sampling period were below the action levels identified in Table 4-1.

5.6 Report 06

Air samples were not collected on May 25, 2020, as no earth-moving activities were conducted. Air sampling results collected during this sampling period were below the action levels identified in Table 4-1.

5.7 Report 07

Air samples were not collected on July 03, 2020, as no earth-moving activities were conducted. Air sampling results collected during this sampling period were below the action levels identified in Table 4-1.

5.8 Report 08

Air sampling results collected during this sampling period were below the action levels identified in Table 4-1.

5.9 Report 09

Air samples were not collected on September 07, 2020, as no earth-moving activities were conducted. During the month of September, there were several local fires in the

area that may have increased concentration results. Air sampling results collected during this sampling period were below the action levels identified in Table 4-1.

5.10 Report 10

Air sampling results collected during this sampling period were below the action levels identified in Table 4-1.

5.11 Report 11

Due to the Thanksgiving holiday, samples were not collected November 26 and 27, 2020. Air sampling results collected during this sampling period were below the action levels identified in Table 4-1.

5.12 Report 12

Due to Christmas and New Year's holidays, samples were not collected on December 24 and 25, and on January 1, 2021. Also, no air samples were collected on December 17,23, and 28 through 31 as no earth-moving activities were conducted. Air sampling results collected during this sampling period were below the action levels identified in Table 4-1.

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6.0 References

Aptim Federal Services, LLC, 2019, *Final Remedial Action Work Plan, Parcel E Remedial Action—Phase 1, Hunters Point Naval Shipyard, San Francisco, California*, September.

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

Tetra Tech EC, Inc., 2010, *Final Basewide Dust Control Plan, Revision 1, Hunters Point Naval Shipyard, San Francisco, California*, November 29.

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

EPA, 1999b, *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition. Compendium Method TO-4A, Determination of Pesticides and Polychlorinated Biphenyls in Ambient Air Using High Volume Polyurethane Foam (PUF) Sampling Followed by Gas Chromatographic/Multi-Detector Detection (GC/MD)*. EPA/625/R-96-010b, Office of Research and Development, January. Available Online at: <http://www.epa.gov/ttnamti1/files/ambient/airtox/to-4ar2r.pdf>.

EPA, 1999c, *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition. Compendium Method TO-13A, Determination of Polycyclic Aromatic Hydrocarbons in Ambient Air Using Gas Chromatography/Mass Spectrometry (GC/MS),* EPA/625/R-96/010b, January. Available Online at: <http://www.epa.gov/ttnamti1/files/ambient/airtox/to-13arr.pdf>.

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FIGURE

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B606 Upwind Dust Monitor #1 - Upwind (See Note 4)

Air Sampling Station #1 - B606Upwind (See Note 4)

Main Parcel E Access Point with Stabilized Construction Entrance (See Note 3)

IR-04 CVOC Plume

Parcel E-2

Prevailing Wind Direction

Access Point to Parcel E-2 (by others)

RCA Control Point (See Note 6)

IR-12A CVOC Plume

IR-12B Benzene Plume

Parcel G

Radiological S3 Screening Area

Mechanical Soil Processing Area

Building 406 (IR-36) CVOC Plume

Air Monitoring Station #2 - Upwind (See Note 4)

Temporary water line to IR-02 Slurry Wall Mix Plant

PARCEL E

FH

B606 Downwind Dust Monitor #1 Downwind (See Note 4)

Air Sampling Station #1 - B606 Downwind (See Note 4)

Potential MPPEH Screening Area

IR-02 NORTHWEST AND CENTRAL TCRA AREA

IR-02 Northwest Nearshore Slurry Wall

Parcel D-1

Dual-access Gate into IR-02 and IR-03 Work Areas (by others)

Turbidity Curtain (See Notes 2 and 3)

Radiological S3 Screening Area

Armored Shoreline Revetment and Concrete Seawall

Hybrid Shoreline Stabilization

IR-02 Slurry Wall Mix Plant Area

Air Sampling Station #2 - 12A Downwind (See Note 4)

IR-03 NAPL treatment and this section of shoreline revetment and hybrid shoreline protection to be performed by others under Phase 2 RA

Hybrid Shoreline Stabilization

SAN FRANCISCO BAY

Turbidity Curtain (See Notes 2 and 3)

Potential MPPEH Screening Area

METAL DEBRIS REEF TCRA AREA

Armored Shoreline Revetment and Concrete Seawall

N

0 400 800 Feet

Notes:

1. Install silt fence and/or straw wattles and sand bags along shoreline during excavation and grading activites within 50 feet of shoreline.

2. Locations of turbidity curtain and bay water quality monitoring will change as project work progresses.

3. Locations of site support features and engineering controls are subject to change based on site conditions as work progresses.

4. Air monitoring will be performed at a minimum of two stations: one upwind and one downwind. Air monitoring locations may change as work progresses.

5. Install filter fabric at all storm drain inlets within 50 feet of planned excavation area and/or directly down slope of excavation area.

6. RCA Control Point Location may change as work progresses.

BMP = Best Management Practices
FH = Fire Hydrant
HFD = Hazardous Fragmentation Distance
MPPEH = Material Potentially Presenting an Explosive Hazard
RA = Remedial Action
RCA = Radiological Control Area
S3 = Soil Sorting System
TCRA = Time Critical Removal Action

References:

1. Construction Engineering Services (CES), LLC, 2018
Design Basis Report, Parcel E, Hunters Point Naval Shipyard, San Francisco, California

2.TetraTech, 2010.
Final Material Potentially Presenting an Explosive Hazard Processing and Removal Completion Report, June

- Fire Hydrant
- Air Monitoring Station
- Building 606 Real-time Dust Monitor
- Temporary Water Line
- Existing Fence for Perimeter Control
- Planned Fence for Radiological Control
- Existing Fence for Radiological Control
- Approximate Location of Turbidity Curtain (See Note 2)
- Fuel Line to be Closed in Place or Removed (Phase 1 RA)
- Steam Line to be Closed in Place or Removed (Phase 1 RA)
- Planned Upland Excavation Area (Phase 1 RA)
- Planned Shoreline Excavation Area (Phase 3 RA)
- Nearshore Slurry Wall (Phase 3 RA)
- Planned Armored Shoreline Revetment (Phase 3 RA)
- Planned Hybrid Shoreline Stabilization (Phase 3 RA)
- Planned Armored Shoreline Revetment (Phase 2 RA)
- Planned Hybrid Shoreline Stabilization (Phase 2 RA)
- Radiologically Impacted Area
- Radiological S3 Screening Area
- Potential MPPEH Screening Area
- Mechanical Soil Processing Area
- IR-02 Slurry Wall Mix Plant Area
- Existing Radiological Screening Pad to be used for Soil and Debris Stockpile Areas (Phase 1 & 3)
- Existing Radiological Screening Pads (C1-C3) to be used during Phase 3 RA
- Debris and Soil Stockpile Areas to be Constructed (Phases 1 and 3 RA)
- Potential Additional Excavation Area to Remove Methane Generating Debris (if present - Phase 1 RA)
- Planned Soil Vapor Extraction Area within Building 406 (Phase 1 RA)
- IR-03 Mobile NAPL Treatment Zone (by others - Phase 2 RA)
- IR-03 Shoreline Excavation Area (by others - Phase 2 RA)
- Groundwater Plume (Phase 1 RA)
- Previous Parcel E TCRA Areas (2005-2007) where MPPEH was encountered (TetraTech, 2010)
- Existing Building
- Parcel E Boundary
- Other HPNS Parcel Boundaries
- Non-Navy Property
- Primary Parcel E Access Roads and Vehicle Haul Routes

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

FIGURE 1
CONSTRUCTION SITE LAYOUT AND AIR MONITORING LOCATION MAP

REMEDIAL ACTION PHASES 1 AND 3 IN PARCEL E
HUNTERS POINT NAVAL SHIPYARD, SAN FRANCISCO, CA

G:\HUNTERS_PT\GIS_Documents\Project_Maps\E_CTO24\HP_E_117_ConstructionSiteLayout.mxd 2/10/2020

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ATTACHMENT 1
AIR SAMPLING RESULTS

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

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)
20-Nov-19	30.24	8.7
21-Nov-19	30.24	11.2
22-Nov-19	30.30	15.1
25-Nov-19	30.22	11.2
26-Nov-19	30.20	12.3
27-Nov-19	30.12	13.9
28-Nov-19	30.02	12.7
29-Nov-19	30.12	17.6
2-Dec-19	30.18	12.7
3-Dec-19	30.19	13.1
4-Dec-19	30.03	12.2
5-Dec-19	30.14	12.7
6-Dec-19	30.08	14.3
9-Dec-19	30.27	11.6
10-Dec-19	30.32	12.2
11-Dec-19	30.29	12.8
12-Dec-19	30.36	14.9
13-Dec-19	30.33	12.9
16-Dec-19	30.42	10.4
17-Dec-19	30.30	10.6
18-Dec-19	30.17	11.5
19-Dec-19	30.30	12.5
20-Dec-19	30.30	11.2
23-Dec-19	29.99	9.6
24-Dec-19	30.00	9.8
25-Dec-19	29.92	10.0
26-Dec-19	30.07	10.6
27-Dec-19	30.16	10.1
30-Dec-19	30.23	11.1
31-Dec-19	30.23	11.4
1-Jan-20	30.24	11.7
2-Jan-20	30.23	12.1
3-Jan-20	30.32	11.1
6-Jan-20	30.57	10.5
7-Jan-20	30.37	10.3
8-Jan-20	30.21	11.2
9-Jan-20	30.28	10.8
10-Jan-20	30.40	9.7
13-Jan-20	30.29	10.6

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

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)
14-Jan-20	30.33	10.4
15-Jan-20	30.23	9.0
16-Jan-20	30.17	9.1
17-Jan-20	30.39	9.1
20-Jan-20	30.12	10.3
21-Jan-20	30.23	11.9
22-Jan-20	30.33	11.8
23-Jan-20	30.31	12.0
24-Jan-20	30.25	12.7
27-Jan-20	30.48	11.9
28-Jan-20	30.42	12.1
29-Jan-20	30.36	11.8
30-Jan-20	30.32	12.9
31-Jan-20	30.39	13.3
3-Feb-20	30.25	9.2
4-Feb-20	30.37	10.3
5-Feb-20	30.35	10.3
6-Feb-20	30.26	12.2
7-Feb-20	30.23	11.4
10-Feb-20	30.11	15.4
11-Feb-20	30.14	17.0
12-Feb-20	30.12	13.1
13-Feb-20	30.18	10.3
14-Feb-20	30.21	11.4
17-Feb-20	30.20	15.7
18-Feb-20	30.12	13.5
19-Feb-20	30.20	11.7
20-Feb-20	30.21	13.6
21-Feb-20	30.16	15.2
24-Feb-20	30.46	12.7
25-Feb-20	30.35	16.2
26-Feb-20	30.40	12.5
27-Feb-20	30.31	16.6
28-Feb-20	30.20	13.8
2-Mar-20	30.00	15.8
3-Mar-20	30.00	15.4
4-Mar-20	30.10	14.9
5-Mar-20	30.10	13.1
6-Mar-20	30.00	12.4

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

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)
9-Mar-20	30.10	13.4
10-Mar-20	30.00	15.7
11-Mar-20	30.00	15.0
12-Mar-20	29.90	12.9
13-Mar-20	29.80	12.7
16-Mar-20	29.90	9.3
17-Mar-20	29.90	9.4
18-Mar-20	29.90	10.8
19-Mar-20	30.00	11.8
20-Mar-20	30.20	12.2
23-Mar-20	30.10	11.7
24-Mar-20	30.10	11.2
25-Mar-20	30.10	10.3
26-Mar-20	30.10	10.4
27-Mar-20	30.10	11.7
30-Mar-20	30.30	13.1
31-Mar-20	30.20	13.3
1-Apr-20	30.00	12.3
2-Apr-20	30.10	11.6
3-Apr-20	30.00	11.5
6-Apr-20	29.90	8.7
7-Apr-20	30.10	10.2
8-Apr-20	29.90	12.8
9-Apr-20	30.00	13.8
10-Apr-20	30.00	13.9
13-Apr-20	30.10	13.4
14-Apr-20	30.20	16.0
15-Apr-20	30.00	14.9
16-Apr-20	29.90	13.0
17-Apr-20	29.90	13.6
20-Apr-20	30.10	13.8
21-Apr-20	30.20	13.4
22-Apr-20	30.30	14.9
23-Apr-20	30.20	15.3
24-Apr-20	30.10	16.4
27-Apr-20	30.10	15.4
28-Apr-20	30.10	15.3
29-Apr-20	30.00	14.2
30-Apr-20	30.10	13.8

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

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)
1-May-20	30.10	14.8
4-May-20	30.10	14.4
5-May-20	30.10	14.5
6-May-20	30.10	15.9
7-May-20	29.90	17.1
8-May-20	29.90	15.7
11-May-20	29.90	15.3
12-May-20	30.00	14.9
13-May-20	30.00	15.3
14-May-20	30.10	16.2
15-May-20	30.10	15.2
18-May-20	29.90	14.9
19-May-20	30.00	15.3
20-May-20	30.10	14.9
21-May-20	30.00	15.3
22-May-20	29.90	14.6
25-May-20	29.90	19.6
26-May-20	29.90	21.9
27-May-20	29.90	18.4
28-May-20	29.90	14.9
29-May-20	29.90	16.2
1-Jun-20	30.00	16.5
2-Jun-20	30.00	20.4
3-Jun-20	29.90	20.4
4-Jun-20	29.80	18.3
5-Jun-20	29.80	14.7
8-Jun-20	30.20	16.7
9-Jun-20	30.10	17.9
10-Jun-20	30.00	17.1
11-Jun-20	30.00	17.1
12-Jun-20	30.10	15.6
13-Jun-20	30.10	16.2
15-Jun-20	30.00	16.4
16-Jun-20	30.00	15.7
17-Jun-20	30.00	13.8
18-Jun-20	29.69	25.22
19-Jun-20	29.71	19.00
22-Jun-20	29.74	19.78
23-Jun-20	29.71	19.39
24-Jun-20	29.65	19.89

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

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)
25-Jun-20	29.63	19.39
26-Jun-20	29.68	19.11
27-Jun-20	29.65	17.00
28-Jun-20	29.54	15.94
29-Jun-20	29.68	16.30
30-Jun-20	29.71	16.60
1-Jul-20	29.62	15.39
2-Jul-20	29.82	19.39
3-Jul-20	29.82	15.17
4-Jul-20	29.82	17.22
7-Jul-20	29.75	16.33
8-Jul-20	29.68	15.83
9-Jul-20	29.71	16.61
10-Jul-20	29.80	14.94
13-Jul-20	29.67	14.56
14-Jul-20	29.71	16.00
15-Jul-20	29.70	16.17
16-Jul-20	29.70	15.83
17-Jul-20	29.75	16.56
20-Jul-20	29.80	15.22
21-Jul-20	29.70	15.72
22-Jul-20	29.64	16.78
23-Jul-20	29.70	15.50
24-Jul-20	29.72	14.94
27-Jul-20	29.72	15.33
28-Jul-20	29.72	15.11
29-Jul-20	29.73	15.28
30-Jul-20	29.80	15.39
31-Jul-20	29.82	16.00
3-Aug-20	30.01	17.33
4-Aug-20	29.97	16.89
5-Aug-20	29.95	16.28
6-Aug-20	29.90	17.17
7-Aug-20	29.92	17.83
10-Aug-20	29.90	17.22
11-Aug-20	29.92	17.67
12-Aug-20	29.91	16.83
13-Aug-20	29.90	19.67
14-Aug-20	29.86	24.56
17-Aug-20	29.93	19.67
18-Aug-20	29.94	20.50

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

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)
19-Aug-20	29.91	19.39
20-Aug-20	29.88	16.89
21-Aug-20	29.85	18.94
24-Aug-20	29.83	17.11
25-Aug-20	29.86	16.94
26-Aug-20	29.85	15.06
27-Aug-20	29.82	15.00
28-Aug-20	29.81	15.39
31-Aug-20	29.83	16.17
1-Sep-20	29.94	16.72
2-Sep-20	30.03	17.00
3-Sep-20	30.03	15.89
4-Sep-20	29.99	17.11
7-Sep-20	29.78	24.39
8-Sep-20	29.68	17.61
9-Sep-20	29.83	16.22
10-Sep-20	30.00	16.56
11-Sep-20	30.00	16.28
14-Sep-20	30.00	16.44
15-Sep-20	30.05	18.22
16-Sep-20	30.02	20.00
17-Sep-20	29.97	18.44
18-Sep-20	29.99	19.22
21-Sep-20	29.91	17.39
22-Sep-20	30.03	17.78
23-Sep-20	30.07	18.83
24-Sep-20	30.03	18.72
25-Sep-20	30.01	17.83
28-Sep-20	29.95	24.61
29-Sep-20	30.05	16.33
30-Sep-20	30.09	20.28
1-Oct-20	30.01	22.11
2-Oct-20	30.00	19.33
5-Oct-20	30.06	14.67
6-Oct-20	30.03	14.22
7-Oct-20	29.99	14.06
8-Oct-20	30.00	15.39
9-Oct-20	30.01	15.83
12-Oct-20	30.03	17.44
13-Oct-20	30.13	19.44
14-Oct-20	30.11	22.17

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

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)
15-Oct-20	30.03	24.06
16-Oct-20	30.00	25.44
19-Oct-20	30.02	16.17
20-Oct-20	29.93	17.50
21-Oct-20	29.86	17.61
22-Oct-20	29.90	15.67
23-Oct-20	30.01	15.17
24-Oct-20	30.02	14.83
26-Oct-20	30.15	17.67
27-Oct-20	30.12	18.50
28-Oct-20	30.12	16.22
29-Oct-20	30.10	15.56
30-Oct-20	30.10	13.61
31-Oct-20	30.12	15.39
2-Nov-20	30.12	16.50
3-Nov-20	30.13	13.50
4-Nov-20	30.24	16.44
5-Nov-20	30.10	16.89
6-Nov-20	29.83	13.44
7-Nov-20	29.77	12.06
9-Nov-20	30.21	11.22
10-Nov-20	30.26	11.39
11-Nov-20	30.13	12.33
12-Nov-20	30.13	11.61
13-Nov-20	30.17	12.22
14-Nov-20	30.30	12.00
16-Nov-20	30.06	15.06
17-Nov-20	29.94	14.94
18-Nov-20	30.11	14.89
19-Nov-20	30.32	12.28
20-Nov-20	30.29	12.56
21-Nov-20	30.22	11.94
23-Nov-20	30.08	12.39
24-Nov-20	30.16	11.61
25-Nov-20	30.25	12.11
30-Nov-20	30.31	10.8
1-Dec-20	30.24	10.9
2-Dec-20	30.16	12.3
3-Dec-20	30.29	11.9
4-Dec-20	30.29	11.6
7-Dec-20	30.22	15.4

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

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)
8-Dec-20	30.19	12.8
9-Dec-20	30.11	12.6
10-Dec-20	30.1	12.2
11-Dec-20	30.2	11.0
14-Dec-20	30.32	10.1
15-Dec-20	30.37	10.6
16-Dec-20	30.24	11.5
17-Dec-20	30.11	12.1
18-Dec-20	30.35	11.0
21-Dec-20	30.14	9.9
22-Dec-20	30.22	10.7
23-Dec-20	30.28	11.2
28-Dec-20	29.92	10.1
29-Dec-20	30.28	10.1
30-Dec-20	30.35	9.9
31-Dec-20	30.23	11.2

Notes:
Ambient pressure and ambient temperature data were gathered from the Wunderground
Ambient pressure and ambient temperature data were gathered from the Ambient
Data were collected from KSFO, San Francisco, San Francisco International Airport and
°C - degrees Celsius
in Hg - inches of mercury

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
20-Nov-19	Upwind	9.8	0.076	No	0.096	No	<0.016	No	0.050	No
20-Nov-19	Downwind	9.9	0.072	No	0.130	No	<0.016	No	0.022	No
21-Nov-19	Upwind	7.5	0.071	No	0.148	No	<0.016	No	0.050	No
21-Nov-19	Downwind	7.5	0.041	No	0.164	No	<0.016	No	<0.016	No
22-Nov-19	Upwind	8.8	0.060	No	0.122	No	0.023	No	0.203	No
22-Nov-19	Downwind	8.8	0.045	No	0.142	No	<0.016	No	<0.016	No
25-Nov-19	Upwind	8.9	0.052	No	0.116	No	<0.016	No	0.051	No
25-Nov-19	Downwind	8.7	0.043	No	0.127	No	<0.016	No	<0.016	No
26-Nov-19	Upwind	7.4	0.038	No	0.145	No	<0.016	No	<0.016	No
26-Nov-19	Downwind	7.5	0.024	No	0.122	No	<0.016	No	<0.016	No
27-Nov-19	Upwind	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1
27-Nov-19	Downwind	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1
28-Nov-19	Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
28-Nov-19	Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
29-Nov-19	Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
29-Nov-19	Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
2-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
2-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
3-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
3-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
4-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
4-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
5-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
5-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
6-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
6-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
9-Dec-19	Upwind	4.3	0.080	No	0.074	No	0.191	No	0.144	No
9-Dec-19	Downwind	4.1	0.105	No	<0.016	No	0.190	No	<0.016	No
10-Dec-19	Upwind	9.4	0.077	No	<0.016	No	0.056	No	0.099	No
10-Dec-19	Downwind	9.4	0.069	No	<0.016	No	0.064	No	<0.016	No
11-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
11-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
12-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
12-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
13-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
13-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
16-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
16-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
17-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
17-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
18-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
18-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
19-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
19-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
20-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
20-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
23-Dec-19	Upwind	7.5	0.028	No	0.095	No	0.069	No	0.294	No
23-Dec-19	Downwind	7.5	0.013	No	0.083	No	0.050	No	0.063	No
24-Dec-19	Upwind	6.8	0.016	No	0.082	No	0.082	No	0.087	No
24-Dec-19	Downwind	6.9	0.018	No	0.090	No	0.090	No	0.060	No
25-Dec-19	Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
25-Dec-19	Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
26-Dec-19	Upwind	7.433	0.009	No	0.118	No	0.078	No	0.053	No
26-Dec-19	Downwind	7.5	<0.016	No	0.1	No	0.047	No	0.042	No
27-Dec-19	Upwind	7.517	0.019	No	0.049	No	0.036	No	0.054	No
27-Dec-19	Downwind	7.667	0.011	No	0.119	No	0.065	No	0.046	No
30-Dec-19	Upwind	7.317	<0.016	No	0.076	No	0.089	No	0.055	No
30-Dec-19	Downwind	7.3	0.007	No	0.1	No	0.065	No	0.046	No
31-Dec-19	Upwind	7.067	0.010	No	0.128	No	0.080	No	0.130	No
31-Dec-19	Downwind	7.1	0.0	No	0.1	No	0.1	No	0.0	No
1-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
1-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
2-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
2-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
3-Jan-20	Upwind	7.6	0.039	No	<0.016	No	<0.016	No	0.040	No
3-Jan-20	Downwind	7.6	0.024	No	0.050	No	0.044	No	0.054	No
6-Jan-20	Upwind	7.6	0.022	No	<0.016	No	<0.016	No	0.030	No
6-Jan-20	Downwind	7.6	0.017	No	<0.016	No	<0.016	No	0.017	No
7-Jan-20	Upwind	7.9	0.019	No	<0.016	No	<0.016	No	0.015	No
7-Jan-20	Downwind	8.0	0.016	No	<0.016	No	<0.016	No	0.016	No
8-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
8-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
9-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
9-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
10-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
10-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
13-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
13-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
14-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
14-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
15-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
15-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
16-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
16-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
17-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
17-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
20-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
20-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
21-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
21-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
22-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
22-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
23-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
23-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
24-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
24-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
27-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
27-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
28-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
28-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
29-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
29-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
30-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
30-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
31-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
31-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
3-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
3-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
4-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
4-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
5-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
5-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
6-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
6-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
7-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
7-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
10-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
10-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
11-Feb-20	Upwind	7.2	0.029	No	<0.016	No	<0.016	No	0.0203	No
11-Feb-20	Downwind	7.2	0.042	No	<0.016	No	<0.016	No	<0.016	No
12-Feb-20	Upwind	5.5	0.023	No	<0.016	No	0.0396	No	<0.016	No
12-Feb-20	Downwind	5.6	0.032	No	<0.016	No	<0.016	No	<0.016	No
13-Feb-20	Upwind	5.3	0.018	No	<0.016	No	<0.016	No	<0.016	No
13-Feb-20	Downwind	5.1	0.015	No	<0.016	No	<0.016	No	<0.016	No
14-Feb-20	Upwind	7.8	0.010	No	<0.016	No	<0.016	No	<0.016	No
14-Feb-20	Downwind	7.7	0.008	No	<0.016	No	<0.016	No	<0.016	No
17-Feb-20	Upwind	7.7	0.013	No	<0.016	No	<0.016	No	0.1849	No
17-Feb-20	Downwind	7.6	0.007	No	<0.016	No	0.0284	No	<0.016	No
18-Feb-20	Upwind	7.0	0.008	No	<0.016	No	<0.016	No	<0.016	No
18-Feb-20	Downwind	7.1	0.012	No	<0.016	No	<0.016	No	<0.016	No
19-Feb-20	Upwind	3.8	0.018	No	<0.016	No	0.0560	No	<0.016	No
19-Feb-20	Downwind	3.9	<0.016	No	<0.016	No	<0.016	No	<0.016	No
20-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
20-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
20-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
21-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
24-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
24-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
25-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
25-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
26-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
26-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
27-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
27-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
28-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
28-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
2-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
2-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
3-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
3-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
4-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
4-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
5-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
5-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
6-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
6-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
9-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
9-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
10-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
10-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
11-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
11-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
12-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
12-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
13-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
13-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
16-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
16-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
17-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
17-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
18-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
18-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
19-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
19-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
20-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
20-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
23-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
23-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
24-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
24-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
25-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
25-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
26-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
26-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
27-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
27-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
30-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
30-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
31-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
31-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
1-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
1-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
2-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
2-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
3-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
3-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
6-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
6-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
7-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
7-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
8-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
8-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
9-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
9-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
10-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
10-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
13-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
13-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
14-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
14-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
15-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
15-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
15-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
15-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
16-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
16-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
17-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
17-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
20-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
20-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
21-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
21-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
22-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
22-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
23-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
23-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
24-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
24-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
27-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
27-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
28-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
28-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
29-Apr-20	Upwind	9.5	0.0090	No	<0.016	No	<0.016	No	<0.016	No
29-Apr-20	Downwind	9.4	0.0394	No	<0.016	No	<0.016	No	0.0363	No
30-Apr-20	Upwind	9.5	0.0188	No	<0.016	No	0.0240	No	0.0150	No
30-Apr-20	Downwind	9.6	0.0699	No	<0.016	No	0.0351	No	0.0519	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
1-May-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
1-May-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
4-May-20	Upwind	9.6	0.0223	No	<0.016	No	<0.016	No	0.0136	No
4-May-20	Downwind	9.6	0.0049	No	<0.016	No	<0.016	No	0.0410	No
5-May-20	Upwind	9.5	0.0428	No	<0.016	No	<0.016	No	0.0225	No
5-May-20	Downwind	9.4	0.0568	No	<0.016	No	0.0226	No	0.0351	No
6-May-20	Upwind	9.6	0.0226	No	<0.016	No	0.0215	No	0.0141	No
6-May-20	Downwind	9.5	0.0507	No	<0.016	No	0.0247	No	0.0322	No
7-May-20	Upwind	9.4	0.0543	No	<0.016	No	0.0429	No	0.0334	No
7-May-20	Downwind	9.5	0.0541	No	<0.016	No	0.0390	No	0.0336	No
8-May-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
8-May-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
11-May-20	Upwind	9.7	0.0356	No	<0.016	No	<0.016	No	0.0344	No
11-May-20	Downwind	9.6	0.0315	No	<0.016	No	0.0	No	0.0238	No
12-May-20	Upwind	9.6	0.0181	No	<0.016	No	<0.016	No	0.0135	No
12-May-20	Downwind	9.5	0.0239	No	<0.016	No	<0.016	No	0.0159	No
13-May-20	Upwind	9.6	0.0179	No	<0.016	No	<0.016	No	0.0187	No
13-May-20	Downwind	9.5	0.0131	No	<0.016	No	<0.016	No	<0.016	No
14-May-20	Upwind	9.5	0.0123	No	<0.016	No	<0.016	No	0.0144	No
14-May-20	Downwind	9.5	0.0101	No	<0.016	No	<0.016	No	0.0144	No
15-May-20	Upwind	9.4	0.0289	No	<0.016	No	<0.016	No	0.0146	No
15-May-20	Downwind	9.4	0.0206	No	<0.016	No	<0.016	No	0.0129	No
18-May-20	Upwind	9.7	0.0146	No	<0.016	No	<0.016	No	0.0093	No
18-May-20	Downwind	9.7	0.0220	No	<0.016	No	0.020	No	0.0258	No
19-May-20	Upwind	9.6	0.0342	No	<0.016	No	0.022	No	0.0176	No
19-May-20	Downwind	9.6	0.0137	No	<0.016	No	0.022	No	0.0153	No
20-May-20	Upwind	9.6	0.0266	No	<0.016	No	<0.016	No	0.0136	No
20-May-20	Downwind	9.5	0.0221	No	<0.016	No	<0.016	No	0.0139	No
21-May-20	Upwind	9.6	0.0393	No	<0.016	No	<0.016	No	0.0217	No
21-May-20	Downwind	9.7	0.0266	No	<0.016	No	0.019	No	0.0153	No
22-May-20	Upwind	9.5	0.0216	No	<0.016	No	0.019	No	0.0128	No
22-May-20	Downwind	9.5	0.0232	No	<0.016	No	<0.016	No	0.0154	No
25-May-20	Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
25-May-20	Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
26-May-20	Upwind	9.7	0.0485	No	<0.027	No	0.019	No	<0.0091	No
26-May-20	Downwind	9.6	0.0332	No	<0.028	No	<0.018	No	<0.0092	No
27-May-20	Upwind	9.6	0.0478	No	<0.028	No	<0.018	No	<0.0092	No
27-May-20	Downwind	9.5	0.0427	No	<0.028	No	<0.018	No	<0.0092	No
28-May-20	Upwind	9.6	0.0229	No	<0.028	No	<0.018	No	<0.0092	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
28-May-20	Downwind	9.5	0.0265	No	<0.028	No	<0.019	No	<0.0093	No
29-May-20	Upwind	9.5	0.0341	No	<0.028	No	<0.019	No	0.0105	No
29-May-20	Downwind	9.5	0.0158	No	<0.028	No	<0.019	No	<0.0093	No
30-May-20	Upwind	7.5	0.0340	No	<0.035	No	<0.023	No	<0.0117	No
30-May-20	Downwind	7.4	0.0280	No	<0.036	No	<0.024	No	<0.0119	No
1-Jun-20	Upwind	7.6	0.0532	No	<0.035	No	<0.023	No	<0.0116	No
1-Jun-20	Downwind	7.6	0.0407	No	<0.035	No	<0.023	No	<0.0116	No
2-Jun-20	Upwind	7.6	0.0991	No	<0.035	No	<0.023	No	<0.0208	No
2-Jun-20	Downwind	7.6	0.0564	No	<0.035	No	<0.023	No	<0.0117	No
3-Jun-20	Upwind	8.6	0.0917	No	<0.031	No	<0.021	No	0.0202	No
3-Jun-20	Downwind	7.6	0.0924	No	<0.035	No	<0.023	No	<0.026	No
4-Jun-20	Upwind	7.5	0.1180	No	<0.035	No	<0.029	No	0.0440	No
4-Jun-20	Downwind	7.5	0.0364	No	<0.035	No	<0.023	No	0.0117	No
5-Jun-20	Upwind	9.8	0.0302	No	<0.027	No	0.029	No	0.0090	No
5-Jun-20	Downwind	9.7	0.0255	No	<0.027	No	<0.018	No	<0.0091	No
8-Jun-20	Upwind	9.7	0.0443	No	<0.027	No	<0.018	No	<0.0091	No
8-Jun-20	Downwind	9.8	0.0295	No	<0.027	No	<0.018	No	<0.0090	No
9-Jun-20	Upwind	9.7	0.0478	No	<0.027	No	<0.018	No	<0.0091	No
9-Jun-20	Downwind	9.8	0.0335	No	<0.027	No	<0.018	No	<0.0090	No
10-Jun-20	Upwind	9.8	0.0438	No	<0.027	No	<0.018	No	<0.0091	No
10-Jun-20	Downwind	9.8	0.0323	No	<0.027	No	<0.018	No	<0.0091	No
11-Jun-20	Upwind	9.6	0.0328	No	<0.027	No	<0.018	No	<0.0092	No
11-Jun-20	Downwind	9.8	0.0201	No	<0.027	No	<0.018	No	<0.0091	No
12-Jun-20	Upwind	9.5	0.0370	No	<0.028	No	<0.019	No	<0.0138	No
12-Jun-20	Downwind	9.6	0.0154	No	<0.028	No	<0.018	No	<0.0092	No
13-Jun-20	Upwind	9.7	0.0561	No	<0.027	No	<0.018	No	<0.0428	No
13-Jun-20	Downwind	9.7	0.0451	No	<0.027	No	<0.018	No	<0.0431	No
15-Jun-20	Upwind	9.8	0.0436	No	<0.027	No	<0.018	No	0.0208	No
15-Jun-20	Downwind	9.8	0.0325	No	<0.027	No	<0.018	No	0.0174	No
17-Jun-20	Upwind	9.6	0.0580	No	<0.028	No	<0.018	No	0.0370	No
17-Jun-20	Downwind	9.7	0.0331	No	<0.027	No	<0.018	No	0.0232	No
18-Jun-20	Upwind	9.7	0.0753	No	<0.027	No	<0.018	No	0.0418	No
18-Jun-20	Downwind	9.7	0.0625	No	<0.027	No	<0.018	No	0.0343	No
19-Jun-20	Upwind	9.8	0.0531	No	<0.027	No	<0.018	No	0.0275	No
19-Jun-20	Downwind	9.8	0.0380	No	<0.027	No	<0.018	No	0.0237	No
20-Jun-20	Upwind	9.8	0.0421	No	<0.027	No	<0.018	No	0.0406	No
20-Jun-20	Downwind	9.8	0.0171	No	<0.027	No	<0.018	No	0.0107	No
22-Jun-20	Upwind	9.6	0.0468	No	<0.028	No	<0.018	No	0.0359	No
22-Jun-20	Downwind	9.7	0.0335	No	<0.027	No	<0.018	No	0.0229	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
23-Jun-20	Upwind	9.7	0.0375	No	<0.027	No	<0.018	No	0.0281	No
23-Jun-20	Downwind	9.7	0.0273	No	<0.027	No	<0.018	No	0.0216	No
24-Jun-20	Upwind	9.7	0.0344	No	<0.027	No	<0.018	No	0.0206	No
24-Jun-20	Downwind	9.7	0.0297	No	<0.027	No	<0.018	No	0.0228	No
25-Jun-20	Upwind	9.7	0.0354	No	<0.027	No	<0.018	No	0.0251	No
25-Jun-20	Downwind	9.7	0.0201	No	<0.027	No	<0.018	No	0.0126	No
26-Jun-20	Upwind	9.6	0.0305	No	<0.027	No	<0.018	No	0.0108	No
26-Jun-20	Downwind	9.7	0.0229	No	<0.027	No	<0.018	No	0.0130	No
27-Jun-20	Upwind	9.7	0.0741	No	<0.027	No	0.028	No	0.0620	No
27-Jun-20	Downwind	9.5	0.0352	No	<0.027	No	<0.018	No	0.0162	No
29-Jun-20	Upwind	9.5	0.0615	No	<0.028	No	0.0112	No	0.0204	No
29-Jun-20	Downwind	9.6	0.0491	No	<0.028	No	0.0135	No	0.0167	No
30-Jun-20	Upwind	9.1	0.0622	No	<0.029	No	0.0147	No	0.0275	No
30-Jun-20	Downwind	9.0	0.0449	No	<0.029	No	0.0159	No	0.0163	No
1-Jul-20	Upwind	9.2	0.0665	No	<0.029	No	0.0173	No	0.0385	No
1-Jul-20	Downwind	9.3	0.0353	No	<0.029	No	0.0073	No	0.0152	No
2-Jul-20	Upwind	9.6	0.0279	No	<0.028	No	0.0183	No	0.0167	No
2-Jul-20	Downwind	9.3	0.0166	No	<0.028	No	0.0197	No	0.0240	No
3-Jul-20	Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
3-Jul-20	Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
6-Jul-20	Upwind	9.1	0.1110	No	0.02330	No	0.0190	No	<0.038	No
6-Jul-20	Downwind	9.1	0.0630	No	<0.029	No	0.0078	No	<0.010	No
7-Jul-20	Upwind	9.7	0.0460	No	<0.027	No	0.0088	No	<0.009	No
7-Jul-20	Downwind	9.7	0.0287	No	<0.027	No	0.0092	No	<0.009	No
8-Jul-20	Upwind	9.8	0.0690	No	<0.027	No	0.0130	No	<0.009	No
8-Jul-20	Downwind	9.5	0.0329	No	<0.028	No	0.0112	No	<0.009	No
9-Jul-20	Upwind	9.4	0.0462	No	<0.028	No	<0.019	No	<0.009	No
9-Jul-20	Downwind	9.4	0.0366	No	0.01090	No	<0.019	No	<0.009	No
10-Jul-20	Upwind	9.2	0.0302	No	<0.029	No	0.0069	No	<0.010	No
10-Jul-20	Downwind	9.1	0.0566	No	<0.029	No	0.0107	No	<0.010	No
13-Jul-20	Upwind	8.5	0.1370	No	<0.031	No	0.0312	No	0.1264	No
13-Jul-20	Downwind	8.4	0.0434	No	<0.031	No	0.0210	No	0.0107	No
14-Jul-20	Upwind	9.1	0.0612	No	<0.029	No	0.0092	No	0.0470	No
14-Jul-20	Downwind	8.8	0.0351	No	<0.030	No	0.0200	No	0.0090	No
15-Jul-20	Upwind	9.3	0.0497	No	<0.028	No	0.0050	No	0.0177	No
15-Jul-20	Downwind	8.8	0.0385	No	<0.030	No	0.0200	No	0.0157	No
16-Jul-20	Upwind	9.1	0.0486	No	<0.029	No	0.0194	No	0.0224	No
16-Jul-20	Downwind	8.9	0.0458	No	<0.030	No	0.0198	No	0.0262	No
17-Jul-20	Upwind	9.6	0.0380	No	<0.028	No	0.0073	No	0.0148	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
17-Jul-20	Downwind	9.2	0.0280	No	0.02386	No	0.0191	No	0.0235	No
20-Jul-20	Upwind	9.3	Note 4	NA	0.01086	No	0.0200	No	0.0218	No
20-Jul-20	Downwind	8.9	Note 4	NA	<0.03	No	0.0185	No	0.0178	No
21-Jul-20	Upwind	9.5	Note 4	NA	<0.028	No	0.0076	No	0.0143	No
21-Jul-20	Downwind	9.1	Note 4	NA	<0.029	No	0.0277	No	0.0321	No
22-Jul-20	Upwind	8.6	Note 4	NA	<0.031	No	0.0294	No	0.0795	No
22-Jul-20	Downwind	9.1	Note 4	NA	<0.029	No	0.0309	No	0.0159	No
23-Jul-20	Upwind	9.7	Note 4	NA	0.01198	No	0.0266	No	0.0233	No
23-Jul-20	Downwind	9.7	Note 4	NA	<0.028	No	0.0125	No	0.0225	No
24-Jul-20	Upwind	9.8	Note 4	NA	<0.027	No	0.0217	No	0.0904	No
24-Jul-20	Downwind	9.3	Note 4	NA	<0.028	No	0.0166	No	0.0268	No
27-Jul-20	Upwind	9.8	0.0361	No	0.01000	No	0.0145	No	0.0172	No
27-Jul-20	Downwind	9.3	0.0398	No	0.01500	No	0.0201	No	0.0315	No
28-Jul-20	Upwind	9.7	0.0447	No	<0.027	No	0.0236	No	0.0274	No
28-Jul-20	Downwind	9.4	0.0250	No	0.03300	No	0.0206	No	0.0155	No
29-Jul-20	Upwind	9.7	0.0313	No	0.01500	No	0.0116	No	0.0180	No
29-Jul-20	Downwind	9.4	0.0276	No	<0.028	No	0.0201	No	0.0176	No
30-Jul-20	Upwind	9.8	0.0314	No	<0.027	No	0.0196	No	0.0147	No
30-Jul-20	Downwind	9.4	0.0212	No	0.01052	No	0.0167	No	0.0142	No
31-Jul-20	Upwind	9.7	0.0364	No	<0.027	No	0.0159	No	0.0136	No
31-Jul-20	Downwind	9.3	0.0215	No	0.02626	No	0.0226	No	0.0127	No
3-Aug-20	Upwind	9.7	0.0569	No	<0.027	No	0.0242	No	0.0280	No
3-Aug-20	Downwind	9.3	0.0883	No	<0.028	No	0.0463	No	0.0599	No
4-Aug-20	Upwind	9.5	0.0503	No	<0.028	No	0.0358	No	0.0278	No
4-Aug-20	Downwind	9.2	0.0458	No	<0.029	No	0.0359	No	0.0195	No
5-Aug-20	Upwind	9.7	0.0741	No	<0.027	No	0.0346	No	0.0357	No
5-Aug-20	Downwind	9.3	0.0391	No	<0.029	No	0.0299	No	0.0208	No
6-Aug-20	Upwind	9.7	0.0499	No	<0.027	No	0.0310	No	0.0235	No
6-Aug-20	Downwind	9.3	0.0452	No	<0.028	No	0.0388	No	0.0223	No
7-Aug-20	Upwind	9.6	0.0669	No	<0.028	No	0.0349	No	0.0192	No
7-Aug-20	Downwind	9.3	0.0756	No	<0.029	No	0.0270	No	0.0239	No
10-Aug-20	Upwind	8.8	0.0539	No	0.01631	No	0.0352	No	0.0537	No
10-Aug-20	Downwind	8.5	0.0568	No	0.01513	No	0.0312	No	0.0573	No
11-Aug-20	Upwind	9.8	0.0395	No	0.00994	No	0.0346	No	0.0578	No
11-Aug-20	Downwind	9.4	0.0224	No	<0.028	No	0.0374	No	0.0244	No
12-Aug-20	Upwind	9.8	0.0373	No	0.03365	No	0.0235	No	0.0231	No
12-Aug-20	Downwind	9.4	0.0347	No	<0.028	No	0.0287	No	0.0320	No
13-Aug-20	Upwind	9.8	0.0598	No	<0.027	No	0.0373	No	0.0341	No
13-Aug-20	Downwind	9.5	0.0590	No	<0.028	No	0.0300	No	0.0363	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
14-Aug-20	Upwind	9.8	0.0708	No	0.01277	No	0.0534	No	0.0521	No
14-Aug-20	Downwind	9.4	0.0519	No	0.01341	No	0.0391	No	0.0361	No
17-Aug-20	Upwind	4.9	0.0731	No	<0.054	No	0.0240	No	0.0811	No
17-Aug-20	Downwind	4.7	0.0371	No	<0.057	No	0.0327	No	0.0619	No
18-Aug-20	Upwind	8.2	0.0663	No	<0.032	No	0.0184	No	0.0764	No
18-Aug-20	Downwind	7.8	0.0748	No	<0.034	No	0.0301	No	0.0789	No
19-Aug-20	Upwind	10.7	0.0899	No	<0.025	No	0.0225	No	0.1014	No
19-Aug-20	Downwind	10.3	0.1090	No	<0.026	No	0.0236	No	0.1175	No
20-Aug-20	Upwind	10.7	0.0447	No	<0.025	No	<0.017	No	0.0510	No
20-Aug-20	Downwind	10.3	0.0382	No	<0.026	No	0.0066	No	0.0439	No
21-Aug-20	Upwind	10.7	0.0430	No	<0.025	No	0.0083	No	0.0322	No
21-Aug-20	Downwind	10.4	0.0608	No	<0.026	No	0.0063	No	0.0427	No
24-Aug-20	Upwind	7.4	0.1020	No	0.02400	No	<0.024	No	0.0637	No
24-Aug-20	Downwind	7.5	0.0918	No	0.01659	No	0.0187	No	0.0719	No
25-Aug-20	Upwind	7.6	0.0846	No	<0.035	No	0.0069	No	0.0541	No
25-Aug-20	Downwind	8.3	0.0744	No	<0.032	No	0.0122	No	0.0519	No
26-Aug-20	Upwind	9.7	0.0438	No	<0.027	No	0.0160	No	0.0560	No
26-Aug-20	Downwind	9.4	0.0307	No	<0.028	No	0.0073	No	0.1356	No
27-Aug-20	Upwind	7.6	0.0710	No	0.02188	No	0.0124	No	0.0689	No
27-Aug-20	Downwind	7.2	0.0374	No	<0.037	No	<0.026	No	0.0424	No
28-Aug-20	Upwind	9.8	0.0917	No	<0.027	No	0.0125	No	0.0352	No
28-Aug-20	Downwind	9.4	0.1080	No	<0.028	No	0.0142	No	0.0590	No
31-Aug-20	Upwind	8.8	0.0670	No	<0.030	No	<0.020	No	0.0245	No
31-Aug-20	Downwind	8.4	0.0790	No	<0.031	No	<0.021	No	0.0382	No
1-Sep-20	Upwind	7.9	0.0804	No	0.0127	No	<0.023	No	0.0380	No
1-Sep-20	Downwind	8.4	0.0673	No	<0.0315	No	<0.021	No	0.0407	No
2-Sep-20	Upwind	8.8	0.0528	No	<0.03	No	<0.019	No	0.0287	No
2-Sep-20	Downwind	8.4	0.0782	No	<0.031	No	<0.021	No	0.0334	No
3-Sep-20	Upwind	8.4	0.0485	No	<0.031	No	<0.021	No	0.0263	No
3-Sep-20	Downwind	8.0	0.0398	No	<0.033	No	<0.022	No	0.0298	No
4-Sep-20	Upwind	10.1	0.0463	No	0.01608	No	<0.018	No	0.0263	No
4-Sep-20	Downwind	9.8	0.0366	No	<0.027	No	<0.018	No	0.0151	No
7-Sep-20	Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
7-Sep-20	Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
8-Sep-20	Upwind	9.8	0.1370	No	<0.027	No	0.0056	No	0.3248	No
8-Sep-20	Downwind	9.5	0.1690	No	<0.028	No	0.0239	No	0.5864	No
9-Sep-20	Upwind	5.4	0.1670	No	<0.049	No	<0.033	No	1.0838	No
9-Sep-20	Downwind	5.1	0.1950	No	<0.052	No	<0.035	No	1.0651	No
10-Sep-20	Upwind	7.5	0.2340	No	<0.035	No	0.0261	No	0.4716	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
10-Sep-20	Downwind	7.2	0.2130	No	<0.037	No	<0.025	No	0.4823	No
11-Sep-20	Upwind	8.2	0.2230	No	<0.032	No	<0.022	No	0.2054	No
11-Sep-20	Downwind	7.8	0.2540	No	<0.034	No	<0.023	No	0.2066	No
14-Sep-20	Upwind	7.1	0.1830	No	<0.037	No	0.0126	No	0.1464	No
14-Sep-20	Downwind	7.1	0.1500	No	<0.0373	No	<0.025	No	0.0305	No
15-Sep-20	Upwind	6.8	0.0571	No	<0.039	No	<0.026	No	<0.013	No
15-Sep-20	Downwind	7.0	0.0490	No	<0.038	No	0.0102	No	<0.013	No
16-Sep-20	Upwind	7.5	0.0198	No	<0.035	No	<0.024	No	<0.012	No
16-Sep-20	Downwind	7.5	0.0506	No	<0.035	No	<0.024	No	0.0073	No
17-Sep-20	Upwind	7.4	0.0498	No	0.02052	No	<0.024	No	0.0261	No
17-Sep-20	Downwind	7.1	0.0579	No	<0.037	No	<0.025	No	0.0081	No
18-Sep-20	Upwind	9.7	0.0406	No	0.01320	No	<0.018	No	0.0094	No
18-Sep-20	Downwind	9.4	0.0311	No	<0.028	No	<0.019	No	<0.009	No
21-Sep-20	Upwind	9.7	0.0589	No	<0.027	No	<0.018	No	0.0339	No
21-Sep-20	Downwind	9.3	0.0454	No	<0.029	No	<0.019	No	0.0368	No
22-Sep-20	Upwind	9.6	0.0296	No	<0.027	No	<0.018	No	0.0413	No
22-Sep-20	Downwind	9.2	0.0486	No	<0.029	No	0.0095	No	0.0509	No
23-Sep-20	Upwind	9.7	0.0319	No	<0.027	No	0.0053	No	0.0201	No
23-Sep-20	Downwind	9.4	0.0394	No	<0.028	No	0.0075	No	0.0317	No
24-Sep-20	Upwind	9.4	0.1040	No	<0.028	No	0.0105	No	0.0624	No
24-Sep-20	Downwind	9.1	0.0912	No	<0.029	No	0.0130	No	0.0405	No
25-Sep-20	Upwind	9.6	0.0468	No	0.01000	No	0.0071	No	0.0118	No
25-Sep-20	Downwind	9.3	0.0722	No	<0.028	No	<0.019	No	0.0504	No
28-Sep-20	Upwind	7.6	0.1280	No	0.01276	No	<0.023	No	0.3797	No
28-Sep-20	Downwind	7.6	0.1190	No	<0.035	No	0.0174	No	0.3958	No
29-Sep-20	Upwind	7.6	0.0526	No	<0.035	No	0.0244	No	0.0549	No
29-Sep-20	Downwind	7.2	0.0452	No	<0.037	No	0.0169	No	0.0640	No
30-Sep-20	Upwind	7.7	0.0496	No	<0.034	No	0.0135	No	0.0507	No
30-Sep-20	Downwind	7.4	0.0389	No	<0.036	No	0.0121	No	0.0389	No
1-Oct-20	Upwind	7.4	0.0971	No	<0.036	No	0.0158	No	0.1108	No
1-Oct-20	Downwind	7.1	0.0812	No	0.01460	No	0.0116	No	0.0773	No
2-Oct-20	Upwind	7.5	0.1120	No	<0.036	No	0.0101	No	0.0806	No
2-Oct-20	Downwind	7.5	0.1040	No	<0.035	No	0.0109	No	0.0824	No
5-Oct-20	Upwind	7.5	0.0618	No	<0.035	No	0.0131	No	0.0541	No
5-Oct-20	Downwind	7.3	0.0453	No	<0.036	No	0.0102	No	0.0363	No
6-Oct-20	Upwind	7.4	0.0418	No	<0.036	No	0.0079	No	0.0283	No
6-Oct-20	Downwind	7.2	0.0469	No	<0.037	No	0.0085	No	0.0414	No
7-Oct-20	Upwind	7.0	0.0611	No	<0.038	No	<0.025	No	0.0263	No
7-Oct-20	Downwind	6.5	0.0844	No	0.02018	No	0.0170	No	0.0833	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
8-Oct-20	Upwind	7.1	0.0467	No	0.02708	No	0.0116	No	0.0312	No
8-Oct-20	Downwind	7.0	0.0121	No	<0.038	No	0.0433	No	0.1123	No
9-Oct-20	Upwind	7.7	0.0143	No	0.02751	No	<0.023	No	0.0122	No
9-Oct-20	Downwind	7.5	0.0107	No	<0.035	No	0.0118	No	0.0101	No
12-Oct-20	Upwind	7.5	0.0357	No	<0.036	No	<0.024	No	0.0367	No
12-Oct-20	Downwind	7.5	0.0397	No	<0.035	No	<0.024	No	0.0387	No
13-Oct-20	Upwind	7.6	0.0659	No	<0.035	No	0.0202	No	0.0651	No
13-Oct-20	Downwind	7.6	0.0484	No	<0.035	No	0.0115	No	0.0381	No
14-Oct-20	Upwind	7.5	0.0667	No	<0.035	No	0.0112	No	0.0605	No
14-Oct-20	Downwind	7.5	0.0479	No	<0.035	No	0.0180	No	0.0508	No
15-Oct-20	Upwind	7.6	0.1200	No	<0.035	No	0.0191	No	0.1742	No
15-Oct-20	Downwind	7.6	0.3540	No	<0.035	No	0.0268	No	0.1857	No
16-Oct-20	Upwind	7.8	0.1250	No	<0.034	No	0.0350	No	0.2368	No
16-Oct-20	Downwind	7.5	0.0735	No	<0.035	No	0.0186	No	0.1417	No
19-Oct-20	Upwind	7.8	0.0484	No	<0.034	No	0.0068	No	0.0394	No
19-Oct-20	Downwind	7.5	0.0585	No	<0.035	No	0.0138	No	0.0587	No
20-Oct-20	Upwind	7.7	0.0588	No	<0.034	No	0.0080	No	0.0547	No
20-Oct-20	Downwind	7.4	0.0615	No	<0.036	No	0.0236	No	0.0508	No
21-Oct-20	Upwind	19.1	0.0596	No	<0.014	No	0.0083	No	0.0334	No
21-Oct-20	Downwind	19.1	0.0662	No	<0.014	No	0.0154	No	0.0532	No
22-Oct-20	Upwind	18.0	0.0591	No	<0.015	No	0.0047	No	0.0378	No
22-Oct-20	Downwind	18.0	0.0742	No	<0.015	No	0.0167	No	0.0612	No
23-Oct-20	Upwind	17.4	0.0712	No	<0.015	No	0.0107	No	0.0610	No
23-Oct-20	Downwind	17.4	0.0622	No	<0.015	No	0.0032	No	0.0479	No
24-Oct-20	Upwind	4.2	0.0968	No	<0.064	No	0.0182	No	0.0999	No
24-Oct-20	Downwind	5.2	0.0399	No	<0.051	No	<0.034	No	0.0367	No
26-Oct-20	Upwind	7.6	0.1690	No	<0.035	No	0.0237	No	0.3997	No
26-Oct-20	Downwind	7.2	0.1160	No	<0.037	No	0.0104	No	0.3937	No
27-Oct-20	Upwind	7.7	0.1010	No	<0.034	No	0.0176	No	0.1174	No
27-Oct-20	Downwind	7.3	0.0552	No	<0.036	No	<0.024	No	0.1136	No
28-Oct-20	Upwind	7.7	0.2390	No	<0.034	No	0.0356	No	0.3120	No
28-Oct-20	Downwind	7.4	0.1140	No	<0.036	No	0.0087	No	0.1502	No
29-Oct-20	Upwind	12.5	0.1280	No	<0.021	No	0.0121	No	0.1575	No
29-Oct-20	Downwind	12.3	0.0824	No	<0.022	No	0.0072	No	0.1374	No
30-Oct-20	Upwind	17.3	0.0520	No	<0.015	No	0.0090	No	0.0515	No
30-Oct-20	Downwind	17.2	0.0337	No	<0.015	No	0.0038	No	0.0480	No
31-Oct-20	Upwind	7.7	0.0681	No	<0.035	No	0.0246	No	0.1457	No
31-Oct-20	Downwind	7.7	0.0399	No	<0.035	No	<0.023	No	0.0652	No
2-Nov-20	Upwind	15.5	0.1290	No	0.00750	No	0.0199	No	0.1276	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
2-Nov-20	Downwind	15.4	0.0693	No	<0.017	No	0.0164	No	0.0736	No
3-Nov-20	Upwind	17.3	0.0253	No	0.00795	No	0.0046	No	0.0164	No
3-Nov-20	Downwind	17.4	0.0334	No	0.00843	No	0.0043	No	0.0333	No
4-Nov-20	Upwind	18.3	0.0488	No	0.00549	No	0.0133	No	0.0338	No
4-Nov-20	Downwind	18.2	0.0189	No	0.00895	No	0.0065	No	0.0132	No
5-Nov-20	Upwind	19.3	0.0391	No	<0.014	No	0.0106	No	0.0295	No
5-Nov-20	Downwind	19.3	0.0470	No	<0.014	No	0.0092	No	0.0490	No
6-Nov-20	Upwind	17.3	0.0755	No	<0.015	No	0.0147	No	0.0757	No
6-Nov-20	Downwind	20.2	0.0592	No	0.00656	No	0.0080	No	0.0487	No
7-Nov-20	Upwind	21.2	0.0327	No	<0.012	No	0.0026	No	0.0247	No
7-Nov-20	Downwind	21.2	0.0603	No	<0.012	No	0.0114	No	0.0691	No
9-Nov-20	Upwind	12.3	0.0263	No	<0.021	No	0.0079	No	0.0260	No
9-Nov-20	Downwind	12.3	0.0135	No	<0.022	No	<0.014	No	0.0200	No
10-Nov-20	Upwind	12.2	0.0369	No	<0.022	No	<0.014	No	0.0189	No
10-Nov-20	Downwind	12.2	0.0239	No	<1.302	No	<0.868	No	0.5955	No
11-Nov-20	Upwind	12.4	0.0472	No	<0.021	No	<0.014	No	0.0444	No
11-Nov-20	Downwind	12.4	0.0284	No	<0.021	No	<0.014	No	0.0149	No
12-Nov-20	Upwind	12.4	0.0365	No	<0.021	No	<0.014	No	0.0231	No
12-Nov-20	Downwind	12.3	0.0359	No	<0.022	No	<0.014	No	0.0204	No
13-Nov-20	Upwind	6.3	0.0320	No	<0.042	No	<0.028	No	0.0282	No
13-Nov-20	Downwind	5.9	0.0164	No	<0.045	No	<0.029	No	<0.015	No
14-Nov-20	Upwind	12.5	0.0154	No	<0.021	No	<0.014	No	<0.007	No
14-Nov-20	Downwind	12.5	0.0173	No	<0.021	No	<0.014	No	0.0061	No
16-Nov-20	Upwind	7.5	0.0666	No	<0.036	No	0.0164	No	0.0765	No
16-Nov-20	Downwind	7.1	0.0349	No	<0.037	No	<0.025	No	0.0281	No
17-Nov-20	Upwind	2.6	0.1780	No	<0.102	No	0.0435	No	0.0945	No
17-Nov-20	Downwind	3.4	<0.0130	No	<0.078	No	0.0177	No	0.0296	No
18-Nov-20	Upwind	16.5	0.0246	No	<0.016	No	<0.011	No	0.0085	No
18-Nov-20	Downwind	16.7	0.0080	No	<0.016	No	<0.011	No	0.0034	No
19-Nov-20	Upwind	18.9	0.0344	No	<0.014	No	0.0036	No	0.0086	No
19-Nov-20	Downwind	18.8	0.0123	No	<0.014	No	0.0056	No	0.0053	No
20-Nov-20	Upwind	18.8	0.0969	No	<0.014	No	0.0043	No	0.0162	No
20-Nov-20	Downwind	18.7	0.0336	No	<0.014	No	0.0062	No	0.0126	No
21-Nov-20	Upwind	18.2	0.0194	No	<0.014	No	0.0106	No	0.0210	No
21-Nov-20	Downwind	18.1	0.0647	No	<0.014	No	0.0078	No	0.0114	No
23-Nov-20	Upwind	7.3	0.0150	No	<0.036	No	0.0088	No	0.0178	No
23-Nov-20	Downwind	7.3	0.0301	No	<0.036	No	0.0219	No	0.0275	No
24-Nov-20	Upwind	6.8	0.0157	No	<0.039	No	0.0090	No	0.0170	No
24-Nov-20	Downwind	6.8	0.0173	No	<0.039	No	0.0092	No	0.0191	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
25-Nov-20	Upwind	7.5	0.0236	No	<0.035	No	0.0178	No	0.0207	No
25-Nov-20	Downwind	7.4	0.0176	No	<0.036	No	0.0115	No	0.0230	No
26-Nov-20	Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
26-Nov-20	Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
27-Nov-20	Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
27-Nov-20	Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
30-Nov-20	Upwind	14.38	0.0507	No	<0.0184	No	0.00906	No	0.0376	No
30-Nov-20	Downwind	14.33	0.0416	No	<0.0185	No	0.0153	No	0.0295	No
1-Dec-20	Upwind	15.83	0.0444	No	<0.0167	No	0.00717	No	0.0344	No
1-Dec-20	Downwind	15.83	0.0366	No	<0.0167	No	0.00804	No	0.0243	No
2-Dec-20	Upwind	15.92	0.111	No	<0.0166	No	0.0188	No	0.0816	No
2-Dec-20	Downwind	15.83	0.0341	No	<0.0167	No	<0.0112	No	0.0176	No
3-Dec-20	Upwind	16.58	0.0711	No	<0.0160	No	0.00531	No	0.0334	No
3-Dec-20	Downwind	16.60	0.131	No	<0.0160	No	0.0202	No	0.114	No
4-Dec-20	Upwind	16.75	0.0666	No	<0.0158	No	0.0101	No	0.0456	No
4-Dec-20	Downwind	16.53	0.0781	No	<0.0160	No	0.00721	No	0.0448	No
5-Dec-20	Upwind	8.07	0.0575	No	0.0173	No	0.00598	No	0.0345	No
5-Dec-20	Downwind	7.80	0.0553	No	<0.0340	No	0.0110	No	0.0398	No
7-Dec-20	Upwind	7.55	0.0758	No	<0.0351	No	0.0139	No	0.109	No
7-Dec-20	Downwind	7.55	0.0688	No	<0.0351	No	0.0337	No	0.0805	No
8-Dec-20	Upwind	7.37	0.0663	No	<0.0359	No	0.0266	No	0.0817	No
8-Dec-20	Downwind	7.33	0.0544	No	<0.0361	No	<0.0241	No	0.0518	No
9-Dec-20	Upwind	7.42	0.147	No	<0.0357	No	0.0389	No	0.130	No
9-Dec-20	Downwind	7.42	0.116	No	<0.0357	No	0.0252	No	0.0930	No
10-Dec-20	Upwind	7.42	0.0926	No	<0.0357	No	0.0155	No	0.0702	No
10-Dec-20	Downwind	7.42	0.0938	No	<0.0357	No	0.0118	No	0.0661	No
11-Dec-20	Upwind	7.25	0.0359	No	<0.0365	No	<0.0244	No	0.0414	No
11-Dec-20	Downwind	7.17	0.190	No	<0.0370	No	0.0359	No	0.234	No
14-Dec-20	Upwind	7.38	0.0136	No	<0.0359	No	<0.0239	No	0.00945	No
14-Dec-20	Downwind	7.32	0.00603	No	<0.0362	No	0.0172	No	0.00794	No
15-Dec-20	Upwind	6.90	0.0119	No	<0.0384	No	<0.0256	No	0.0161	No
15-Dec-20	Downwind	6.78	0.00651	No	<0.0390	No	<0.0260	No	0.0130	No
16-Dec-20	Upwind	7.25	0.0227	No	<0.0365	No	0.0180	No	0.0215	No
16-Dec-20	Downwind	7.08	0.0193	No	<0.0374	No	0.00663	No	0.00989	No
17-Dec-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
17-Dec-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
18-Dec-20	Upwind	7.83	0.0131	No	0.0257	No	<0.0225	No	0.0175	No
18-Dec-20	Downwind	7.50	0.00588	No	<0.0353	No	0.00626	No	0.0113	No
21-Dec-20	Upwind	7.38	0.0351	No	0.0191	No	0.0184	No	0.0245	No
21-Dec-20	Downwind	6.83	0.0254	No	<0.0388	No	<0.0258	No	0.0103	No
22-Dec-20	Upwind	7.32	0.00744	No	<0.0362	No	<0.0241	No	0.0171	No
22-Dec-20	Downwind	7.20	0.00613	No	0.0175	No	<0.0245	No	0.00944	No
23-Dec-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
23-Dec-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
24-Dec-20	Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
24-Dec-20	Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
25-Dec-20	Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
25-Dec-20	Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
28-Dec-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
28-Dec-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
29-Dec-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
29-Dec-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
30-Dec-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
30-Dec-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
31-Dec-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
31-Dec-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
1-Jan-21	Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
1-Jan-21	Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2

Notes:
Note 1: Sample not collected due to inclement conditions: Rain.
Note 2: Samples were not collected as project site was closed for holidays.
Note 3: Samples were not collected as no excavation was conducted.
Sample locations are shown on Figure 1.

The threshold criteria are as follows: TSP = 0.5 mg/m^3, arsenic = 10 $\mu g/m^3$, lead = 50 $\mu g/m^3$, manganese = 200 $\mu g/m^3$.
The detection limit for TSP is 0.06 $\mu g/m^3$ assuming a minimum sample volume of 1,600 m^3. The detection limits for arsenic, lead and manganese are 16 ng/m^3 assuming minimum sample volumes of 1,600 m^3.

$\mu g/m^3$ - microgram per cubic meter
mg/m^3 - milligram per cubic meter
N/A - not applicable
ng/m^3 - nanogram per cubic meter
TSP - total suspended particulates

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 ($\mu g/m^3$)	PM10 Exceedance? (Yes/No)
20-Nov-19	Upwind	9.8	43.7	No
20-Nov-19	Downwind	9.9	29.7	No
21-Nov-19	Upwind	7.5	45.5	No
21-Nov-19	Downwind	7.5	33.4	No
22-Nov-19	Upwind	8.8	5.35	No
22-Nov-19	Downwind	8.8	38.8	No
25-Nov-19	Upwind	8.9	31.3	No
25-Nov-19	Downwind	8.7	24.1	No
26-Nov-19	Upwind	7.4	23.1	No
26-Nov-19	Downwind	7.5	16.4	No
27-Nov-19	Upwind	Note 1	Note 1	Note 1
27-Nov-19	Downwind	Note 1	Note 1	Note 1
28-Nov-19	Upwind	Note 2	Note 2	Note 2
28-Nov-19	Downwind	Note 2	Note 2	Note 2
29-Nov-19	Upwind	Note 2	Note 2	Note 2
29-Nov-19	Downwind	Note 2	Note 2	Note 2
2-Dec-19	Upwind	Note 3	Note 3	Note 3
2-Dec-19	Downwind	Note 3	Note 3	Note 3
3-Dec-19	Upwind	Note 3	Note 3	Note 3
3-Dec-19	Downwind	Note 3	Note 3	Note 3
4-Dec-19	Upwind	Note 3	Note 3	Note 3
4-Dec-19	Downwind	Note 3	Note 3	Note 3
5-Dec-19	Upwind	Note 3	Note 3	Note 3
5-Dec-19	Downwind	Note 3	Note 3	Note 3
6-Dec-19	Upwind	Note 3	Note 3	Note 3
6-Dec-19	Downwind	Note 3	Note 3	Note 3
9-Dec-19	Upwind	4.3	3.960	No
9-Dec-19	Downwind	4.1	<0.06	No
10-Dec-19	Upwind	9.4	4.3	No
10-Dec-19	Downwind	9.4	7.5	No
11-Dec-19	Upwind	Note 3	Note 3	Note 3
11-Dec-19	Downwind	Note 3	Note 3	Note 3
12-Dec-19	Upwind	Note 3	Note 3	Note 3
12-Dec-19	Downwind	Note 3	Note 3	Note 3
13-Dec-19	Upwind	Note 3	Note 3	Note 3
13-Dec-19	Downwind	Note 3	Note 3	Note 3
16-Dec-19	Upwind	Note 3	Note 3	Note 3
16-Dec-19	Downwind	Note 3	Note 3	Note 3
17-Dec-19	Upwind	Note 3	Note 3	Note 3
17-Dec-19	Downwind	Note 3	Note 3	Note 3

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 (µg/m^3)	PM10 Exceedance? (Yes/No)
18-Dec-19	Upwind	Note 3	Note 3	Note 3
18-Dec-19	Downwind	Note 3	Note 3	Note 3
19-Dec-19	Upwind	Note 3	Note 3	Note 3
19-Dec-19	Downwind	Note 3	Note 3	Note 3
20-Dec-19	Upwind	Note 3	Note 3	Note 3
20-Dec-19	Downwind	Note 3	Note 3	Note 3
23-Dec-19	Upwind	7.5	<0.06	No
23-Dec-19	Downwind	7.5	<0.06	No
24-Dec-19	Upwind	6.8	<0.06	No
24-Dec-19	Downwind	6.9	<0.06	No
25-Dec-19	Upwind	Note 2	Note 2	Note 2
25-Dec-19	Downwind	Note 2	Note 2	Note 2
26-Dec-19	Upwind	7.433	<0.06	No
26-Dec-19	Downwind	7.5	<0.06	No
27-Dec-19	Upwind	7.517	<0.06	No
27-Dec-19	Downwind	7.667	<0.06	No
30-Dec-19	Upwind	7.317	<0.06	No
30-Dec-19	Downwind	7.3	<0.06	No
31-Dec-19	Upwind	7.067	<0.06	No
31-Dec-19	Downwind	7.1	10.8	No
1-Jan-20	Upwind	Note 3	Note 3	Note 3
1-Jan-20	Downwind	Note 3	Note 3	Note 3
2-Jan-20	Upwind	Note 3	Note 3	Note 3
2-Jan-20	Downwind	Note 3	Note 3	Note 3
3-Jan-20	Upwind	7.6	<0.06	No
3-Jan-20	Downwind	7.6	18.5	No
6-Jan-20	Upwind	7.6	<0.06	No
6-Jan-20	Downwind	7.6	9.2	No
7-Jan-20	Upwind	7.9	10.4	No
7-Jan-20	Downwind	8.0	7.8	No
8-Jan-20	Upwind	Note 3	Note 3	Note 3
8-Jan-20	Downwind	Note 3	Note 3	Note 3
9-Jan-20	Upwind	Note 3	Note 3	Note 3
9-Jan-20	Downwind	Note 3	Note 3	Note 3
10-Jan-20	Upwind	Note 3	Note 3	Note 3
10-Jan-20	Downwind	Note 3	Note 3	Note 3
13-Jan-20	Upwind	Note 3	Note 3	Note 3
13-Jan-20	Downwind	Note 3	Note 3	Note 3
14-Jan-20	Upwind	Note 3	Note 3	Note 3
14-Jan-20	Downwind	Note 3	Note 3	Note 3

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 ($\mu g/m^3$)	PM10 Exceedance? (Yes/No)
15-Jan-20	Upwind	Note 3	Note 3	Note 3
15-Jan-20	Downwind	Note 3	Note 3	Note 3
16-Jan-20	Upwind	Note 3	Note 3	Note 3
16-Jan-20	Downwind	Note 3	Note 3	Note 3
17-Jan-20	Upwind	Note 3	Note 3	Note 3
17-Jan-20	Downwind	Note 3	Note 3	Note 3
20-Jan-20	Upwind	Note 3	Note 3	Note 3
20-Jan-20	Downwind	Note 3	Note 3	Note 3
21-Jan-20	Upwind	Note 3	Note 3	Note 3
21-Jan-20	Downwind	Note 3	Note 3	Note 3
22-Jan-20	Upwind	Note 3	Note 3	Note 3
22-Jan-20	Downwind	Note 3	Note 3	Note 3
23-Jan-20	Upwind	Note 3	Note 3	Note 3
23-Jan-20	Downwind	Note 3	Note 3	Note 3
24-Jan-20	Upwind	Note 3	Note 3	Note 3
24-Jan-20	Downwind	Note 3	Note 3	Note 3
27-Jan-20	Upwind	Note 3	Note 3	Note 3
27-Jan-20	Downwind	Note 3	Note 3	Note 3
28-Jan-20	Upwind	Note 3	Note 3	Note 3
28-Jan-20	Downwind	Note 3	Note 3	Note 3
29-Jan-20	Upwind	Note 3	Note 3	Note 3
29-Jan-20	Downwind	Note 3	Note 3	Note 3
30-Jan-20	Upwind	Note 3	Note 3	Note 3
30-Jan-20	Downwind	Note 3	Note 3	Note 3
31-Jan-20	Upwind	Note 3	Note 3	Note 3
31-Jan-20	Downwind	Note 3	Note 3	Note 3
3-Feb-20	Upwind	Note 3	Note 3	Note 3
3-Feb-20	Downwind	Note 3	Note 3	Note 3
4-Feb-20	Upwind	Note 3	Note 3	Note 3
4-Feb-20	Downwind	Note 3	Note 3	Note 3
5-Feb-20	Upwind	Note 3	Note 3	Note 3
5-Feb-20	Downwind	Note 3	Note 3	Note 3
6-Feb-20	Upwind	Note 3	Note 3	Note 3
6-Feb-20	Downwind	Note 3	Note 3	Note 3
7-Feb-20	Upwind	Note 3	Note 3	Note 3
7-Feb-20	Downwind	Note 3	Note 3	Note 3
10-Feb-20	Upwind	Note 3	Note 3	Note 3
10-Feb-20	Downwind	Note 3	Note 3	Note 3
11-Feb-20	Upwind	7.2	<0.06	No
11-Feb-20	Downwind	7.2	21.7	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 (µg/m^3)	PM10 Exceedance? (Yes/No)
12-Feb-20	Upwind	5.5	<0.06	No
12-Feb-20	Downwind	5.6	<0.06	No
13-Feb-20	Upwind	5.3	25.0	No
13-Feb-20	Downwind	5.1	<0.06	No
14-Feb-20	Upwind	7.8	<0.06	No
14-Feb-20	Downwind	7.7	<0.06	No
17-Feb-20	Upwind	7.7	<0.06	No
17-Feb-20	Downwind	7.6	<0.06	No
18-Feb-20	Upwind	7.0	<0.06	No
18-Feb-20	Downwind	7.1	14.0	No
19-Feb-20	Upwind	3.8	<0.06	No
19-Feb-20	Downwind	3.9	<0.06	No
20-Feb-20	Upwind	Note 3	Note 3	Note 3
20-Feb-20	Downwind	Note 3	Note 3	Note 3
21-Feb-20	Upwind	Note 3	Note 3	Note 3
21-Feb-20	Downwind	Note 3	Note 3	Note 3
24-Feb-20	Upwind	Note 3	Note 3	Note 3
24-Feb-20	Downwind	Note 3	Note 3	Note 3
25-Feb-20	Upwind	Note 3	Note 3	Note 3
25-Feb-20	Downwind	Note 3	Note 3	Note 3
26-Feb-20	Upwind	Note 3	Note 3	Note 3
26-Feb-20	Downwind	Note 3	Note 3	Note 3
27-Feb-20	Upwind	Note 3	Note 3	Note 3
27-Feb-20	Downwind	Note 3	Note 3	Note 3
28-Feb-20	Upwind	Note 3	Note 3	Note 3
28-Feb-20	Downwind	Note 3	Note 3	Note 3
2-Mar-20	Upwind	Note 3	Note 3	Note 3
2-Mar-20	Downwind	Note 3	Note 3	Note 3
3-Mar-20	Upwind	Note 3	Note 3	Note 3
3-Mar-20	Downwind	Note 3	Note 3	Note 3
4-Mar-20	Upwind	Note 3	Note 3	Note 3
4-Mar-20	Downwind	Note 3	Note 3	Note 3
5-Mar-20	Upwind	Note 3	Note 3	Note 3
5-Mar-20	Downwind	Note 3	Note 3	Note 3
6-Mar-20	Upwind	Note 3	Note 3	Note 3
6-Mar-20	Downwind	Note 3	Note 3	Note 3
9-Mar-20	Upwind	Note 3	Note 3	Note 3
9-Mar-20	Downwind	Note 3	Note 3	Note 3
10-Mar-20	Upwind	Note 3	Note 3	Note 3
10-Mar-20	Downwind	Note 3	Note 3	Note 3

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 ($\mu g/m^3$)	PM10 Exceedance? (Yes/No)
11-Mar-20	Upwind	Note 3	Note 3	Note 3
11-Mar-20	Downwind	Note 3	Note 3	Note 3
12-Mar-20	Upwind	Note 3	Note 3	Note 3
12-Mar-20	Downwind	Note 3	Note 3	Note 3
13-Mar-20	Upwind	Note 3	Note 3	Note 3
13-Mar-20	Downwind	Note 3	Note 3	Note 3
16-Mar-20	Upwind	Note 3	Note 3	Note 3
16-Mar-20	Downwind	Note 3	Note 3	Note 3
17-Mar-20	Upwind	Note 3	Note 3	Note 3
17-Mar-20	Downwind	Note 3	Note 3	Note 3
18-Mar-20	Upwind	Note 3	Note 3	Note 3
18-Mar-20	Downwind	Note 3	Note 3	Note 3
19-Mar-20	Upwind	Note 3	Note 3	Note 3
19-Mar-20	Downwind	Note 3	Note 3	Note 3
20-Mar-20	Upwind	Note 3	Note 3	Note 3
20-Mar-20	Downwind	Note 3	Note 3	Note 3
23-Mar-20	Upwind	Note 3	Note 3	Note 3
23-Mar-20	Downwind	Note 3	Note 3	Note 3
24-Mar-20	Upwind	Note 3	Note 3	Note 3
24-Mar-20	Downwind	Note 3	Note 3	Note 3
25-Mar-20	Upwind	Note 3	Note 3	Note 3
25-Mar-20	Downwind	Note 3	Note 3	Note 3
26-Mar-20	Upwind	Note 3	Note 3	Note 3
26-Mar-20	Downwind	Note 3	Note 3	Note 3
27-Mar-20	Upwind	Note 3	Note 3	Note 3
27-Mar-20	Downwind	Note 3	Note 3	Note 3
30-Mar-20	Upwind	Note 3	Note 3	Note 3
30-Mar-20	Downwind	Note 3	Note 3	Note 3
31-Mar-20	Upwind	Note 3	Note 3	Note 3
31-Mar-20	Downwind	Note 3	Note 3	Note 3
1-Apr-20	Upwind	Note 3	Note 3	Note 3
1-Apr-20	Downwind	Note 3	Note 3	Note 3
2-Apr-20	Upwind	Note 3	Note 3	Note 3
2-Apr-20	Downwind	Note 3	Note 3	Note 3
3-Apr-20	Upwind	Note 3	Note 3	Note 3
3-Apr-20	Downwind	Note 3	Note 3	Note 3
6-Apr-20	Upwind	Note 3	Note 3	Note 3
6-Apr-20	Downwind	Note 3	Note 3	Note 3
7-Apr-20	Upwind	Note 3	Note 3	Note 3
7-Apr-20	Downwind	Note 3	Note 3	Note 3

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 (µg/m^3)	PM10 Exceedance? (Yes/No)
8-Apr-20	Upwind	Note 3	Note 3	Note 3
8-Apr-20	Downwind	Note 3	Note 3	Note 3
9-Apr-20	Upwind	Note 3	Note 3	Note 3
9-Apr-20	Downwind	Note 3	Note 3	Note 3
10-Apr-20	Upwind	Note 3	Note 3	Note 3
10-Apr-20	Downwind	Note 3	Note 3	Note 3
13-Apr-20	Upwind	Note 3	Note 3	Note 3
13-Apr-20	Downwind	Note 3	Note 3	Note 3
14-Apr-20	Upwind	Note 3	Note 3	Note 3
14-Apr-20	Downwind	Note 3	Note 3	Note 3
15-Apr-20	Upwind	Note 3	Note 3	Note 3
15-Apr-20	Downwind	Note 3	Note 3	Note 3
16-Apr-20	Upwind	Note 3	Note 3	Note 3
16-Apr-20	Downwind	Note 3	Note 3	Note 3
17-Apr-20	Upwind	Note 3	Note 3	Note 3
17-Apr-20	Downwind	Note 3	Note 3	Note 3
20-Apr-20	Upwind	Note 3	Note 3	Note 3
20-Apr-20	Downwind	Note 3	Note 3	Note 3
21-Apr-20	Upwind	Note 3	Note 3	Note 3
21-Apr-20	Downwind	Note 3	Note 3	Note 3
22-Apr-20	Upwind	Note 3	Note 3	Note 3
22-Apr-20	Downwind	Note 3	Note 3	Note 3
23-Apr-20	Upwind	Note 3	Note 3	Note 3
23-Apr-20	Downwind	Note 3	Note 3	Note 3
24-Apr-20	Upwind	Note 3	Note 3	Note 3
24-Apr-20	Downwind	Note 3	Note 3	Note 3
27-Apr-20	Upwind	Note 3	Note 3	Note 3
27-Apr-20	Downwind	Note 3	Note 3	Note 3
28-Apr-20	Upwind	Note 3	Note 3	Note 3
28-Apr-20	Downwind	Note 3	Note 3	Note 3
29-Apr-20	Upwind	9.5	<0.06	No
29-Apr-20	Downwind	9.4	13.9	No
30-Apr-20	Upwind	9.5	5.6	No
30-Apr-20	Downwind	9.6	12.1	No
1-May-20	Upwind	Note 3	Note 3	Note 3
1-May-20	Downwind	Note 3	Note 3	Note 3
4-May-20	Upwind	9.6	15.4	No
4-May-20	Downwind	9.6	27.1	No
5-May-20	Upwind	9.5	10.5	No
5-May-20	Downwind	9.4	26.8	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 ($\mu g/m^3$)	PM10 Exceedance? (Yes/No)
6-May-20	Upwind	9.6	11.1	No
6-May-20	Downwind	9.5	33.7	No
7-May-20	Upwind	9.4	22.6	No
7-May-20	Downwind	9.5	43.7	No
8-May-20	Upwind	Note 3	Note 3	Note 3
8-May-20	Downwind	Note 3	Note 3	Note 3
11-May-20	Upwind	9.7	9.4	No
11-May-20	Downwind	9.6	17.4	No
12-May-20	Upwind	9.6	6.8	No
12-May-20	Downwind	9.5	13.1	No
13-May-20	Upwind	9.6	7.7	No
13-May-20	Downwind	9.5	10.8	No
14-May-20	Upwind	9.5	5.9	No
14-May-20	Downwind	9.5	10.4	No
15-May-20	Upwind	9.4	10.6	No
15-May-20	Downwind	9.4	13.7	No
18-May-20	Upwind	9.7	5.9	No
18-May-20	Downwind	9.7	14.9	No
19-May-20	Upwind	9.6	11.0	No
19-May-20	Downwind	9.6	6.5	No
20-May-20	Upwind	9.6	11.7	No
20-May-20	Downwind	9.5	19.0	No
21-May-20	Upwind	9.6	14.8	No
21-May-20	Downwind	9.7	22.0	No
22-May-20	Upwind	9.5	4.8	No
22-May-20	Downwind	9.5	11.1	No
25-May-20	Upwind	Note 2	Note 2	Note 2
25-May-20	Downwind	Note 2	Note 2	Note 2
26-May-20	Upwind	9.7	20.9	No
26-May-20	Downwind	9.6	40.1	No
27-May-20	Upwind	9.6	28.8	No
27-May-20	Downwind	9.5	40.5	No
28-May-20	Upwind	9.6	14.1	No
28-May-20	Downwind	9.5	22.5	No
29-May-20	Upwind	9.5	15.5	No
29-May-20	Downwind	9.5	15.3	No
1-Jun-20	Upwind	7.5	24.4	No
1-Jun-20	Downwind	7.4	30.8	No
2-Jun-20	Upwind	7.6	32.9	No
2-Jun-20	Downwind	7.6	45.9	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 ($\mu g/m^3$)	PM10 Exceedance? (Yes/No)
3-Jun-20	Upwind	7.6	49.1	No
3-Jun-20	Downwind	7.6	75.2	No
4-Jun-20	Upwind	8.6	49.9	No
4-Jun-20	Downwind	7.6	86.7	No
5-Jun-20	Upwind	7.5	31.5	No
5-Jun-20	Downwind	7.5	32.3	No
8-Jun-20	Upwind	9.8	20.0	No
8-Jun-20	Downwind	9.7	25.7	No
9-Jun-20	Upwind	9.7	28.3	No
9-Jun-20	Downwind	9.8	35.7	No
10-Jun-20	Upwind	9.7	26.0	No
10-Jun-20	Downwind	9.8	35.0	No
11-Jun-20	Upwind	9.8	24.8	No
11-Jun-20	Downwind	9.8	32.7	No
12-Jun-20	Upwind	9.6	20.9	No
12-Jun-20	Downwind	9.8	22.0	No
13-Jun-20	Upwind	9.5	20.8	No
13-Jun-20	Downwind	9.6	17.3	No
15-Jun-20	Upwind	9.7	27.8	No
15-Jun-20	Downwind	9.7	31.7	No
16-Jun-20	Upwind	9.8	27.4	No
16-Jun-20	Downwind	9.8	31.7	No
17-Jun-20	Upwind	9.6	33.4	No
17-Jun-20	Downwind	9.7	37.7	No
18-Jun-20	Upwind	9.7	50.3	No
18-Jun-20	Downwind	9.7	68.5	No
19-Jun-20	Upwind	9.8	32.3	No
19-Jun-20	Downwind	9.8	40.6	No
20-Jun-20	Upwind	9.8	23.8	No
20-Jun-20	Downwind	9.8	24.7	No
22-Jun-20	Upwind	9.6	34.5	No
22-Jun-20	Downwind	9.7	43.3	No
23-Jun-20	Upwind	9.7	27.3	No
23-Jun-20	Downwind	9.7	33.7	No
24-Jun-20	Upwind	9.7	28.8	No
24-Jun-20	Downwind	9.7	35.6	No
25-Jun-20	Upwind	9.7	27.3	No
25-Jun-20	Downwind	9.7	30.4	No
26-Jun-20	Upwind	9.6	32.8	No
26-Jun-20	Downwind	9.7	36.8	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 ($\mu g/m^3$)	PM10 Exceedance? (Yes/No)
27-Jun-20	Upwind	9.7	21.2	No
27-Jun-20	Downwind	9.5	24.0	No
29-Jun-20	Upwind	9.5	41.9	No
29-Jun-20	Downwind	9.6	49.6	No
30-Jun-20	Upwind	9.1	42.9	No
30-Jun-20	Downwind	9.0	100	No
1-Jul-20	Upwind	9.2	55.7	No
1-Jul-20	Downwind	9.3	40.7	No
2-Jul-20	Upwind	9.6	25.9	No
2-Jul-20	Downwind	9.3	26.8	No
6-Jul-20	Upwind	9.1	31.4	No
6-Jul-20	Downwind	9.1	43.1	No
7-Jul-20	Upwind	9.7	29.0	No
7-Jul-20	Downwind	9.7	32.0	No
8-Jul-20	Upwind	9.8	33.7	No
8-Jul-20	Downwind	9.5	32.5	No
9-Jul-20	Upwind	9.4	29.8	No
9-Jul-20	Downwind	9.4	42.5	No
10-Jul-20	Upwind	9.2	10.5	No
10-Jul-20	Downwind	9.1	23.2	No
13-Jul-20	Upwind	6.3	54.3	No
13-Jul-20	Downwind	8.4	168	No
14-Jul-20	Upwind	9.1	62.4	No
14-Jul-20	Downwind	8.8	44.8	No
15-Jul-20	Upwind	9.3	40.2	No
15-Jul-20	Downwind	8.8	39.4	No
16-Jul-20	Upwind	9.1	35.5	No
16-Jul-20	Downwind	8.9	33.0	No
17-Jul-20	Upwind	9.6	28.6	No
17-Jul-20	Downwind	9.2	26.2	No
20-Jul-20	Upwind	9.3	25.4	No
20-Jul-20	Downwind	8.9	23.6	No
21-Jul-20	Upwind	9.5	23.7	No
21-Jul-20	Downwind	9.1	25.9	No
22-Jul-20	Upwind	8.6	13.2	No
22-Jul-20	Downwind	9.1	26.1	No
23-Jul-20	Upwind	9.7	14.4	No
23-Jul-20	Downwind	9.4	30.5	No
24-Jul-20	Upwind	9.8	13.7	No
24-Jul-20	Downwind	9.3	37.5	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 (µg/m^3)	PM10 Exceedance? (Yes/No)
27-Jul-20	Upwind	9.8	17.3	No
27-Jul-20	Downwind	9.3	31.3	No
28-Jul-20	Upwind	9.7	16.1	No
28-Jul-20	Downwind	9.4	27.5	No
29-Jul-20	Upwind	9.7	15.9	No
29-Jul-20	Downwind	9.4	26.1	No
30-Jul-20	Upwind	9.8	15.0	No
30-Jul-20	Downwind	9.4	23.7	No
31-Jul-20	Upwind	9.7	15.0	No
31-Jul-20	Downwind	9.3	26.4	No
3-Aug-20	Upwind	9.7	127	No
3-Aug-20	Downwind	9.3	19.9	No
4-Aug-20	Upwind	9.5	34.4	No
4-Aug-20	Downwind	9.2	39.4	No
5-Aug-20	Upwind	9.7	39.9	No
5-Aug-20	Downwind	9.3	41.8	No
6-Aug-20	Upwind	9.7	32.5	No
6-Aug-20	Downwind	9.3	42.3	No
7-Aug-20	Upwind	9.6	49.1	No
7-Aug-20	Downwind	9.3	65.2	No
10-Aug-20	Upwind	8.8	127.0	No
10-Aug-20	Downwind	8.5	19.9	No
11-Aug-20	Upwind	9.8	34.4	No
11-Aug-20	Downwind	9.4	39.4	No
12-Aug-20	Upwind	9.8	39.9	No
12-Aug-20	Downwind	9.4	41.8	No
13-Aug-20	Upwind	9.8	32.5	No
13-Aug-20	Downwind	9.5	42.3	No
14-Aug-20	Upwind	9.8	49.1	No
14-Aug-20	Downwind	9.4	65.2	No
17-Aug-20	Upwind	4.9	28.3	No
17-Aug-20	Downwind	4.7	33.0	No
18-Aug-20	Upwind	8.2	14.6	No
18-Aug-20	Downwind	7.8	28.9	No
19-Aug-20	Upwind	10.7	20.7	No
19-Aug-20	Downwind	10.3	66.4	No
20-Aug-20	Upwind	10.7	13.1	No
20-Aug-20	Downwind	10.3	15.9	No
21-Aug-20	Upwind	10.7	20.2	No
21-Aug-20	Downwind	10.4	46.3	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 ($\mu g/m^3$)	PM10 Exceedance? (Yes/No)
24-Aug-20	Upwind	7.4	37.3	No
24-Aug-20	Downwind	7.5	64.6	No
25-Aug-20	Upwind	7.6	32.1	No
25-Aug-20	Downwind	8.3	58.4	No
26-Aug-20	Upwind	9.7	16.5	No
26-Aug-20	Downwind	9.4	19.5	No
27-Aug-20	Upwind	7.6	27.9	No
27-Aug-20	Downwind	7.2	24.8	No
28-Aug-20	Upwind	9.8	67.4	No
28-Aug-20	Downwind	9.4	98.1	No
31-Aug-20	Upwind	8.8	44.2	No
31-Aug-20	Downwind	8.4	62.5	No
1-Sep-20	Upwind	7.9	46.7	No
1-Sep-20	Downwind	8.4	54.1	No
2-Sep-20	Upwind	8.8	19.3	No
2-Sep-20	Downwind	8.4	28.2	No
3-Sep-20	Upwind	8.4	21.6	No
3-Sep-20	Downwind	8.0	37.0	No
4-Sep-20	Upwind	10.1	20.9	No
4-Sep-20	Downwind	9.8	28.0	No
7-Sep-20	Upwind	Note 2	Note 2	Note 2
7-Sep-20	Downwind	Note 2	Note 2	Note 2
8-Sep-20	Upwind	9.8	49.5	No
8-Sep-20	Downwind	9.5	94.5	No
9-Sep-20	Upwind	5.4	58.9	No
9-Sep-20	Downwind	5.1	95.2	No
10-Sep-20	Upwind	7.5	20.5	No
10-Sep-20	Downwind	7.2	157	No
11-Sep-20	Upwind	8.2	141	No
11-Sep-20	Downwind	7.8	237	No
14-Sep-20	Upwind	7.1	72.9	No
14-Sep-20	Downwind	7.1	137	No
15-Sep-20	Upwind	6.8	49.3	No
15-Sep-20	Downwind	7.0	38.0	No
16-Sep-20	Upwind	7.5	13.7	No
16-Sep-20	Downwind	7.5	19.2	No
17-Sep-20	Upwind	7.4	9.57	No
17-Sep-20	Downwind	7.1	21.7	No
18-Sep-20	Upwind	9.7	9.56	No
18-Sep-20	Downwind	9.4	15.1	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 (µg/m^3)	PM10 Exceedance? (Yes/No)
21-Sep-20	Upwind	9.7	23.2	No
21-Sep-20	Downwind	9.3	42.2	No
22-Sep-20	Upwind	9.6	21.0	No
22-Sep-20	Downwind	9.2	10.2	No
23-Sep-20	Upwind	9.7	11.7	No
23-Sep-20	Downwind	9.4	19.6	No
24-Sep-20	Upwind	9.4	53.5	No
24-Sep-20	Downwind	9.1	50.0	No
25-Sep-20	Upwind	9.6	<4.59	No
25-Sep-20	Downwind	9.3	36.1	No
28-Sep-20	Upwind	7.6	24.1	No
28-Sep-20	Downwind	7.6	52.6	No
29-Sep-20	Upwind	7.6	6.40	No
29-Sep-20	Downwind	7.2	12.3	No
30-Sep-20	Upwind	7.7	16.9	No
30-Sep-20	Downwind	7.4	12.4	No
1-Oct-20	Upwind	7.4	40.1	No
1-Oct-20	Downwind	7.1	69.2	No
2-Oct-20	Upwind	7.5	58.3	No
2-Oct-20	Downwind	7.5	87.3	No
5-Oct-20	Upwind	7.5	17.1	No
5-Oct-20	Downwind	7.3	21.5	No
6-Oct-20	Upwind	7.4	13.6	No
6-Oct-20	Downwind	7.2	20.5	No
7-Oct-20	Upwind	7.0	32.9	No
7-Oct-20	Downwind	6.5	52.6	No
8-Oct-20	Upwind	7.1	24.6	No
8-Oct-20	Downwind	7.0	52.8	No
9-Oct-20	Upwind	7.7	<5.73	No
9-Oct-20	Downwind	7.5	<5.88	No
12-Oct-20	Upwind	7.5	12.8	No
12-Oct-20	Downwind	7.5	25.1	No
13-Oct-20	Upwind	7.6	21.2	No
13-Oct-20	Downwind	7.6	<5.83	No
14-Oct-20	Upwind	7.5	15.5	No
14-Oct-20	Downwind	7.5	65.8	No
15-Oct-20	Upwind	7.6	42.2	No
15-Oct-20	Downwind	7.6	193	No
16-Oct-20	Upwind	7.8	43.4	No
16-Oct-20	Downwind	7.5	37.6	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 ($\mu g/m^3$)	PM10 Exceedance? (Yes/No)
19-Oct-20	Upwind	7.8	21.7	No
19-Oct-20	Downwind	7.5	27.0	No
20-Oct-20	Upwind	7.7	34.4	No
20-Oct-20	Downwind	7.4	25.4	No
21-Oct-20	Upwind	19.1	39.1	No
21-Oct-20	Downwind	19.1	40.4	No
22-Oct-20	Upwind	18.0	27.0	No
22-Oct-20	Downwind	18.0	33.5	No
23-Oct-20	Upwind	17.4	30.6	No
23-Oct-20	Downwind	17.4	35.4	No
24-Oct-20	Upwind	4.2	37.4	No
24-Oct-20	Downwind	5.2	19.6	No
26-Oct-20	Upwind	7.6	81.7	No
26-Oct-20	Downwind	7.2	47.3	No
27-Oct-20	Upwind	7.7	67.0	No
27-Oct-20	Downwind	7.3	20.5	No
28-Oct-20	Upwind	7.7	127.0	No
28-Oct-20	Downwind	7.4	76.6	No
29-Oct-20	Upwind	12.5	71.2	No
29-Oct-20	Downwind	12.3	47.4	No
30-Oct-20	Upwind	17.3	24.9	No
30-Oct-20	Downwind	17.2	19.4	No
31-Oct-20	Upwind	7.7	37.6	No
31-Oct-20	Downwind	7.7	25.5	No
2-Nov-20	Upwind	15.5	67.2	No
2-Nov-20	Downwind	15.4	32.4	No
3-Nov-20	Upwind	17.3	13.1	No
3-Nov-20	Downwind	17.4	5.67	No
4-Nov-20	Upwind	18.3	21.8	No
4-Nov-20	Downwind	18.2	11.3	No
5-Nov-20	Upwind	19.3	22.1	No
5-Nov-20	Downwind	19.3	21.6	No
6-Nov-20	Upwind	17.3	33.1	No
6-Nov-20	Downwind	20.2	21.0	No
7-Nov-20	Upwind	21.2	20.4	No
7-Nov-20	Downwind	21.2	25.9	No
9-Nov-20	Upwind	12.3	17.6	No
9-Nov-20	Downwind	12.3	10.4	No
10-Nov-20	Upwind	12.2	29.9	No
10-Nov-20	Downwind	12.2	20.3	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 ($\mu g/m^3$)	PM10 Exceedance? (Yes/No)
11-Nov-20	Upwind	12.4	26.0	No
11-Nov-20	Downwind	12.4	20.7	No
12-Nov-20	Upwind	12.4	31.5	No
12-Nov-20	Downwind	12.3	29.5	No
13-Nov-20	Upwind	6.3	13.8	No
13-Nov-20	Downwind	5.9	10.9	No
14-Nov-20	Upwind	12.5	12.8	No
14-Nov-20	Downwind	12.5	14.2	No
16-Nov-20	Upwind	7.5	54.0	No
16-Nov-20	Downwind	7.1	71.4	No
17-Nov-20	Upwind	2.6	137	No
17-Nov-20	Downwind	3.4	70.6	No
18-Nov-20	Upwind	16.5	15.4	No
18-Nov-20	Downwind	16.7	18.6	No
19-Nov-20	Upwind	18.9	13.2	No
19-Nov-20	Downwind	18.8	37.3	No
20-Nov-20	Upwind	18.8	17.9	No
20-Nov-20	Downwind	18.7	38.6	No
21-Nov-20	Upwind	18.2	16.4	No
21-Nov-20	Downwind	18.1	35.9	No
23-Nov-20	Upwind	7.3	7.00	No
23-Nov-20	Downwind	7.3	8.83	No
24-Nov-20	Upwind	6.8	18.3	No
24-Nov-20	Downwind	6.8	13.4	No
25-Nov-20	Upwind	7.5	8.08	No
25-Nov-20	Downwind	7.4	7.99	No
26-Nov-20	Note 2	Note 2	Note 2	Note 2
26-Nov-20	Note 2	Note 2	Note 2	Note 2
27-Nov-20	Note 2	Note 2	Note 2	Note 2
27-Nov-20	Note 2	Note 2	Note 2	Note 2
30-Nov-20	Upwind	14.4	39.2	No
30-Nov-20	Downwind	14.3	24.3	No
1-Dec-20	Upwind	15.8	35.4	No
1-Dec-20	Downwind	15.8	19.5	No
2-Dec-20	Upwind	15.9	65.8	No
2-Dec-20	Downwind	15.8	28.2	No
3-Dec-20	Upwind	16.6	54.0	No
3-Dec-20	Downwind	16.6	105	No
4-Dec-20	Upwind	16.8	80.1	No
4-Dec-20	Downwind	16.5	61.8	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 (µg/m^3)	PM10 Exceedance? (Yes/No)
5-Dec-20	Upwind	8.1	58.7	No
5-Dec-20	Downwind	7.8	34.3	No
7-Dec-20	Upwind	7.6	43.1	No
7-Dec-20	Downwind	7.6	21.8	No
8-Dec-20	Upwind	7.4	57.5	No
8-Dec-20	Downwind	7.3	19.9	No
9-Dec-20	Upwind	7.4	123	No
9-Dec-20	Downwind	7.4	53.8	No
10-Dec-20	Upwind	7.4	61.1	No
10-Dec-20	Downwind	7.4	31.3	No
11-Dec-20	Upwind	7.3	14.8	No
11-Dec-20	Downwind	7.2	58.7	No
14-Dec-20	Upwind	7.4	5.98	No
14-Dec-20	Downwind	7.3	6.03	No
15-Dec-20	Upwind	6.9	10.0	No
15-Dec-20	Downwind	6.8	6.51	No
16-Dec-20	Upwind	7.3	22.9	No
16-Dec-20	Downwind	7.1	13.4	No
17-Dec-20	Note 3	Note 3	Note 3	Note 3
17-Dec-20	Note 3	Note 3	Note 3	Note 3
18-Dec-20	Upwind	7.8	5.63	No
18-Dec-20	Downwind	7.5	7.24	No
21-Dec-20	Upwind	7.4	20.7	No
21-Dec-20	Downwind	6.4	11.8	No
22-Dec-20	Upwind	7.3	6.03	No
22-Dec-20	Downwind	7.2	6.13	No
23-Dec-20	Note 3	Note 3	Note 3	Note 3
23-Dec-20	Note 3	Note 3	Note 3	Note 3
24-Dec-20	Note 2	Note 2	Note 2	Note 3
24-Dec-20	Note 2	Note 2	Note 2	Note 3
25-Dec-20	Note 2	Note 2	Note 2	Note 3
25-Dec-20	Note 2	Note 2	Note 2	Note 3
28-Dec-20	Note 3	Note 3	Note 3	Note 3
28-Dec-20	Note 3	Note 3	Note 3	Note 3
29-Dec-20	Note 3	Note 3	Note 3	Note 3
29-Dec-20	Note 3	Note 3	Note 3	Note 3
30-Dec-20	Note 3	Note 3	Note 3	Note 3
30-Dec-20	Note 3	Note 3	Note 3	Note 3
31-Dec-20	Note 3	Note 3	Note 3	Note 3
31-Dec-20	Note 3	Note 3	Note 3	Note 3

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 ($\mu g/m^3$)	PM10 Exceedance? (Yes/No)
1-Jan-21	Note 2	Note 2	Note 2	Note 2
1-Jan-21	Note 2	Note 2	Note 2	Note 2

Notes:
Note 1: Sample not collected due to inclement conditions: Rain.
Note 2: Samples were not collected as project site was closed for holidays.
Note 3: Samples were not collected as no excavation was conducted.
Sample locations are shown on Figure 1.

The threshold criteria are as follows: Cal/OSHA PEL = 5,000 $\mu g/m^3$

The detection limit for PM10 is 0.06 $\mu g/m^3$ assuming a minimum sample volume of 1,600 m^3.

$\mu g/m^3$ - microgram per cubic meter
N/A - not applicable
PM10 - particulate matter smaller than 10 microns in diameter

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
20-Nov-19	Upwind	9.8	0.0030	No
20-Nov-19	Downwind	9.9	<0.002	No
21-Nov-19	Upwind	7.5	<0.003	No
21-Nov-19	Downwind	7.5	<0.003	No
22-Nov-19	Upwind	8.8	<0.003	No
22-Nov-19	Downwind	8.8	<0.003	No
25-Nov-19	Upwind	8.9	<0.003	No
25-Nov-19	Downwind	8.7	<0.003	No
26-Nov-19	Upwind	7.4	<0.003	No
26-Nov-19	Downwind	7.5	<0.003	No
27-Nov-19	Upwind	Note 1	Note 1	Note 1
27-Nov-19	Downwind	Note 1	Note 1	Note 1
28-Nov-19	Upwind	Note 2	Note 2	Note 2
28-Nov-19	Downwind	Note 2	Note 2	Note 2
29-Nov-19	Upwind	Note 2	Note 2	Note 2
29-Nov-19	Downwind	Note 2	Note 2	Note 2
2-Dec-19	Upwind	Note 3	Note 3	Note 3
2-Dec-19	Downwind	Note 3	Note 3	Note 3
3-Dec-19	Upwind	Note 3	Note 3	Note 3
3-Dec-19	Downwind	Note 3	Note 3	Note 3
4-Dec-19	Upwind	Note 3	Note 3	Note 3
4-Dec-19	Downwind	Note 3	Note 3	Note 3
5-Dec-19	Upwind	Note 3	Note 3	Note 3
5-Dec-19	Downwind	Note 3	Note 3	Note 3
6-Dec-19	Upwind	Note 3	Note 3	Note 3
6-Dec-19	Downwind	Note 3	Note 3	Note 3
9-Dec-19	Upwind	4.3	<0.005	No
9-Dec-19	Downwind	4.1	<0.006	No
10-Dec-19	Upwind	9.4	<0.002	No
10-Dec-19	Downwind	9.4	<0.002	No
11-Dec-19	Upwind	Note 3	Note 3	Note 3
11-Dec-19	Downwind	Note 3	Note 3	Note 3
12-Dec-19	Upwind	Note 3	Note 3	Note 3
12-Dec-19	Downwind	Note 3	Note 3	Note 3
13-Dec-19	Upwind	Note 3	Note 3	Note 3
13-Dec-19	Downwind	Note 3	Note 3	Note 3
16-Dec-19	Upwind	Note 3	Note 3	Note 3
16-Dec-19	Downwind	Note 3	Note 3	Note 3
17-Dec-19	Upwind	Note 3	Note 3	Note 3

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
17-Dec-19	Downwind	Note 3	Note 3	Note 3
18-Dec-19	Upwind	Note 3	Note 3	Note 3
18-Dec-19	Downwind	Note 3	Note 3	Note 3
19-Dec-19	Upwind	Note 3	Note 3	Note 3
19-Dec-19	Downwind	Note 3	Note 3	Note 3
20-Dec-19	Upwind	Note 3	Note 3	Note 3
20-Dec-19	Downwind	Note 3	Note 3	Note 3
23-Dec-19	Upwind	7.5	<0.003	No
23-Dec-19	Downwind	7.5	<0.003	No
24-Dec-19	Upwind	6.8	<0.003	No
24-Dec-19	Downwind	6.9	<0.003	No
25-Dec-19	Upwind	Note 2	Note 2	Note 2
25-Dec-19	Downwind	Note 2	Note 2	Note 2
26-Dec-19	Upwind	7.4	<0.003	No
26-Dec-19	Downwind	7.5	<0.003	No
27-Dec-19	Upwind	7.5	<0.003	No
27-Dec-19	Downwind	7.7	<0.003	No
30-Dec-19	Upwind	7.3	<0.003	No
30-Dec-19	Downwind	7.3	<0.003	No
31-Dec-19	Upwind	7.067	<0.003	No
31-Dec-19	Downwind	7.1	0.0	No
1-Jan-20	Upwind	Note 3	Note 3	Note 3
1-Jan-20	Downwind	Note 3	Note 3	Note 3
2-Jan-20	Upwind	Note 3	Note 3	Note 3
2-Jan-20	Downwind	Note 3	Note 3	Note 3
3-Jan-20	Upwind	7.6	<0.003	No
3-Jan-20	Downwind	7.6	<0.003	No
6-Jan-20	Upwind	7.6	<0.003	No
6-Jan-20	Downwind	7.6	<0.003	No
7-Jan-20	Upwind	7.9	<0.003	No
7-Jan-20	Downwind	8.0	<0.003	No
8-Jan-20	Upwind	Note 3	Note 3	Note 3
8-Jan-20	Downwind	Note 3	Note 3	Note 3
9-Jan-20	Upwind	Note 3	Note 3	Note 3
9-Jan-20	Downwind	Note 3	Note 3	Note 3
10-Jan-20	Upwind	Note 3	Note 3	Note 3
10-Jan-20	Downwind	Note 3	Note 3	Note 3
13-Jan-20	Upwind	Note 3	Note 3	Note 3
13-Jan-20	Downwind	Note 3	Note 3	Note 3

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
14-Jan-20	Upwind	Note 3	Note 3	Note 3
14-Jan-20	Downwind	Note 3	Note 3	Note 3
15-Jan-20	Upwind	Note 3	Note 3	Note 3
15-Jan-20	Downwind	Note 3	Note 3	Note 3
16-Jan-20	Upwind	Note 3	Note 3	Note 3
16-Jan-20	Downwind	Note 3	Note 3	Note 3
17-Jan-20	Upwind	Note 3	Note 3	Note 3
17-Jan-20	Downwind	Note 3	Note 3	Note 3
20-Jan-20	Upwind	Note 3	Note 3	Note 3
20-Jan-20	Downwind	Note 3	Note 3	Note 3
21-Jan-20	Upwind	Note 3	Note 3	Note 3
21-Jan-20	Downwind	Note 3	Note 3	Note 3
22-Jan-20	Upwind	Note 3	Note 3	Note 3
22-Jan-20	Downwind	Note 3	Note 3	Note 3
23-Jan-20	Upwind	Note 3	Note 3	Note 3
23-Jan-20	Downwind	Note 3	Note 3	Note 3
24-Jan-20	Upwind	Note 3	Note 3	Note 3
24-Jan-20	Downwind	Note 3	Note 3	Note 3
27-Jan-20	Upwind	Note 3	Note 3	Note 3
27-Jan-20	Downwind	Note 3	Note 3	Note 3
28-Jan-20	Upwind	Note 3	Note 3	Note 3
28-Jan-20	Downwind	Note 3	Note 3	Note 3
29-Jan-20	Upwind	Note 3	Note 3	Note 3
29-Jan-20	Downwind	Note 3	Note 3	Note 3
30-Jan-20	Upwind	Note 3	Note 3	Note 3
30-Jan-20	Downwind	Note 3	Note 3	Note 3
31-Jan-20	Upwind	Note 3	Note 3	Note 3
31-Jan-20	Downwind	Note 3	Note 3	Note 3
3-Feb-20	Upwind	Note 3	Note 3	Note 3
3-Feb-20	Downwind	Note 3	Note 3	Note 3
4-Feb-20	Upwind	Note 3	Note 3	Note 3
4-Feb-20	Downwind	Note 3	Note 3	Note 3
5-Feb-20	Upwind	Note 3	Note 3	Note 3
5-Feb-20	Downwind	Note 3	Note 3	Note 3
6-Feb-20	Upwind	Note 3	Note 3	Note 3
6-Feb-20	Downwind	Note 3	Note 3	Note 3
7-Feb-20	Upwind	Note 3	Note 3	Note 3
7-Feb-20	Downwind	Note 3	Note 3	Note 3
10-Feb-20	Upwind	Note 3	Note 3	Note 3

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
10-Feb-20	Downwind	Note 3	Note 3	Note 3
11-Feb-20	Upwind	7.2	<0.0031	No
11-Feb-20	Downwind	7.2	<0.0031	No
12-Feb-20	Upwind	5.5	<0.0041	No
12-Feb-20	Downwind	5.6	<0.0040	No
13-Feb-20	Upwind	5.3	<0.0043	No
13-Feb-20	Downwind	5.1	<0.0044	No
14-Feb-20	Upwind	7.8	<0.0029	No
14-Feb-20	Downwind	7.7	<0.0029	No
17-Feb-20	Upwind	7.7	<0.0029	No
17-Feb-20	Downwind	7.6	<0.0029	No
18-Feb-20	Upwind	7.0	<0.0032	No
18-Feb-20	Downwind	7.1	<0.0032	No
19-Feb-20	Upwind	3.8	<0.0059	No
19-Feb-20	Downwind	3.9	<0.0058	No
20-Feb-20	Upwind	Note 3	Note 3	Note 3
20-Feb-20	Downwind	Note 3	Note 3	Note 3
21-Feb-20	Upwind	Note 3	Note 3	Note 3
21-Feb-20	Downwind	Note 3	Note 3	Note 3
24-Feb-20	Upwind	Note 3	Note 3	Note 3
24-Feb-20	Downwind	Note 3	Note 3	Note 3
25-Feb-20	Upwind	Note 3	Note 3	Note 3
25-Feb-20	Downwind	Note 3	Note 3	Note 3
26-Feb-20	Upwind	Note 3	Note 3	Note 3
26-Feb-20	Downwind	Note 3	Note 3	Note 3
27-Feb-20	Upwind	Note 3	Note 3	Note 3
27-Feb-20	Downwind	Note 3	Note 3	Note 3
28-Feb-20	Upwind	Note 3	Note 3	Note 3
28-Feb-20	Downwind	Note 3	Note 3	Note 3
2-Mar-20	Upwind	Note 3	Note 3	Note 3
2-Mar-20	Downwind	Note 3	Note 3	Note 3
3-Mar-20	Upwind	Note 3	Note 3	Note 3
3-Mar-20	Downwind	Note 3	Note 3	Note 3
4-Mar-20	Upwind	Note 3	Note 3	Note 3
4-Mar-20	Downwind	Note 3	Note 3	Note 3
5-Mar-20	Upwind	Note 3	Note 3	Note 3
5-Mar-20	Downwind	Note 3	Note 3	Note 3
6-Mar-20	Upwind	Note 3	Note 3	Note 3
6-Mar-20	Downwind	Note 3	Note 3	Note 3

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
9-Mar-20	Upwind	Note 3	Note 3	Note 3
9-Mar-20	Downwind	Note 3	Note 3	Note 3
10-Mar-20	Upwind	Note 3	Note 3	Note 3
10-Mar-20	Downwind	Note 3	Note 3	Note 3
11-Mar-20	Upwind	Note 3	Note 3	Note 3
11-Mar-20	Downwind	Note 3	Note 3	Note 3
12-Mar-20	Upwind	Note 3	Note 3	Note 3
12-Mar-20	Downwind	Note 3	Note 3	Note 3
13-Mar-20	Upwind	Note 3	Note 3	Note 3
13-Mar-20	Downwind	Note 3	Note 3	Note 3
16-Mar-20	Upwind	Note 3	Note 3	Note 3
16-Mar-20	Downwind	Note 3	Note 3	Note 3
17-Mar-20	Upwind	Note 3	Note 3	Note 3
17-Mar-20	Downwind	Note 3	Note 3	Note 3
18-Mar-20	Upwind	Note 3	Note 3	Note 3
18-Mar-20	Downwind	Note 3	Note 3	Note 3
19-Mar-20	Upwind	Note 3	Note 3	Note 3
19-Mar-20	Downwind	Note 3	Note 3	Note 3
20-Mar-20	Upwind	Note 3	Note 3	Note 3
20-Mar-20	Downwind	Note 3	Note 3	Note 3
23-Mar-20	Upwind	Note 3	Note 3	Note 3
23-Mar-20	Downwind	Note 3	Note 3	Note 3
24-Mar-20	Upwind	Note 3	Note 3	Note 3
24-Mar-20	Downwind	Note 3	Note 3	Note 3
25-Mar-20	Upwind	Note 3	Note 3	Note 3
25-Mar-20	Downwind	Note 3	Note 3	Note 3
26-Mar-20	Upwind	Note 3	Note 3	Note 3
26-Mar-20	Downwind	Note 3	Note 3	Note 3
27-Mar-20	Upwind	Note 3	Note 3	Note 3
27-Mar-20	Downwind	Note 3	Note 3	Note 3
30-Mar-20	Upwind	Note 3	Note 3	Note 3
30-Mar-20	Downwind	Note 3	Note 3	Note 3
31-Mar-20	Upwind	Note 3	Note 3	Note 3
31-Mar-20	Downwind	Note 3	Note 3	Note 3
1-Apr-20	Upwind	Note 3	Note 3	Note 3
1-Apr-20	Downwind	Note 3	Note 3	Note 3
2-Apr-20	Upwind	Note 3	Note 3	Note 3
2-Apr-20	Downwind	Note 3	Note 3	Note 3
3-Apr-20	Upwind	Note 3	Note 3	Note 3

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
3-Apr-20	Downwind	Note 3	Note 3	Note 3
6-Apr-20	Upwind	Note 3	Note 3	Note 3
6-Apr-20	Downwind	Note 3	Note 3	Note 3
7-Apr-20	Upwind	Note 3	Note 3	Note 3
7-Apr-20	Downwind	Note 3	Note 3	Note 3
8-Apr-20	Upwind	Note 3	Note 3	Note 3
8-Apr-20	Downwind	Note 3	Note 3	Note 3
9-Apr-20	Upwind	Note 3	Note 3	Note 3
9-Apr-20	Downwind	Note 3	Note 3	Note 3
10-Apr-20	Upwind	Note 3	Note 3	Note 3
10-Apr-20	Downwind	Note 3	Note 3	Note 3
13-Apr-20	Upwind	Note 3	Note 3	Note 3
13-Apr-20	Downwind	Note 3	Note 3	Note 3
14-Apr-20	Upwind	Note 3	Note 3	Note 3
14-Apr-20	Downwind	Note 3	Note 3	Note 3
15-Apr-20	Upwind	Note 3	Note 3	Note 3
15-Apr-20	Downwind	Note 3	Note 3	Note 3
16-Apr-20	Upwind	Note 3	Note 3	Note 3
16-Apr-20	Downwind	Note 3	Note 3	Note 3
17-Apr-20	Upwind	Note 3	Note 3	Note 3
17-Apr-20	Downwind	Note 3	Note 3	Note 3
20-Apr-20	Upwind	Note 3	Note 3	Note 3
20-Apr-20	Downwind	Note 3	Note 3	Note 3
21-Apr-20	Upwind	Note 3	Note 3	Note 3
21-Apr-20	Downwind	Note 3	Note 3	Note 3
22-Apr-20	Upwind	Note 3	Note 3	Note 3
22-Apr-20	Downwind	Note 3	Note 3	Note 3
23-Apr-20	Upwind	Note 3	Note 3	Note 3
23-Apr-20	Downwind	Note 3	Note 3	Note 3
24-Apr-20	Upwind	Note 3	Note 3	Note 3
24-Apr-20	Downwind	Note 3	Note 3	Note 3
27-Apr-20	Upwind	Note 3	Note 3	Note 3
27-Apr-20	Downwind	Note 3	Note 3	Note 3
28-Apr-20	Upwind	Note 3	Note 3	Note 3
28-Apr-20	Downwind	Note 3	Note 3	Note 3
29-Apr-20	Upwind	9.5	0.0026	No
29-Apr-20	Downwind	9.4	<0.0024	No
30-Apr-20	Upwind	9.5	<0.0024	No
30-Apr-20	Downwind	9.6	<0.0023	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
1-May-20	Upwind	Note 3	Note 3	Note 3
1-May-20	Downwind	Note 3	Note 3	Note 3
4-May-20	Upwind	9.6	0.0030	No
4-May-20	Downwind	9.6	<0.0024	No
5-May-20	Upwind	9.5	0.0026	No
5-May-20	Downwind	9.4	<0.0024	No
6-May-20	Upwind	9.6	<0.0023	No
6-May-20	Downwind	9.5	<0.0024	No
7-May-20	Upwind	9.4	<0.0024	No
7-May-20	Downwind	9.5	<0.0024	No
8-May-20	Upwind	Note 3	Note 3	Note 3
8-May-20	Downwind	Note 3	Note 3	Note 3
11-May-20	Upwind	9.7	<0.0023	No
11-May-20	Downwind	9.6	<0.0023	No
12-May-20	Upwind	9.6	<0.0023	No
12-May-20	Downwind	9.5	<0.0024	No
13-May-20	Upwind	9.6	<0.0023	No
13-May-20	Downwind	9.5	<0.0024	No
14-May-20	Upwind	9.5	<0.0024	No
14-May-20	Downwind	9.5	<0.0024	No
15-May-20	Upwind	9.4	<0.0024	No
15-May-20	Downwind	9.4	<0.0024	No
18-May-20	Upwind	9.7	<0.0023	No
18-May-20	Downwind	9.7	<0.0023	No
19-May-20	Upwind	9.6	<0.0023	No
19-May-20	Downwind	9.6	<0.0023	No
20-May-20	Upwind	9.6	<0.0023	No
20-May-20	Downwind	9.5	0.0030	No
21-May-20	Upwind	9.6	<0.0023	No
21-May-20	Downwind	9.7	<0.0023	No
22-May-20	Upwind	9.5	<0.0024	No
22-May-20	Downwind	9.5	<0.0024	No
25-May-20	Upwind	Note 2	Note 2	Note 2
25-May-20	Downwind	Note 2	Note 2	Note 2
26-May-20	Upwind	9.7	0.0038	No
26-May-20	Downwind	9.6	<0.0023	No
27-May-20	Upwind	9.6	0.0066	No
27-May-20	Downwind	9.5	<0.0024	No
28-May-20	Upwind	9.6	0.0068	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
28-May-20	Downwind	9.5	<0.0024	No
29-May-20	Upwind	9.5	<0.0024	No
29-May-20	Downwind	9.5	0.0125	No
1-Jun-20	Upwind	7.5	0.0038	No
1-Jun-20	Downwind	7.4	<0.0030	No
2-Jun-20	Upwind	7.6	<0.0030	No
2-Jun-20	Downwind	7.6	0.0035	No
3-Jun-20	Upwind	7.6	0.0059	No
3-Jun-20	Downwind	7.6	<0.0030	No
4-Jun-20	Upwind	8.6	0.0045	No
4-Jun-20	Downwind	7.6	<0.0030	No
5-Jun-20	Upwind	7.5	0.0033	No
5-Jun-20	Downwind	7.5	<0.0030	No
8-Jun-20	Upwind	9.8	0.0046	No
8-Jun-20	Downwind	9.7	<0.0023	No
9-Jun-20	Upwind	9.7	<0.0023	No
9-Jun-20	Downwind	9.8	0.0029	No
10-Jun-20	Upwind	9.7	0.0040	No
10-Jun-20	Downwind	9.8	<0.0023	No
11-Jun-20	Upwind	9.8	0.0126	No
11-Jun-20	Downwind	9.8	0.0033	No
12-Jun-20	Upwind	9.6	0.0047	No
12-Jun-20	Downwind	9.8	0.0034	No
13-Jun-20	Upwind	9.5	0.0026	No
13-Jun-20	Downwind	9.6	<0.0023	No
15-Jun-20	Upwind	9.7	0.0070	No
15-Jun-20	Downwind	9.7	0.0039	No
16-Jun-20	Upwind	9.8	0.0059	No
16-Jun-20	Downwind	9.8	0.0092	No
17-Jun-20	Upwind	9.6	0.0026	No
17-Jun-20	Downwind	9.7	<0.0023	No
18-Jun-20	Upwind	9.7	0.0030	No
18-Jun-20	Downwind	9.7	0.0026	No
19-Jun-20	Upwind	9.8	0.0047	No
19-Jun-20	Downwind	9.8	0.0030	No
20-Jun-20	Upwind	9.8	<0.0023	No
20-Jun-20	Downwind	9.8	<0.0023	No
22-Jun-20	Upwind	9.6	0.0116	No
22-Jun-20	Downwind	9.7	<0.0023	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
23-Jun-20	Upwind	9.7	0.0026	No
23-Jun-20	Downwind	9.7	<0.0023	No
24-Jun-20	Upwind	9.7	0.0026	No
24-Jun-20	Downwind	9.7	<0.0023	No
25-Jun-20	Upwind	9.7	<0.0023	No
25-Jun-20	Downwind	9.7	<0.0023	No
26-Jun-20	Upwind	9.6	0.0047	No
26-Jun-20	Downwind	9.7	<0.0023	No
27-Jun-20	Upwind	9.7	<0.0023	No
27-Jun-20	Downwind	9.5	0.0052	No
29-Jun-20	Upwind	9.5	0.0026	No
29-Jun-20	Downwind	9.6	0.0043	No
30-Jun-20	Upwind	9.1	0.0066	No
30-Jun-20	Downwind	9.0	0.0046	No
1-Jul-20	Upwind	9.2	0.0049	No
1-Jul-20	Downwind	9.3	0.0031	No
2-Jul-20	Upwind	9.6	<0.0025	No
2-Jul-20	Downwind	9.3	<0.0024	No
6-Jul-20	Upwind	9.1	0.0026	No
6-Jul-20	Downwind	9.1	<0.0024	No
7-Jul-20	Upwind	9.7	<0.0023	No
7-Jul-20	Downwind	9.7	0.0032	No
8-Jul-20	Upwind	9.8	<0.0023	No
8-Jul-20	Downwind	9.5	<0.0023	No
9-Jul-20	Upwind	9.4	0.0026	No
9-Jul-20	Downwind	9.4	<0.0023	No
10-Jul-20	Upwind	9.2	0.0047	No
10-Jul-20	Downwind	9.1	<0.0023	No
13-Jul-20	Upwind	8.5	<0.0026	No
13-Jul-20	Downwind	8.4	0.0047	No
14-Jul-20	Upwind	9.1	0.0066	No
14-Jul-20	Downwind	8.8	<0.0025	No
15-Jul-20	Upwind	9.3	<0.0013	No
15-Jul-20	Downwind	8.8	0.0018	No
16-Jul-20	Upwind	9.1	0.0037	No
16-Jul-20	Downwind	8.9	<0.0023	No
17-Jul-20	Upwind	9.6	0.0044	No
17-Jul-20	Downwind	9.2	<0.0024	No
20-Jul-20	Upwind	9.3	0.0029	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
20-Jul-20	Downwind	8.9	<0.0025	No
21-Jul-20	Upwind	9.5	0.0041	No
21-Jul-20	Downwind	9.1	<0.0025	No
22-Jul-20	Upwind	8.6	<0.0026	No
22-Jul-20	Downwind	14.7	<0.0015	No
23-Jul-20	Upwind	15.8	0.0040	No
23-Jul-20	Downwind	16.0	<0.0014	No
24-Jul-20	Upwind	9.7	<0.0023	No
24-Jul-20	Downwind	9.3	0.0024	No
27-Jul-20	Upwind	16.1	0.0034	No
27-Jul-20	Downwind	14.6	<0.0015	No
28-Jul-20	Upwind	16.8	0.0022	No
28-Jul-20	Downwind	16.2	<0.0014	No
29-Jul-20	Upwind	14.9	0.0018	No
29-Jul-20	Downwind	15.1	<0.0015	No
30-Jul-20	Upwind	15.9	0.0026	No
30-Jul-20	Downwind	21.7	Note 4	Note 4
31-Jul-20	Upwind	9.7	<0.0023	No
31-Jul-20	Downwind	9.3	<0.0024	No
3-Aug-20	Upwind	17.6	0.0037	No
3-Aug-20	Downwind	14.6	0.0020	No
4-Aug-20	Upwind	17.5	0.0016	No
4-Aug-20	Downwind	17.0	<0.0013	No
5-Aug-20	Upwind	15.7	0.0034	No
5-Aug-20	Downwind	14.1	<0.0016	No
6-Aug-20	Upwind	16.6	0.0027	No
6-Aug-20	Downwind	15.3	0.0020	No
7-Aug-20	Upwind	9.6	0.0040	No
7-Aug-20	Downwind	9.3	<0.0024	No
10-Aug-20	Upwind	16.1	0.0039	No
10-Aug-20	Downwind	16.3	<0.0014	No
11-Aug-20	Upwind	14.9	0.0020	No
11-Aug-20	Downwind	15.5	<0.0014	No
12-Aug-20	Upwind	8.9	0.0118	No
12-Aug-20	Downwind	15.6	<0.0014	No
13-Aug-20	Upwind	16.6	0.0022	No
13-Aug-20	Downwind	15.4	<0.0015	No
14-Aug-20	Upwind	16.9	0.0017	No
14-Aug-20	Downwind	16.4	<0.0014	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
17-Aug-20	Upwind	17.4	0.0031	No
17-Aug-20	Downwind	17.7	<0.0013	No
18-Aug-20	Upwind	14.4	0.0053	No
18-Aug-20	Downwind	14.0	0.0019	No
19-Aug-20	Upwind	9.8	0.0138	No
19-Aug-20	Downwind	16.5	0.0027	No
20-Aug-20	Upwind	17.5	0.0056	No
20-Aug-20	Downwind	16.3	0.0026	No
21-Aug-20	Upwind	17.9	0.0014	No
21-Aug-20	Downwind	17.3	<0.0013	No
24-Aug-20	Upwind	15.9	0.0034	No
24-Aug-20	Downwind	15.1	<0.0015	No
25-Aug-20	Upwind	17.6	0.0029	No
25-Aug-20	Downwind	15.8	<0.0014	No
26-Aug-20	Upwind	12.4	<0.0018	No
26-Aug-20	Downwind	13.4	<0.0017	No
27-Aug-20	Upwind	16.1	0.0017	No
27-Aug-20	Downwind	14.8	<0.0015	No
28-Aug-20	Upwind	9.8	0.0059	No
28-Aug-20	Downwind	9.5	<0.0024	No
31-Aug-20	Upwind	15.5	0.0016	No
31-Aug-20	Downwind	15.2	<0.0015	No
1-Sep-20	Upwind	16.5	<0.0014	No
1-Sep-20	Downwind	8.4	<0.0027	No
2-Sep-20	Upwind	16.3	0.0045	No
2-Sep-20	Downwind	15.1	<0.0015	No
3-Sep-20	Upwind	15.3	0.0021	No
3-Sep-20	Downwind	15.5	<0.0014	No
4-Sep-20	Upwind	10.1	<0.0022	No
4-Sep-20	Downwind	9.8	<0.0023	No
7-Sep-20	Upwind	Labor Day	Labor Day	No
7-Sep-20	Downwind	Labor Day	Labor Day	No
8-Sep-20	Upwind	9.8	0.0033	No
8-Sep-20	Downwind	15.1	0.0024	No
9-Sep-20	Upwind	5.4	0.0068	No
9-Sep-20	Downwind	5.1	0.0056	No
10-Sep-20	Upwind	14.5	<0.0015	No
10-Sep-20	Downwind	15.4	<0.0015	No
11-Sep-20	Upwind	8.0	<0.0028	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
11-Sep-20	Downwind	7.8	<0.0029	No
14-Sep-20	Upwind	15.8	<0.0014	No
14-Sep-20	Downwind	15.6	<0.0014	No
15-Sep-20	Upwind	16.7	<0.0013	No
15-Sep-20	Downwind	15.1	<0.0015	No
16-Sep-20	Upwind	13.7	<0.0016	No
16-Sep-20	Downwind	14.0	<0.0016	No
17-Sep-20	Upwind	16.0	<0.0014	No
17-Sep-20	Downwind	14.2	<0.0016	No
18-Sep-20	Upwind	9.7	<0.0023	No
18-Sep-20	Downwind	9.5	<0.0024	No
21-Sep-20	Upwind	16.0	0.0026	No
21-Sep-20	Downwind	14.4	0.0021	No
22-Sep-20	Upwind	17.0	<0.0013	No
22-Sep-20	Downwind	16.9	<0.0013	No
23-Sep-20	Upwind	15.4	0.0023	No
23-Sep-20	Downwind	15.3	<0.0015	No
24-Sep-20	Upwind	17.1	0.0023	No
24-Sep-20	Downwind	13.1	0.0017	No
25-Sep-20	Upwind	8.3	0.0064	No
25-Sep-20	Downwind	8.3	<0.0027	No
28-Sep-20	Upwind	14.9	0.0036	No
28-Sep-20	Downwind	14.9	0.0021	No
29-Sep-20	Upwind	17.0	0.0014	No
29-Sep-20	Downwind	17.0	<0.0013	No
30-Sep-20	Upwind	16.4	<0.0014	No
30-Sep-20	Downwind	16.7	<0.0013	No
1-Oct-20	Upwind	15.7	<0.0014	No
1-Oct-20	Downwind	15.7	<0.0014	No
2-Oct-20	Upwind	7.4	<0.0030	No
2-Oct-20	Downwind	7.4	<0.0031	No
5-Oct-20	Upwind	9.2	0.0054	No
5-Oct-20	Downwind	7.3	0.0059	No
6-Oct-20	Upwind	9.1	0.0063	No
6-Oct-20	Downwind	16.9	0.0019	No
7-Oct-20	Upwind	5.8	<0.0039	No
7-Oct-20	Downwind	14.8	<0.0015	No
8-Oct-20	Upwind	8.3	<0.0027	No
8-Oct-20	Downwind	15.2	0.0024	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
9-Oct-20	Upwind	7.7	<0.0029	No
9-Oct-20	Downwind	7.5	<0.0030	No
12-Oct-20	Upwind	18.1	<0.0012	No
12-Oct-20	Downwind	10.7	<0.0021	No
13-Oct-20	Upwind	10.9	<0.0021	No
13-Oct-20	Downwind	16.0	<0.0014	No
14-Oct-20	Upwind	12.4	0.0023	No
14-Oct-20	Downwind	16.5	<0.0014	No
15-Oct-20	Upwind	15.1	0.0035	No
15-Oct-20	Downwind	7.6	0.0059	No
16-Oct-20	Upwind	7.8	0.0032	No
16-Oct-20	Downwind	7.5	<0.0030	No
19-Oct-20	Upwind	7.8	0.0015	No
19-Oct-20	Downwind	7.5	<0.0021	No
20-Oct-20	Upwind	16.4	<0.0021	No
20-Oct-20	Downwind	7.7	<0.0014	No
21-Oct-20	Upwind	24.0	0.0018	No
21-Oct-20	Downwind	24.1	<0.0014	No
22-Oct-20	Upwind	23.6	0.0016	No
22-Oct-20	Downwind	21.8	<0.0030	No
23-Oct-20	Upwind	17.4	<0.0013	No
23-Oct-20	Downwind	17.5	<0.0013	No
24-Oct-20	Upwind	5.5	<0.0041	No
24-Oct-20	Downwind	5.2	<0.0043	No
26-Oct-20	Upwind	14.7	0.0035	No
26-Oct-20	Downwind	14.7	0.0025	No
27-Oct-20	Upwind	16.4	0.0050	No
27-Oct-20	Downwind	16.7	<0.0013	No
28-Oct-20	Upwind	14.1	0.0045	No
28-Oct-20	Downwind	14.9	<0.0015	No
29-Oct-20	Upwind	15.2	0.0026	No
29-Oct-20	Downwind	14.4	0.0040	No
30-Oct-20	Upwind	17.1	0.0025	No
30-Oct-20	Downwind	14.5	0.0017	No
31-Oct-20	Upwind	7.7	0.0029	No
31-Oct-20	Downwind	7.7	0.0040	No
2-Nov-20	Upwind	15.5	0.0021	No
2-Nov-20	Downwind	15.3	0.0020	No
3-Nov-20	Upwind	21.5	<0.0010	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
3-Nov-20	Downwind	17.4	<0.0013	No
4-Nov-20	Upwind	21.3	0.0020	No
4-Nov-20	Downwind	13.9	0.0016	No
5-Nov-20	Upwind	22.8	<0.0010	No
5-Nov-20	Downwind	23.1	<0.0010	No
6-Nov-20	Upwind	24.0	<0.0009	No
6-Nov-20	Downwind	23.5	<0.0010	No
7-Nov-20	Upwind	24.3	<0.0009	No
7-Nov-20	Downwind	23.1	<0.0010	No
9-Nov-20	Upwind	13.8	<0.0016	No
9-Nov-20	Downwind	13.8	<0.0016	No
10-Nov-20	Upwind	14.1	0.0025	No
10-Nov-20	Downwind	14.7	<0.0015	No
11-Nov-20	Upwind	13.5	0.0021	No
11-Nov-20	Downwind	13.8	<0.0016	No
12-Nov-20	Upwind	17.0	<0.0013	No
12-Nov-20	Downwind	14.8	0.0017	No
13-Nov-20	Upwind	6.3	<0.0036	No
13-Nov-20	Downwind	5.9	<0.0038	No
14-Nov-20	Upwind	15.3	<0.0015	No
14-Nov-20	Downwind	13.5	<0.0017	No
16-Nov-20	Upwind	17.6	<0.0013	No
16-Nov-20	Downwind	15.3	<0.0015	No
17-Nov-20	Upwind	2.6	<0.0087	No
17-Nov-20	Downwind	3.4	<0.0066	No
18-Nov-20	Upwind	16.5	<0.0014	No
18-Nov-20	Downwind	15.6	<0.0014	No
19-Nov-20	Upwind	24.2	<0.0009	No
19-Nov-20	Downwind	24.1	<0.0009	No
20-Nov-20	Upwind	22.6	<0.0010	No
20-Nov-20	Downwind	22.5	<0.0010	No
21-Nov-20	Upwind	16.6	0.0016	No
21-Nov-20	Downwind	13.4	<0.0017	No
23-Nov-20	Upwind	14.2	0.0036	No
23-Nov-20	Downwind	12.6	0.0026	No
24-Nov-20	Upwind	15.5	0.0016	No
24-Nov-20	Downwind	12.9	0.0035	No
25-Nov-20	Upwind	9.5	0.0030	No
25-Nov-20	Downwind	10.9	<0.0021	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
26-Nov-20	Note 2	Note 2	Note 2	Note 2
26-Nov-20	Note 2	Note 2	Note 2	Note 2
27-Nov-20	Note 2	Note 2	Note 2	Note 2
27-Nov-20	Note 2	Note 2	Note 2	Note 2
30-Nov-20	Upwind	16.7	0.0017	No
30-Nov-20	Downwind	14.2	<0.0016	No
1-Dec-20	Upwind	15.3	<0.0015	No
1-Dec-20	Downwind	13.4	<0.0017	No
2-Dec-20	Upwind	15.4	0.0016	No
2-Dec-20	Downwind	12.6	<0.0018	No
3-Dec-20	Upwind	14.8	<0.0015	No
3-Dec-20	Downwind	13.8	<0.0016	No
4-Dec-20	Upwind	15.9	<0.0014	No
4-Dec-20	Downwind	13.4	<0.0017	No
5-Dec-20	Upwind	8.1	<.0.0027	No
5-Dec-20	Downwind	7.8	<0.0030	No
7-Dec-20	Upwind	14.5	0.0017	No
7-Dec-20	Downwind	12.9	0.0021	No
8-Dec-20	Upwind	14.3	0.0022	No
8-Dec-20	Downwind	14.2	0.0022	No
9-Dec-20	Upwind	14.3	<0.0016	No
9-Dec-20	Downwind	12.1	0.0024	No
10-Dec-20	Upwind	15.5	<0.0014	No
10-Dec-20	Downwind	12.1	<0.0019	No
11-Dec-20	Upwind	7.3	0.0048	No
11-Dec-20	Downwind	7.2	<0.0031	No
14-Dec-20	Upwind	14.8	<0.0015	No
14-Dec-20	Downwind	12.0	<0.0019	No
15-Dec-20	Upwind	13.9	<0.0016	No
15-Dec-20	Downwind	13.6	<0.0016	No
16-Dec-20	Upwind	14.5	0.0017	No
16-Dec-20	Downwind	12.8	<0.0018	No
18-Dec-20	Upwind	7.8	<0.0029	No
18-Dec-20	Downwind	7.5	0.0033	No
21-Dec-20	Upwind	15.0	<0.0015	No
21-Dec-20	Downwind	15.8	<0.0014	No
22-Dec-20	Upwind	9.3	<0.0024	No
22-Dec-20	Downwind	9.2	<0.0025	No
23-Dec-20	Upwind	6.2	<0.0036	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
23-Dec-20	Downwind	5.9	<0.0038	No
24-Dec-20	Note 2	Note 2	Note 2	Note 2
24-Dec-20	Note 2	Note 2	Note 2	Note 2
25-Dec-20	Note 2	Note 2	Note 2	Note 2
25-Dec-20	Note 2	Note 2	Note 2	Note 2
28-Dec-20	Upwind	15.7	0.0030	No
28-Dec-20	Downwind	12.4	0.0049	No
29-Dec-20	Upwind	12.6	<0.0018	No
29-Dec-20	Downwind	11.5	<0.0020	No
30-Dec-20	Upwind	14.6	<0.0015	No
30-Dec-20	Downwind	14.2	<0.0016	No
31-Dec-20	Upwind	16.0	<0.0014	No
31-Dec-20	Downwind	10.9	<0.0021	No
1-Jan-21	Note 2	Note 2	Note 2	Note 2
1-Jan-21	Note 2	Note 2	Note 2	Note 2

Notes:
Note 1: Sample not collected due to inclement weather conditions: Rain.
Note 2: Samples were not collected as project site was closed for holidays.
Note 3: Samples were not collected as no excavation was conducted.
Note 4: Filter cartridge damaged, no Asbestos result.
Sample locations are shown on Figure 1.
The threshold value for asbestos is 0.1 fibers/cm^3.
The detection limit is 0.003 fibers/cm^3 assuming a minimum sample volume of 900 liters.
< - less than
fibers/cm^3 - fibers per cubic centimeter

ATTACHMENT 2
ANALYTICAL LABORATORY REPORTS

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eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-45678-1
Client Project/Site: HPNS - Parcel E / 500712

For:
Aptim Federal Services LLC
Hunters Point Shipyard
200 Fisher Blvd
San Francisco, California 94124

Attn: Rose Condit

Terri Chang

Authorized for release by:
12/22/2020 5:34:22 PM

Terri Chang, Project Manager I
(714)895-5494
Terri.Chang@eurofinset.com

Table of Contents

Definitions/Glossary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-45678-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-45678-1

Job ID: 570-45678-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-45678-1

Comments
No additional comments.

Receipt
The samples were received on 12/9/2020 11:35 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 22.0º C.

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): PE-ASB120220-12ADOWNWIND (570-45678-6) and PE-ASB120320-12ADOWNWIND (570-45678-8). The container labels(-6) list PE-ASB120320-12ADOWNWIND (12/03/20 7:19), while the COC lists PE-ASB120220-12ADOWNWIND (12/02/20 7:20). The container labels(-8) list PE-ASB120220-12ADOWNWIND (12/02/20 7:20), while the COC lists PE-ASB120320-12ADOWNWIND (12/03/20 7:19). The client was contacted, and the lab was instructed to use the information listed on the Chain-of-Custody (COC).

Metals
Method 6010B: The method blank for preparation batch 570-117478 and analytical batch 570-118167 contained Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Lab Admin
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - Low Flow: This method was subcontracted to EMSL - LA Testing - Huntington Beach. The subcontract laboratory certification is different from that of the facility issuing the final report.

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP113020-B606UPWIND
Date Collected: 11/30/20 07:07
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Lab Sample ID: 570-45678-14
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/19/20 09:00	12/22/20 09:38	1
Lead	**8.86**	**J B**	12.0	3.16	ug/Sample		12/19/20 09:00	12/22/20 09:38	1
Manganese	**36.8**		6.00	3.34	ug/Sample		12/19/20 09:00	12/22/20 09:38	1

Client Sample ID: PE-TSP113020-12ADOWNWIND
Date Collected: 11/30/20 07:20
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Lab Sample ID: 570-45678-15
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/19/20 09:00	12/22/20 09:47	1
Lead	**14.9**	**B**	12.0	3.16	ug/Sample		12/19/20 09:00	12/22/20 09:47	1
Manganese	**28.7**		6.00	3.34	ug/Sample		12/19/20 09:00	12/22/20 09:47	1

Client Sample ID: PE-TSP120120-B606UPWIND
Date Collected: 12/01/20 07:10
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Lab Sample ID: 570-45678-18
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/19/20 09:00	12/22/20 09:50	1
Lead	**7.72**	**J B**	12.0	3.16	ug/Sample		12/19/20 09:00	12/22/20 09:50	1
Manganese	**37.0**		6.00	3.34	ug/Sample		12/19/20 09:00	12/22/20 09:50	1

Client Sample ID: PE-TSP120120-12ADOWNWIND
Date Collected: 12/01/20 07:20
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Lab Sample ID: 570-45678-19
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/19/20 09:00	12/22/20 09:53	1
Lead	**8.65**	**J B**	12.0	3.16	ug/Sample		12/19/20 09:00	12/22/20 09:53	1
Manganese	**26.2**		6.00	3.34	ug/Sample		12/19/20 09:00	12/22/20 09:53	1

Client Sample ID: PE-TSP120220-B606UPWIND
Date Collected: 12/02/20 07:05
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Lab Sample ID: 570-45678-22
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/19/20 09:00	12/22/20 09:56	1
Lead	**20.3**	**B**	12.0	3.16	ug/Sample		12/19/20 09:00	12/22/20 09:56	1
Manganese	**88.3**		6.00	3.34	ug/Sample		12/19/20 09:00	12/22/20 09:56	1

Client Sample ID: PE-TSP120220-12ADOWNWIND
Date Collected: 12/02/20 07:20
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Lab Sample ID: 570-45678-23
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/19/20 09:00	12/22/20 09:58	1
Lead	ND		12.0	3.16	ug/Sample		12/19/20 09:00	12/22/20 09:58	1
Manganese	**18.9**		6.00	3.34	ug/Sample		12/19/20 09:00	12/22/20 09:58	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP120320-B606UPWIND
Date Collected: 12/03/20 07:10
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Lab Sample ID: 570-45678-26
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/19/20 09:00	12/22/20 10:13	1
Lead	**5.99**	**J B**	12.0	3.16	ug/Sample		12/19/20 09:00	12/22/20 10:13	1
Manganese	**37.7**		6.00	3.34	ug/Sample		12/19/20 09:00	12/22/20 10:13	1

Client Sample ID: PE-TSP120320-12ADOWNWIND
Date Collected: 12/03/20 07:19
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Lab Sample ID: 570-45678-27
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/19/20 09:00	12/22/20 10:16	1
Lead	**22.8**	**B**	12.0	3.16	ug/Sample		12/19/20 09:00	12/22/20 10:16	1
Manganese	**129**		6.00	3.34	ug/Sample		12/19/20 09:00	12/22/20 10:16	1

Client Sample ID: PE-TSP120420-B606UPWIND
Date Collected: 12/04/20 07:05
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Lab Sample ID: 570-45678-30
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/19/20 09:00	12/22/20 10:18	1
Lead	**11.5**	**J B**	12.0	3.16	ug/Sample		12/19/20 09:00	12/22/20 10:18	1
Manganese	**51.9**		6.00	3.34	ug/Sample		12/19/20 09:00	12/22/20 10:18	1

Client Sample ID: PE-TSP120420-12ADOWNWIND
Date Collected: 12/04/20 07:28
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Lab Sample ID: 570-45678-31
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/19/20 09:00	12/22/20 10:21	1
Lead	**8.10**	**J B**	12.0	3.16	ug/Sample		12/19/20 09:00	12/22/20 10:21	1
Manganese	**50.3**		6.00	3.34	ug/Sample		12/19/20 09:00	12/22/20 10:21	1

Client Sample ID: PE-TSP120520-B606UPWIND
Date Collected: 12/05/20 07:05
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Lab Sample ID: 570-45678-34
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**9.47**	**J**	18.0	6.22	ug/Sample		12/19/20 09:00	12/22/20 10:24	1
Lead	**3.28**	**J B**	12.0	3.16	ug/Sample		12/19/20 09:00	12/22/20 10:24	1
Manganese	**18.9**		6.00	3.34	ug/Sample		12/19/20 09:00	12/22/20 10:24	1

Client Sample ID: PE-TSP120520-12ADOWNWIND
Date Collected: 12/05/20 07:15
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Lab Sample ID: 570-45678-35
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/19/20 09:00	12/22/20 10:27	1
Lead	**5.81**	**J B**	12.0	3.16	ug/Sample		12/19/20 09:00	12/22/20 10:27	1
Manganese	**21.1**		6.00	3.34	ug/Sample		12/19/20 09:00	12/22/20 10:27	1

General Chemistry

Client Sample ID: PE-TSP113020-B606UPWIND
Lab Sample ID: 570-45678-14
Date Collected: 11/30/20 07:07
Matrix: Air
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	50.7		3.07	3.07	ug/m3			12/11/20 09:07	1

Client Sample ID: PE-TSP113020-12ADOWNWIND
Lab Sample ID: 570-45678-15
Date Collected: 11/30/20 07:20
Matrix: Air
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	41.6		3.08	3.08	ug/m3			12/11/20 09:07	1

Client Sample ID: PE-PM10113020-B606UPWIND
Lab Sample ID: 570-45678-16
Date Collected: 11/30/20 07:07
Matrix: Air
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	39.2		3.15	3.15	ug/m3			12/10/20 17:45	1

Client Sample ID: PE-PM10113020-12ADOWNWIND
Lab Sample ID: 570-45678-17
Date Collected: 11/30/20 07:20
Matrix: Air
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	24.3		3.08	3.08	ug/m3			12/10/20 17:45	1

Client Sample ID: PE-TSP120120-B606UPWIND
Lab Sample ID: 570-45678-18
Date Collected: 12/01/20 07:10
Matrix: Air
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	44.4		2.79	2.79	ug/m3			12/11/20 09:07	1

Client Sample ID: PE-TSP120120-12ADOWNWIND
Lab Sample ID: 570-45678-19
Date Collected: 12/01/20 07:20
Matrix: Air
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	36.6		2.79	2.79	ug/m3			12/11/20 09:07	1

Client Sample ID: PE-PM10120120-B606UPWIND
Lab Sample ID: 570-45678-20
Date Collected: 12/01/20 07:10
Matrix: Air
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	35.4		2.79	2.79	ug/m3			12/10/20 17:45	1

Client Sample ID: PE-PM10120120-12ADOWNWIND
Lab Sample ID: 570-45678-21
Date Collected: 12/01/20 07:20
Matrix: Air
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	19.5		2.79	2.79	ug/m3			12/10/20 17:45	1

General Chemistry

Client Sample ID: PE-TSP120220-B606UPWIND
Date Collected: 12/02/20 07:05
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Lab Sample ID: 570-45678-22
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	111		2.77	2.77	ug/m3			12/11/20 09:07	1

Client Sample ID: PE-TSP120220-12ADOWNWIND
Date Collected: 12/02/20 07:20
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Lab Sample ID: 570-45678-23
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	34.1		2.79	2.79	ug/m3			12/11/20 09:07	1

Client Sample ID: PE-PM10120220-B606UPWIND
Date Collected: 12/02/20 07:05
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Lab Sample ID: 570-45678-24
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	65.8		2.77	2.77	ug/m3			12/10/20 17:45	1

Client Sample ID: PE-PM10120220-12ADOWNWIND
Date Collected: 12/02/20 07:20
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Lab Sample ID: 570-45678-25
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	28.2		2.79	2.79	ug/m3			12/10/20 17:45	1

Client Sample ID: PE-TSP120320-B606UPWIND
Date Collected: 12/03/20 07:10
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Lab Sample ID: 570-45678-26
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	71.1		2.66	2.66	ug/m3			12/11/20 09:07	1

Client Sample ID: PE-TSP120320-12ADOWNWIND
Date Collected: 12/03/20 07:19
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Lab Sample ID: 570-45678-27
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	131		2.66	2.66	ug/m3			12/11/20 09:07	1

Client Sample ID: PE-PM10120320-B606UPWIND
Date Collected: 12/03/20 07:10
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Lab Sample ID: 570-45678-28
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	54.0		2.70	2.70	ug/m3			12/10/20 17:45	1

Client Sample ID: PE-PM10120320-12ADOWNWIND
Date Collected: 12/03/20 07:19
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Lab Sample ID: 570-45678-29
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	105		2.66	2.66	ug/m3			12/10/20 17:45	1

General Chemistry

Client Sample ID: PE-TSP120420-B606UPWIND — **Lab Sample ID: 570-45678-30**
Date Collected: 12/04/20 07:05 — **Matrix: Air**
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	66.6		2.64	2.64	ug/m3			12/11/20 09:07	1

Client Sample ID: PE-TSP120420-12ADOWNWIND — **Lab Sample ID: 570-45678-31**
Date Collected: 12/04/20 07:28 — **Matrix: Air**
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	78.1		2.67	2.67	ug/m3			12/11/20 09:07	1

Client Sample ID: PE-PM10120420-B606UPWIND — **Lab Sample ID: 570-45678-32**
Date Collected: 12/04/20 07:05 — **Matrix: Air**
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	80.1		2.70	2.70	ug/m3			12/10/20 17:45	1

Client Sample ID: PE-PM10120420-12ADOWNWIND — **Lab Sample ID: 570-45678-33**
Date Collected: 12/04/20 07:28 — **Matrix: Air**
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	61.8		2.67	2.67	ug/m3			12/10/20 17:45	1

Client Sample ID: PE-TSP120520-B606UPWIND — **Lab Sample ID: 570-45678-34**
Date Collected: 12/05/20 07:05 — **Matrix: Air**
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	57.5		5.47	5.47	ug/m3			12/11/20 09:07	1

Client Sample ID: PE-TSP120520-12ADOWNWIND — **Lab Sample ID: 570-45678-35**
Date Collected: 12/05/20 07:15 — **Matrix: Air**
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	55.3		5.66	5.66	ug/m3			12/11/20 09:07	1

Client Sample ID: PE-PM10120520-B606UPWIND — **Lab Sample ID: 570-45678-36**
Date Collected: 12/05/20 07:05 — **Matrix: Air**
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	58.7		5.61	5.61	ug/m3			12/10/20 17:45	1

Client Sample ID: PE-PM10120520-12ADOWNWIND — **Lab Sample ID: 570-45678-37**
Date Collected: 12/05/20 07:15 — **Matrix: Air**
Date Received: 12/09/20 11:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	34.3		5.39	5.39	ug/m3			12/10/20 17:45	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-117478/1-A
Matrix: Air
Analysis Batch: 118167

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117478

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/19/20 09:00	12/22/20 09:30	1
Lead	3.570	J	12.0	3.16	ug/Sample		12/19/20 09:00	12/22/20 09:30	1
Manganese	ND		6.00	3.34	ug/Sample		12/19/20 09:00	12/22/20 09:30	1

Lab Sample ID: LCS 570-117478/2-A
Matrix: Air
Analysis Batch: 118167

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117478

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	600	617.7		ug/Sample		103	80 - 120
Lead	600	619.4		ug/Sample		103	80 - 120
Manganese	600	655.3		ug/Sample		109	80 - 120

Lab Sample ID: LCSD 570-117478/3-A
Matrix: Air
Analysis Batch: 118167

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117478

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	600	601.9		ug/Sample		100	80 - 120	3	20
Lead	600	609.1		ug/Sample		101	80 - 120	2	20
Manganese	600	638.1		ug/Sample		106	80 - 120	3	20

Lab Sample ID: 570-45678-14 MS
Matrix: Air
Analysis Batch: 118167

Client Sample ID: PE-TSP113020-B606UPWIND
Prep Type: Total/NA
Prep Batch: 117478

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		600	581.9		ug/Sample		97	75 - 125
Lead	8.86	J B	600	586.1		ug/Sample		96	75 - 125
Manganese	36.8		600	643.2		ug/Sample		101	75 - 125

Lab Sample ID: 570-45678-14 MSD
Matrix: Air
Analysis Batch: 118167

Client Sample ID: PE-TSP113020-B606UPWIND
Prep Type: Total/NA
Prep Batch: 117478

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		600	607.7		ug/Sample		101	75 - 125	4	20
Lead	8.86	J B	600	617.4		ug/Sample		101	75 - 125	5	20
Manganese	36.8		600	668.0		ug/Sample		105	75 - 125	4	20

Method: 40CFR50 App B - Suspended Particulate Matter in Ambient Air

Lab Sample ID: MB 570-115544/1-A
Matrix: Air
Analysis Batch: 115547

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	ND		1.23	1.23	ug/m3			12/11/20 09:07	1

Method: 40CFR50 App B - Suspended Particulate Matter in Ambient Air (Continued)

Lab Sample ID: 570-45678-14 DU
Matrix: Air
Analysis Batch: 115547

Client Sample ID: PE-TSP113020-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	50.7			50.74		ug/m3				0	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-115403/1
Matrix: Air
Analysis Batch: 115403

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		1.23	1.23	ug/m3			12/10/20 17:45	1

Lab Sample ID: 570-45678-16 DU
Matrix: Air
Analysis Batch: 115403

Client Sample ID: PE-PM10113020-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	39.2			39.24		ug/m3				0	25

Metals

Prep Batch: 117478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-45678-14	PE-TSP113020-B606UPWIND	Total/NA	Air	3050B	
570-45678-15	PE-TSP113020-12ADOWNWIND	Total/NA	Air	3050B	
570-45678-18	PE-TSP120120-B606UPWIND	Total/NA	Air	3050B	
570-45678-19	PE-TSP120120-12ADOWNWIND	Total/NA	Air	3050B	
570-45678-22	PE-TSP120220-B606UPWIND	Total/NA	Air	3050B	
570-45678-23	PE-TSP120220-12ADOWNWIND	Total/NA	Air	3050B	
570-45678-26	PE-TSP120320-B606UPWIND	Total/NA	Air	3050B	
570-45678-27	PE-TSP120320-12ADOWNWIND	Total/NA	Air	3050B	
570-45678-30	PE-TSP120420-B606UPWIND	Total/NA	Air	3050B	
570-45678-31	PE-TSP120420-12ADOWNWIND	Total/NA	Air	3050B	
570-45678-34	PE-TSP120520-B606UPWIND	Total/NA	Air	3050B	
570-45678-35	PE-TSP120520-12ADOWNWIND	Total/NA	Air	3050B	
MB 570-117478/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-117478/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-117478/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-45678-14 MS	PE-TSP113020-B606UPWIND	Total/NA	Air	3050B	
570-45678-14 MSD	PE-TSP113020-B606UPWIND	Total/NA	Air	3050B	

Analysis Batch: 118167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-45678-14	PE-TSP113020-B606UPWIND	Total/NA	Air	6010B	117478
570-45678-15	PE-TSP113020-12ADOWNWIND	Total/NA	Air	6010B	117478
570-45678-18	PE-TSP120120-B606UPWIND	Total/NA	Air	6010B	117478
570-45678-19	PE-TSP120120-12ADOWNWIND	Total/NA	Air	6010B	117478
570-45678-22	PE-TSP120220-B606UPWIND	Total/NA	Air	6010B	117478
570-45678-23	PE-TSP120220-12ADOWNWIND	Total/NA	Air	6010B	117478
570-45678-26	PE-TSP120320-B606UPWIND	Total/NA	Air	6010B	117478
570-45678-27	PE-TSP120320-12ADOWNWIND	Total/NA	Air	6010B	117478
570-45678-30	PE-TSP120420-B606UPWIND	Total/NA	Air	6010B	117478
570-45678-31	PE-TSP120420-12ADOWNWIND	Total/NA	Air	6010B	117478
570-45678-34	PE-TSP120520-B606UPWIND	Total/NA	Air	6010B	117478
570-45678-35	PE-TSP120520-12ADOWNWIND	Total/NA	Air	6010B	117478
MB 570-117478/1-A	Method Blank	Total/NA	Air	6010B	117478
LCS 570-117478/2-A	Lab Control Sample	Total/NA	Air	6010B	117478
LCSD 570-117478/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	117478
570-45678-14 MS	PE-TSP113020-B606UPWIND	Total/NA	Air	6010B	117478
570-45678-14 MSD	PE-TSP113020-B606UPWIND	Total/NA	Air	6010B	117478

General Chemistry

Analysis Batch: 115403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-45678-16	PE-PM10113020-B606UPWIND	Total/NA	Air	PM10	
570-45678-17	PE-PM10113020-12ADOWNWIND	Total/NA	Air	PM10	
570-45678-20	PE-PM10120120-B606UPWIND	Total/NA	Air	PM10	
570-45678-21	PE-PM10120120-12ADOWNWIND	Total/NA	Air	PM10	
570-45678-24	PE-PM10120220-B606UPWIND	Total/NA	Air	PM10	
570-45678-25	PE-PM10120220-12ADOWNWIND	Total/NA	Air	PM10	
570-45678-28	PE-PM10120320-B606UPWIND	Total/NA	Air	PM10	
570-45678-29	PE-PM10120320-12ADOWNWIND	Total/NA	Air	PM10	
570-45678-32	PE-PM10120420-B606UPWIND	Total/NA	Air	PM10	

General Chemistry (Continued)

Analysis Batch: 115403 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-45678-33	PE-PM10120420-12ADOWNWIND	Total/NA	Air	PM10	
570-45678-36	PE-PM10120520-B606UPWIND	Total/NA	Air	PM10	
570-45678-37	PE-PM10120520-12ADOWNWIND	Total/NA	Air	PM10	
MB 570-115403/1	Method Blank	Total/NA	Air	PM10	
570-45678-16 DU	PE-PM10113020-B606UPWIND	Total/NA	Air	PM10	

Pre Prep Batch: 115544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-45678-14	PE-TSP113020-B606UPWIND	Total/NA	Air	Filter to Air	
570-45678-15	PE-TSP113020-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-45678-18	PE-TSP120120-B606UPWIND	Total/NA	Air	Filter to Air	
570-45678-19	PE-TSP120120-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-45678-22	PE-TSP120220-B606UPWIND	Total/NA	Air	Filter to Air	
570-45678-23	PE-TSP120220-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-45678-26	PE-TSP120320-B606UPWIND	Total/NA	Air	Filter to Air	
570-45678-27	PE-TSP120320-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-45678-30	PE-TSP120420-B606UPWIND	Total/NA	Air	Filter to Air	
570-45678-31	PE-TSP120420-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-45678-34	PE-TSP120520-B606UPWIND	Total/NA	Air	Filter to Air	
570-45678-35	PE-TSP120520-12ADOWNWIND	Total/NA	Air	Filter to Air	
MB 570-115544/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-45678-14 DU	PE-TSP113020-B606UPWIND	Total/NA	Air	Filter to Air	

Analysis Batch: 115547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-45678-14	PE-TSP113020-B606UPWIND	Total/NA	Air	40CFR50 App B	115544
570-45678-15	PE-TSP113020-12ADOWNWIND	Total/NA	Air	40CFR50 App B	115544
570-45678-18	PE-TSP120120-B606UPWIND	Total/NA	Air	40CFR50 App B	115544
570-45678-19	PE-TSP120120-12ADOWNWIND	Total/NA	Air	40CFR50 App B	115544
570-45678-22	PE-TSP120220-B606UPWIND	Total/NA	Air	40CFR50 App B	115544
570-45678-23	PE-TSP120220-12ADOWNWIND	Total/NA	Air	40CFR50 App B	115544
570-45678-26	PE-TSP120320-B606UPWIND	Total/NA	Air	40CFR50 App B	115544
570-45678-27	PE-TSP120320-12ADOWNWIND	Total/NA	Air	40CFR50 App B	115544
570-45678-30	PE-TSP120420-B606UPWIND	Total/NA	Air	40CFR50 App B	115544
570-45678-31	PE-TSP120420-12ADOWNWIND	Total/NA	Air	40CFR50 App B	115544
570-45678-34	PE-TSP120520-B606UPWIND	Total/NA	Air	40CFR50 App B	115544
570-45678-35	PE-TSP120520-12ADOWNWIND	Total/NA	Air	40CFR50 App B	115544
MB 570-115544/1-A	Method Blank	Total/NA	Air	40CFR50 App B	115544
570-45678-14 DU	PE-TSP113020-B606UPWIND	Total/NA	Air	40CFR50 App B	115544

BALANCE CALIBRATION CHECK LOG

Eurofins Calscience

Date performed: 12/01/20 Initials: MM

ID	Class 2 Weight (g)	Reading (g)	Acceptance Range	Pass? (circle one)	Comment (If not passed, note removal or corrective action)
83	1	1.00	0.98 - 1.02	Y N	IO Lab
	100	99.99	98.00 - 102.00	Y N	
62	0.002	0.0018	0.0015 - 0.0025	Y N	IO Lab
	1	0.9991	0.9990 - 1.0010	Y N	
	100	99.999	99.9000 - 100.1000	Y N	
11	1	1.00	0.98 - 1.02	Y N	IO Lab
	100	99.99	98.00 - 102.00	Y N	
55	1	0.99	0.98 - 1.02	Y N	IO Lab
	100	99.88	98.00 - 102.00	Y N	
	500	499.61	490.00 - 510.00	Y N	
86	1	0.99	0.98 - 1.02	Y N	IO Lab
	100	100.00	98.00 - 102.00	Y N	
	500	499.98	490.00 - 510.00	Y N	
71	0.002	0.0022	0.0015 - 0.0025	Y N	BOD Room
	1	0.9992	0.9990 - 1.0010	Y N	
	100	99.9916	99.9000 - 100.1000	Y N	
63	0.1		0.08 - 0.12	Y N	BOD Room
	100		98.00 - 102.00	Y N	
73	0.1	0.09	0.08 - 0.12	Y N	Oil & Grease Room
	1	0.99	0.98 - 1.02	Y N	
	100	99.99	98.00 - 102.00	Y N	
87	0.002	0.0019	0.0015 - 0.0025	Y N	Solids Room
	1	0.9993	0.9990 - 1.0010	Y N	
	100	99.9925	99.9000 - 100.1000	Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

Comments:

WT SET ID USED: 2 mg 1000151861	**COMMENT:**
WT SET ID USED: 10 mg - 100 g 1000013239	
WT SET ID USED: 500 g 69073	

BALANCE CALIBRATION CHECK LOG

Eurofins Calscience

Date performed: 12/11/20 Initials: AAD

ID	Class 2 Weight (g)	Reading (g)	Acceptance Range	Pass? (circle one)	Comment (If not passed, note removal or corrective action)
83	1	1.00	0.98 - 1.02	Y N	IO Lab
	100	99.98	98.00 - 102.00	Y N	
62	0.002	0.0021	0.0015 - 0.0025	Y N	IO Lab
	1	0.9990	0.9990 - 1.0010	Y N	
	100	99.9916	99.9000 - 100.1000	Y N	
11	1	1.00	0.98 - 1.02	Y N	IO Lab
	100	100.00	98.00 - 102.00	Y N	
55	1	1.01	0.98 - 1.02	Y N	IO Lab
	100	99.99	98.00 - 102.00	Y N	
	500	499.99	490.00 - 510.00	Y N	
86	1	0.99	0.98 - 1.02	Y N	IO Lab
	100	99.99	98.00 - 102.00	Y N	
	500	499.99	490.00 - 510.00	Y N	
71	0.002	0.0016	0.0015 - 0.0025	Y N	BOD Room
	1	0.9994	0.9990 - 1.0010	Y N	
	100	99.9916	99.9000 - 100.1000	Y N	
63	0.1		0.08 - 0.12	Y N	BOD Room
	100		98.00 - 102.00	Y N	
73	0.1	0.09	0.08 - 0.12	Y N	Oil & Grease Room
	1	1.00	0.98 - 1.02	Y N	
	100	99.99	98.00 - 102.00	Y N	
87	0.002	0.0017	0.0015 - 0.0025	Y N	Solids Room
	1	0.9992	0.9990 - 1.0010	Y N	
	100	99.9923	99.9000 - 100.1000	Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

Comments:

WT SET ID USED: 2 mg 1000151861	COMMENT:
WT SET ID USED: 10 mg - 100 g 40000013239	
WT SET ID USED: 500 g 69073	

Client Sample ID: PE-TSP113020-B606UPWIND

Lab Sample ID: 570-45678-14
Date Collected: 11/30/20 07:07
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	117478	12/19/20 09:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			118167	12/22/20 09:38	ULPF	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					115544	12/11/20 09:07	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			115547	12/11/20 09:07	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP113020-12ADOWNWIND

Lab Sample ID: 570-45678-15
Date Collected: 11/30/20 07:20
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	117478	12/19/20 09:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			118167	12/22/20 09:47	ULPF	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					115544	12/11/20 09:07	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			115547	12/11/20 09:07	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10113020-B606UPWIND

Lab Sample ID: 570-45678-16
Date Collected: 11/30/20 07:07
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4027 g	4.4401 g	115403	12/10/20 17:45	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10113020-12ADOWNWIND

Lab Sample ID: 570-45678-17
Date Collected: 11/30/20 07:20
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4087 g	4.4324 g	115403	12/10/20 17:45	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP120120-B606UPWIND

Lab Sample ID: 570-45678-18
Date Collected: 12/01/20 07:10
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	117478	12/19/20 09:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			118167	12/22/20 09:50	ULPF	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					115544	12/11/20 09:07	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			115547	12/11/20 09:07	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP120120-12ADOWNWIND
Lab Sample ID: 570-45678-19
Date Collected: 12/01/20 07:20
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	117478	12/19/20 09:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			118167	12/22/20 09:53	ULPF	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					115544	12/11/20 09:07	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			115547	12/11/20 09:07	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10120120-B606UPWIND
Lab Sample ID: 570-45678-20
Date Collected: 12/01/20 07:10
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4123 g	4.4504 g	115403	12/10/20 17:45	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10120120-12ADOWNWIND
Lab Sample ID: 570-45678-21
Date Collected: 12/01/20 07:20
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4218 g	4.4428 g	115403	12/10/20 17:45	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP120220-B606UPWIND
Lab Sample ID: 570-45678-22
Date Collected: 12/02/20 07:05
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	117478	12/19/20 09:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			118167	12/22/20 09:56	ULPF	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					115544	12/11/20 09:07	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			115547	12/11/20 09:07	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP120220-12ADOWNWIND
Lab Sample ID: 570-45678-23
Date Collected: 12/02/20 07:20
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	117478	12/19/20 09:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			118167	12/22/20 09:58	ULPF	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					115544	12/11/20 09:07	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			115547	12/11/20 09:07	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10120220-B606UPWIND
Lab Sample ID: 570-45678-24
Date Collected: 12/02/20 07:05
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4353 g	4.5065 g	115403	12/10/20 17:45	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10120220-12ADOWNWIND
Lab Sample ID: 570-45678-25
Date Collected: 12/02/20 07:20
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4210 g	4.4514 g	115403	12/10/20 17:45	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP120320-B606UPWIND
Lab Sample ID: 570-45678-26
Date Collected: 12/03/20 07:10
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	117478	12/19/20 09:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			118167	12/22/20 10:13	ULPF	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					115544	12/11/20 09:07	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			115547	12/11/20 09:07	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP120320-12ADOWNWIND
Lab Sample ID: 570-45678-27
Date Collected: 12/03/20 07:19
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	117478	12/19/20 09:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			118167	12/22/20 10:16	ULPF	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					115544	12/11/20 09:07	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			115547	12/11/20 09:07	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10120320-B606UPWIND
Lab Sample ID: 570-45678-28
Date Collected: 12/03/20 07:10
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4078 g	4.4679 g	115403	12/10/20 17:45	UWCT	ECL 1
	Instrument ID: BAL62									

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-45678-1

Client Sample ID: PE-PM10120320-12ADOWNWIND
Lab Sample ID: 570-45678-29
Date Collected: 12/03/20 07:19
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4056 g	4.5243 g	115403	12/10/20 17:45	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP120420-B606UPWIND
Lab Sample ID: 570-45678-30
Date Collected: 12/04/20 07:05
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	117478	12/19/20 09:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			118167	12/22/20 10:18	ULPF	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					115544	12/11/20 09:07	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			115547	12/11/20 09:07	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP120420-12ADOWNWIND
Lab Sample ID: 570-45678-31
Date Collected: 12/04/20 07:28
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	117478	12/19/20 09:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			118167	12/22/20 10:21	ULPF	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					115544	12/11/20 09:07	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			115547	12/11/20 09:07	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10120420-B606UPWIND
Lab Sample ID: 570-45678-32
Date Collected: 12/04/20 07:05
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3993 g	4.4882 g	115403	12/10/20 17:45	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10120420-12ADOWNWIND
Lab Sample ID: 570-45678-33
Date Collected: 12/04/20 07:28
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4018 g	4.4713 g	115403	12/10/20 17:45	UWCT	ECL 1
	Instrument ID: BAL62									

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-45678-1

Client Sample ID: PE-TSP120520-B606UPWIND
Lab Sample ID: 570-45678-34
Date Collected: 12/05/20 07:05
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	117478	12/19/20 09:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			118167	12/22/20 10:24	ULPF	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					115544	12/11/20 09:07	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			115547	12/11/20 09:07	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP120520-12ADOWNWIND
Lab Sample ID: 570-45678-35
Date Collected: 12/05/20 07:15
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	117478	12/19/20 09:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			118167	12/22/20 10:27	ULPF	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					115544	12/11/20 09:07	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			115547	12/11/20 09:07	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10120520-B606UPWIND
Lab Sample ID: 570-45678-36
Date Collected: 12/05/20 07:05
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3899 g	4.4213 g	115403	12/10/20 17:45	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10120520-12ADOWNWIND
Lab Sample ID: 570-45678-37
Date Collected: 12/05/20 07:15
Matrix: Air
Date Received: 12/09/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4047 g	4.4238 g	115403	12/10/20 17:45	UWCT	ECL 1
	Instrument ID: BAL62									

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

EMSL = EMSL - LA Testing - Huntington Beach, 5431 Industrial Drive, Huntington Beach, CA 92649

Accreditation/Certification Summary

Client: Aptim Federal Services LLC
Job ID: 570-45678-1
Project/Site: HPNS - Parcel E / 500712

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-30-21
California	SCAQMD LAP	17LA0919	11-30-20 *
California	State	2944	09-30-21
Nevada	State	CA00111	07-31-21
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-45678-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	ECL 1
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	ECL 1
PM10	Particulate Matter	40CFR50J	ECL 1
NIOSH 7400 Rev	NIOSH 7400 Rev. 3	NIOSH	EMSL
3050B	Preparation, Metals	SW846	ECL 1
Filter to Air	Filter to Air volume ratio	None	ECL 1

Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

NIOSH = NIOSH Manual Of Analytical Methods, National Institute For Occupational Safety And Health, 4th Edition, August 1994 and it's Supplements

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

EMSL = EMSL - LA Testing - Huntington Beach, 5431 Industrial Drive, Huntington Beach, CA 92649

Sample Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-45678-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-45678-1	PE-ASB113020-B606UPWIND	Air	11/30/20 07:07	12/09/20 11:35	
570-45678-2	PE-ASB113020-12ADOWNWIND	Air	11/30/20 07:20	12/09/20 11:35	
570-45678-3	PE-ASB120120-B606UPWIND	Air	12/01/20 07:10	12/09/20 11:35	
570-45678-4	PE-ASB120120-12ADOWNWIND	Air	12/01/20 07:20	12/09/20 11:35	
570-45678-5	PE-ASB120220-B606UPWIND	Air	12/02/20 07:05	12/09/20 11:35	
570-45678-6	PE-ASB120220-12ADOWNWIND	Air	12/02/20 07:20	12/09/20 11:35	
570-45678-7	PE-ASB120320-B606UPWIND	Air	12/03/20 07:10	12/09/20 11:35	
570-45678-8	PE-ASB120320-12ADOWNWIND	Air	12/03/20 07:19	12/09/20 11:35	
570-45678-9	PE-ASB120420-B606UPWIND	Air	12/04/20 07:05	12/09/20 11:35	
570-45678-10	PE-ASB120420-12ADOWNWIND	Air	12/04/20 07:28	12/09/20 11:35	
570-45678-11	PE-ASB120520-B606UPWIND	Air	12/05/20 07:05	12/09/20 11:35	
570-45678-12	PE-ASB120520-12ADOWNWIND	Air	12/05/20 07:15	12/09/20 11:35	
570-45678-13	PE-ASB120520-BLANK	Air	12/05/20 07:15	12/09/20 11:35	
570-45678-14	PE-TSP113020-B606UPWIND	Air	11/30/20 07:07	12/09/20 11:35	
570-45678-15	PE-TSP113020-12ADOWNWIND	Air	11/30/20 07:20	12/09/20 11:35	
570-45678-16	PE-PM10113020-B606UPWIND	Air	11/30/20 07:07	12/09/20 11:35	
570-45678-17	PE-PM10113020-12ADOWNWIND	Air	11/30/20 07:20	12/09/20 11:35	
570-45678-18	PE-TSP120120-B606UPWIND	Air	12/01/20 07:10	12/09/20 11:35	
570-45678-19	PE-TSP120120-12ADOWNWIND	Air	12/01/20 07:20	12/09/20 11:35	
570-45678-20	PE-PM10120120-B606UPWIND	Air	12/01/20 07:10	12/09/20 11:35	
570-45678-21	PE-PM10120120-12ADOWNWIND	Air	12/01/20 07:20	12/09/20 11:35	
570-45678-22	PE-TSP120220-B606UPWIND	Air	12/02/20 07:05	12/09/20 11:35	
570-45678-23	PE-TSP120220-12ADOWNWIND	Air	12/02/20 07:20	12/09/20 11:35	
570-45678-24	PE-PM10120220-B606UPWIND	Air	12/02/20 07:05	12/09/20 11:35	
570-45678-25	PE-PM10120220-12ADOWNWIND	Air	12/02/20 07:20	12/09/20 11:35	
570-45678-26	PE-TSP120320-B606UPWIND	Air	12/03/20 07:10	12/09/20 11:35	
570-45678-27	PE-TSP120320-12ADOWNWIND	Air	12/03/20 07:19	12/09/20 11:35	
570-45678-28	PE-PM10120320-B606UPWIND	Air	12/03/20 07:10	12/09/20 11:35	
570-45678-29	PE-PM10120320-12ADOWNWIND	Air	12/03/20 07:19	12/09/20 11:35	
570-45678-30	PE-TSP120420-B606UPWIND	Air	12/04/20 07:05	12/09/20 11:35	
570-45678-31	PE-TSP120420-12ADOWNWIND	Air	12/04/20 07:28	12/09/20 11:35	
570-45678-32	PE-PM10120420-B606UPWIND	Air	12/04/20 07:05	12/09/20 11:35	
570-45678-33	PE-PM10120420-12ADOWNWIND	Air	12/04/20 07:28	12/09/20 11:35	
570-45678-34	PE-TSP120520-B606UPWIND	Air	12/05/20 07:05	12/09/20 11:35	
570-45678-35	PE-TSP120520-12ADOWNWIND	Air	12/05/20 07:15	12/09/20 11:35	
570-45678-36	PE-PM10120520-B606UPWIND	Air	12/05/20 07:05	12/09/20 11:35	
570-45678-37	PE-PM10120520-12ADOWNWIND	Air	12/05/20 07:15	12/09/20 11:35	

LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

http://www.LATesting.com / gardengrovelab@latesting.com

LA Testing Order: 332022829
Customer ID: 32CALS51
Customer PO:
Project ID:

Attention: Terri Chang
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841

Phone: (714) 895-5494
Fax: (714) 894-7501
Received Date: 12/11/2020 12:40 PM
Analysis Date: 12/22/2020
Collected Date: 11/30/2020 - 12/05/2020

Project: 570-45678 HPNS-Parcel E/ 500712

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 3, 6/15/2019

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm²	Fibers/cc	Notes
PE-ASB113020-B606UPWIND (570-45678-1) *332022829-0001*		11/30/2020	2000	7	100	0.0013	8.92	0.0017	
PE-ASB113020-12ADOWNWIND (570-45678-2) *332022829-0002*		11/30/2020	1710	<5.5	100	0.0016	<7.01	<0.0016	
PE-ASB1201250-B606UPWIND (570-45678-3) *332022829-0003*		12/01/2020	1830	<5.5	100	0.0015	<7.01	<0.0015	
PE-ASB120120-12ADOWNWIND (570-45678-4) *332022829-0004*		12/01/2020	1610	<5.5	100	0.0017	<7.01	<0.0017	
PE-ASB120220-B606UPWIND (570-45678-5) *332022829-0005*		12/02/2020	1850	6	100	0.0015	7.64	0.0016	
PE-ASB120220-12ADOWNWIND (570-45678-6) *332022829-0006*		12/02/2020	1520	<5.5	100	0.0018	<7.01	<0.0018	
PE-ASB120320-B606UPWIND (570-45678-7) *332022829-0007*		12/03/2020	1770	<5.5	100	0.0015	<7.01	<0.0015	
PE-ASB120320-12ADOWNWIND (570-45678-8) *332022829-0008*		12/03/2020	1660	<5.5	100	0.0016	<7.01	<0.0016	Sampled pulled for 10% recount.
PE-ASB120420-B606UPWID (570-45678-9) *332022829-0009*		12/04/2020	1910	<5.5	100	0.0014	<7.01	<0.0014	
PE-ASB120420-12ADOWNWIND (570-45678-10) *332022829-0010*		12/04/2020	1610	<5.5	100	0.0017	<7.01	<0.0017	
PE-ASB120520-B606UPWIND (570-45678-11) *332022829-0011*		12/05/2020	1000	<5.5	100	0.0027	<7.01	<0.0027	
PE-ASB120520-12ADOWNWIND (570-45678-12) *332022829-0012*		12/05/2020	900	<5.5	100	0.0030	<7.01	<0.0030	
PE-ASB120520-BLANK (570-45678-13)		12/05/2020		<5.5	100		<7.01		Field Blank

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Limit of detection is 7 fibers/mm². Fiber counts outside the recommended fiber density range of the method (100-1300 f/mm2) have greater than optimal variability and are probably biased. Field blank results, when available, are used to blank correct results. NIOSH 7400 requires field blanks be submitted at a rate of 10%, with a minimum of 2 per set. Measurement of uncertainty available upon request. The results in this report meet all requirements of the NELAC standards unless otherwise noted.
Intra-laboratory Sr values: 5-20 fibers = 0.35, 21-50 fibers = 0.24, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.34.
Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--IHLAP Accredited #101650

Initial report from: 12/22/2020 12:28 PM

LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

http://www.LATesting.com / gardengrovelab@latesting.com

LA Testing Order: 332022829
Customer ID: 32CALS51
Customer PO:
Project ID:

Attention: Terri Chang
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841

Phone: (714) 895-5494
Fax: (714) 894-7501
Received Date: 12/11/2020 12:40 PM
Analysis Date: 12/22/2020
Collected Date: 11/30/2020 - 12/05/2020

Project: 570-45678 HPNS-Parcel E/ 500712

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 3, 6/15/2019

Sample	*Location*	*Sample Date*	*Volume (L)*	*Fibers*	*Fields*	*LOD (fib/cc)*	*Fibers/mm²*	*Fibers/cc*	*Notes*
332022829-0013									
PE-ASB120320-12ADOW NWIND (570-45678-8)			1660	<5.5	100	0.0016	<7.01	<0.0016	10% Recount; Individual-CV=0.28
332022829-0014									

The results reported have been blank corrected as applicable.

Analyst(s):
Dennies Ly PCM 14

Michael Chapman, Laboratory Manager
or other Approved Signatory

Initial report from: 12/22/2020 12:28 PM

45678

APTIM

570-45678 Chain of Custody

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 037

Page 1 of 2

APTIM Federal Services, LLC
4005 Port Chicago Hwy
Concord, CA 94520

Project Manager: *Nels Johnson*
Send Report To: *Edgar Ruiz*
Phone/Fax Number: *805.680.8279*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
edgar.ruiz@aptim.com

Sampler's Name(s): ER

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 115718
Lab Destination: Eurofins-Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Analyses Requested

	Sample ID Number	Filter No.	Date	Time	Method	Matrix	# of containers	Container Type	PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOSH 7300/6010B)	Flow Rate (L/min.)	Sample Volume (m^3)			
1	PE-ASB113020-B606UPWIND	CX133455	11/30/20	7:07	G	A	1	PCM			X			2.00	2.00			
2	PE-ASB113020-12ADOWNWIND	CX133454	11/30/20	7:20	G	A	1	PCM			X			2.00	1.71			
3	PE-ASB120120-B606UPWIND	CX744220	12/01/20	7:10	G	A	1	PCM			X			2.00	1.83			
4	PE-ASB120120-12ADOWNWIND	CX133458	12/01/20	7:20	G	A	1	PCM			X			2.00	1.61			
5	PE-ASB120220-B606UPWIND	CX744208	12/02/20	7:05	G	A	1	PCM			X			2.00	1.85			
6	PE-ASB120220-12ADOWNWIND	CX744322	12/02/20	7:20	G	A	1	PCM			X			2.00	1.52			
7	PE-ASB120320-B606UPWIND	CX744189	12/03/20	7:10	G	A	1	PCM			X			2.00	1.77			
8	PE-ASB120320-12ADOWNWIND	CX744222	12/03/20	7:19	G	A	1	PCM			X			2.00	1.66			
9	PE-ASB120420-B606UPWIND	CX744209	12/04/20	7:05	G	A	1	PCM			X			2.00	1.91			
10	PE-ASB120420-12ADOWNWIND	CX744211	12/04/20	7:28	G	A	1	PCM			X			2.00	1.61			
11	PE-ASB120520-B606UPWIND	CX844195	12/05/20	7:05	G	A	1	PCM			X			2.00	0.97			
12	PE-ASB120520-12ADOWNWIND	CX742983	12/05/20	7:15	G	A	1	PCM			X			2.00	0.94			
13	PE-ASB120520-BLANK	CX744280	12/05/20	7:15	G	A	1	PCM			X			NA				
	Temperature Blank																	x

Special Instructions: J to MDL

Turn Around Time: ☐ 24-hr ☐ 5-day ☑ 10-day

Level Of QC Required: I **II** III Project Specific:

Relinquished By	Date	Time	Received By	Date	Time
Edgar Ruiz (signature)	12/05/20	1530	Lock & Storage	12/05/20	1530
Lock & Storage	12/08/20	08:00	Edgar Ruiz (signature)	12/08/20	08:00
Edgar Ruiz (signature)	12/08/20	1100	Mark Valentini	12/08/20	1100
[illegible] to GSO	12/8/20	1630	[signature]	12/9/20	11:35

Method Codes
C = Composite
G = Grab

Matrix Codes
SO = Soil
DW = Drinking Water
SL = Sludge
GW = Ground Water
CP = Chip Samples
WW = Waste Water
A=Air

ABS=Asbestos, PO=Pipe Openning

12/22/2020

45678

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 037

Page 2 of 2

APTIM Federal Services, LLC
4005 Port Chicago Hwy
Concord, CA 94520

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *8056808279*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
edgar.ruiz@aptim.com

Sampler's Name(s): ER

	Sample ID Number	Lot No.	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	Analyses Requested: PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOS	Flow Rate (L/min.)	Sample Volume (m^3)
14	PE-TSP113020-B606UPWIND	Q0401638	11/30/20	7:07	G	A	1	8X10 EPM Whatman					X	1132.8	977.6
15	PE-TSP113020-12ADOWNWIND	Q0401640	11/30/20	7:20	G	A	1	8X10 EPM Whatman					X	1132.8	974.2
16	PE-PM10113020-B606UPWIND	Q0401639	11/30/20	7:07	G	A	1	8X10 EPM Whatman				X		1104.5	953.2
17	PE-PM10113020-12ADOWNWIND	Q0401641	11/30/20	7:20	G	A	1	8X10 EPM Whatman				X		1132.8	974.2
18	PE-TSP120120-B606UPWIND	Q0401658	12/01/20	7:10	G	A	1	8X10 EPM Whatman					X	1132.8	1076.2
19	PE-TSP120120-12ADOWNWIND	Q0401652	12/01/20	7:20	G	A	1	8X10 EPM Whatman					X	1132.8	1076.2
20	PE-PM10120120-B606UPWIND	Q0401659	12/01/20	7:10	G	A	1	8X10 EPM Whatman				X		1132.8	1076.2
21	PE-PM10120120-12ADOWNWIND	Q0401653	12/01/20	7:20	G	A	1	8X10 EPM Whatman				X		1132.8	1076.2
22	PE-TSP120220-B606UPWIND	Q0401654	12/02/20	7:05	G	A	1	8X10 EPM Whatman					X	1132.8	1081.8
23	PE-TSP120220-12ADOWNWIND	Q0401656	12/02/20	7:20	G	A	1	8X10 EPM Whatman					X	1132.8	1076.2
24	PE-PM10120220-B606UPWIND	Q0401655	12/02/20	7:05	G	A	1	8X10 EPM Whatman				X		1132.8	1081.8
25	PE-PM10120220-12ADOWNWIND	Q0401657	12/02/20	7:20	G	A	1	8X10 EPM Whatman				X		1132.8	1076.2
26	PE-TSP120320-B606UPWIND	Q0401663	12/03/20	7:10	G	A	1	8X10 EPM Whatman					X	1132.8	1127.1
27	PE-TSP120320-12ADOWNWIND	Q0401666	12/03/20	7:19	G	A	1	8X10 EPM Whatman					X	1132.8	1128.3
28	PE-PM10120320-B606UPWIND	Q0401665	12/03/20	7:10	G	A	1	8X10 EPM Whatman				X		1118.6	1113.0
29	PE-PM10120320-12ADOWNWIND	Q0401667	12/03/20	7:19	G	A	1	8X10 EPM Whatman				X		1132.8	1128.3
30	PE-TSP120420-B606UPWIND	Q0401672	12/04/20	7:05	G	A	1	8X10 EPM Whatman					X	1132.8	1138.5
31	PE-TSP120420-12ADOWNWIND	Q0401670	12/04/20	7:28	G	A	1	8X10 EPM Whatman					X	1132.8	1123.7
32	PE-PM10120420-B606UPWIND	Q0401673	12/04/20	7:05	G	A	1	8X10 EPM Whatman				X		1104.5	1110.0
33	PE-PM10120420-12ADOWNWIND	Q0401671	12/04/20	7:28	G	A	1	8X10 EPM Whatman				X		1132.8	1123.7
34	PE-TSP120520-B606UPWIND	Q0401678	12/05/20	7:05	G	A	1	8X10 EPM Whatman					X	1132.8	548.3
35	PE-TSP120520-12ADOWNWIND	Q0401680	12/05/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.8	530.2
36	PE-PM10120520-B606UPWIND	Q0401679	12/05/20	7:05	G	A	1	8X10 EPM Whatman				X		1104.5	534.6
37	PE-PM10120520-12ADOWNWIND	Q0401681	12/05/20	7:15	G	A	1	8X10 EPM Whatman				X		1189.4	556.7

12/22/2020

AIR MONITORING LOG

PROJECT NAME: HPNS Parcel E PROJ. NO. 500712 Asbestos TSP PM-10

STATION COC# 037

SAMPLE NO. PE-ASB113020-B606UPWIND 11/30/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX133455	2.000	2.000	2.000	11/30/20 07:07	11/30/20 23:49	1002	2.00	Asbestos	2.00

SAMPLE NO. PE-ASB113020-12ADOWNWIND 11/30/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX133454	2.000	2.000	2.000	11/30/20 07:20	11/30/20 21:34	854	1.71	Asbestos	2.00

SAMPLE NO. PE-ASB120120-B606UPWIND 12/1/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX744220	2.000	2.000	2.000	12/01/20 07:10	12/01/20 22:27	917	1.83	Asbestos	2.00

SAMPLE NO. PE-ASB120120-12ADOWNWIND 12/1/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX133458	2.000	2.000	2.000	12/01/20 07:20	12/01/20 20:45	805	1.61	Asbestos	2.00

SAMPLE NO. PE-ASB120220-B606UPWIND 12/2/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX744208	2.000	2.000	2.000	12/02/20 07:05	12/02/20 22:28	923	1.85	Asbestos	2.00

SAMPLE NO. PE-ASB120220-12ADOWNWIND 12/2/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX744322	2.000	2.000	2.000	12/02/20 07:20	12/02/20 19:58	758	1.52	Asbestos	2.00

SAMPLE NO. PE-ASB120320-B606UPWIND 12/3/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX744189	2.000	2.000	2.000	12/03/20 07:10	12/03/20 21:56	886	1.77	Asbestos	2.00

SAMPLE NO. PE-ASB120320-12ADOWNWIND 12/3/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX744222	2.000	2.000	2.000	12/03/20 07:19	12/03/20 21:08	829	1.66	Asbestos	2.00

87954

SAMPLE NO. PE-ASB120420-B606UPWIND 12/4/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX744209	2.000	2.000	2.000	12/04/20 07:05	12/04/20 22:59	954	1.91	Asbestos	2.00

SAMPLE NO. PE-ASB120420-12ADOWNWIND 12/4/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX744211	2.000	2.000	2.0	12/04/20 07:28	12/04/20 20:54	806	1.61	Asbestos	2.00

SAMPLE NO. PE-ASB120520-B606UPWIND 12/5/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX844195	2.000	2.000	2.0	12/05/20 07:05	12/05/20 15:09	484	1.0	Asbestos	2.00

SAMPLE NO. PE-ASB120520-12ADOWNWIND 12/5/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX742983	2.000	2.000	2.0	12/05/20 07:15	12/05/20 15:03	468	0.9	Asbestos	2.00

PROJECT NAME: HPNS Parcel E PROJ. NO. 500712 Asbestos TSP PM-10

STATION COC# 037

SAMPLE NO. PE-TSP113020-B606UPWIND 11/30/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401638	40.0	40.0	40.0	11/30/20 07:07	11/30/20 21:30	863	977.6	TSP	1132.80

SAMPLE NO. PE-TSP113020-12ADOWNWIND 11/30/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401640	40.0	40.0	40.0	11/30/20 07:20	11/30/20 21:40	860	974.2	TSP	1132.80

SAMPLE NO. PE-PM10113020-B606UPWIND 11/30/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401639	39.0	39.0	39.0	11/30/20 07:07	11/30/20 21:30	863	953.2	PM-10	1104.48

SAMPLE NO. PE-PM10113020-12ADOWNWIND 11/30/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401641	40.0	40.0	40.0	11/30/20 07:20	11/30/20 21:40	860	974.2	PM-10	1132.80

SAMPLE NO. PE-TSP120120-B606UPWIND 12/1/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401658	40.0	40.0	40.0	12/01/20 07:10	12/01/20 23:00	950	1076.2	TSP	1132.80

SAMPLE NO. PE-TSP120120-12ADOWNWIND 12/1/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401652	40.0	40.0	40.0	12/01/20 07:20	12/01/20 23:10	950	1076.2	TSP	1132.80

SAMPLE NO. PE-PM10120120-B606UPWIND 12/1/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401659	40.0	40.0	40.0	12/01/20 07:10	12/01/20 23:00	950	1076.2	PM-10	1132.80

SAMPLE NO. PE-PM10120120-12ADOWNWIND 12/1/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401653	40.0	40.0	40.0	12/01/20 07:20	12/01/20 23:10	950	1076.2	PM-10	1132.80

SAMPLE NO. **PE-TSP120220-B606UPWIND** 12/2/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401654	40.0	40.0	40.0	12/02/20 07:05	12/02/20 23:00	955	1081.8	TSP	1132.80

SAMPLE NO. **PE-TSP120220-12ADOWNWIND** 12/2/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401656	40.0	40.0	40.0	12/02/20 07:20	12/02/20 23:10	950	1076.2	TSP	1132.80

SAMPLE NO. **PE-PM10120220-B606UPWIND** 12/2/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401655	40.0	40.0	40.0	12/02/20 07:05	12/02/20 23:00	955	1081.8	PM-10	1132.80

SAMPLE NO. **PE-PM10120220-12ADOWNWIND** 12/2/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401657	40.0	40.0	40.0	12/02/20 07:20	12/02/20 23:10	950	1076.2	PM-10	1132.80

SAMPLE NO. **PE-TSP120320-B606UPWIND** 12/3/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401663	40.0	40.0	40.0	12/03/20 07:10	12/03/20 23:45	995	1127.1	TSP	1132.80

SAMPLE NO. **PE-TSP120320-12ADOWNWIND** 12/3/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401666	40.0	40.0	40.0	12/03/20 07:19	12/03/20 23:55	996	1128.3	TSP	1132.80

SAMPLE NO. **PE-PM10120320-B606UPWIND** 12/3/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401665	39.0	40.0	39.5	12/03/20 07:10	12/03/20 23:45	995	1113.0	PM-10	1118.64

SAMPLE NO. **PE-PM10120320-12ADOWNWIND** 12/3/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401667	40.0	40.0	40.0	12/03/20 07:19	12/03/20 23:55	996	1128.3	PM-10	1132.80

SAMPLE NO. **PE-TSP120420-B606UPWIND** 12/4/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				

Q0401672	40.0	40.0	40.0	12/04/20 07:05	12/04/20 23:50	1005	1138.5	TSP	1132.80

SAMPLE NO. **PE-TSP120420-12ADOWNWIND** 12/4/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401670	40.0	40.0	40.0	12/04/20 07:28	12/05/20 00:00	992	1123.7	TSP	1132.80

SAMPLE NO. **PE-PM10120420-B606UPWIND** 12/4/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401673	39.0	39.0	39.0	12/04/20 07:05	12/04/20 23:50	1005	1110.0	PM-10	1104.48

SAMPLE NO. **PE-PM10120420-12ADOWNWIND** 12/4/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401671	40.0	40.0	40.0	12/04/20 07:28	12/05/20 00:00	992	1123.7	PM-10	1132.80

45678

GLS

570-45678 Waybill

Ship From
EUROFINS CALSCIENCE, INC
ALAN KEMP
5063 COMMERCIAL CIRCLE
H
CONCORD, CA 94520

Ship To
CEL
SAMPLE RECEIVING
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD: $0.00
Weight: 0 lb(s)
Reference:
APTIM
Delivery Instructions:

Signature Type: STANDARD

Tracking #: 551457726

NF

GARDEN GROVE

S92841A

32249417

ORC CA927-CL0

Print Date: 12/8/202

1330507

Custody Seal
DATE 12/08/20
SIGNATURE

eurofins
Environment Testing
TestAmerica

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Phone: 714-895-5494 Fax: 714-894-7501

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Chang, Terri	Carrier Tracking No(s):	COC No: 570-68472.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Terri.Chang@eurofinset.com	State of Origin: California	Page: Page 1 of 2
Company: EMSL Analytical, Inc.		Accreditations Required (See note):		Job #: 570-45678-1
Address: 5431 Industrial Drive, ,	Due Date Requested: 12/23/2020			Preservation Codes:
City: Huntington Beach	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
State, Zip: CA, 92649				
Phone:	PO #:			Other:
Email:	WO #:			
Project Name: HPNS - Parcel E / 500712	Project #: ~~57003235~~ 570-45678			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - Low Flow)/ NIOSH 7400	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PE-ASB113020-B606UPWIND (570-45678-1)	11/30/20	07:07 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB113020-12ADOWNWIND (570-45678-2)	11/30/20	07:20 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB120120-B606UPWIND (570-45678-3)	12/1/20	07:10 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB120120-12ADOWNWIND (570-45678-4)	12/1/20	07:20 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB120220-B606UPWIND (570-45678-5)	12/2/20	07:05 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB120220-12ADOWNWIND (570-45678-6)	12/2/20	07:20 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB120320-B606UPWIND (570-45678-7)	12/3/20	07:10 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB120320-12ADOWNWIND (570-45678-8)	12/3/20	07:19 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB120420-B606UPWIND (570-45678-9)	12/4/20	07:05 Pacific		Air			X	1	please provide standard excel EDD.

Note: Since laboratory accreditations are subject to change, Eurofins Calscience places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Calscience.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	12/10/20 1511				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Phone: 714-895-5494 Fax: 714-894-7501

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Chang, Terri	Carrier Tracking No(s):	COC No: 570-68472.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Terri.Chang@eurofinset.com	State of Origin: California	Page: Page 2 of 2
Company: EMSL Analytical, Inc.		Accreditations Required (See note):		Job #: 570-45678-1
Address: 5431 Industrial Drive, ,	Due Date Requested: 12/23/2020			Preservation Codes:
City: Huntington Beach	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: CA, 92649				
Phone:	PO #:			
Email:	WO #:			
Project Name: HPNS - Parcel E / 500712	Project #: ~~57003235~~			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - Low Flow)/ NIOSH 7400	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PE-ASB120420-12ADOWNWIND (570-45678-10)	12/4/20	07:28 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB120520-B606UPWIND (570-45678-11)	12/5/20	07:05 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB120520-12ADOWNWIND (570-45678-12)	12/5/20	07:15 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB120520-BLANK (570-45678-13)	12/5/20	07:15 Pacific		Air			X	1	please provide standard excel EDD.

Note: Since laboratory accreditations are subject to change, Eurofins Calscience places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Calscience.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	12/10/20 1511				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-45678-1

Login Number: 45678
List Number: 1
Creator: Patel, Jayesh

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-46530-1
Client Project/Site: HPNS - Parcel E / 500712

For:
Aptim Federal Services LLC
Hunters Point Shipyard
200 Fisher Blvd
San Francisco, California 94124

Attn: Rose Condit

Terri Chang

Authorized for release by:
1/4/2021 3:24:38 PM

Terri Chang, Project Manager I
(714)895-5494
Terri.Chang@eurofinset.com

Table of Contents

Definitions/Glossary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-46530-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-46530-1

Job ID: 570-46530-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-46530-1

Comments
No additional comments.

Receipt
The samples were received on 12/17/2020 12:00 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 22.0º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Lab Admin
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - Low Flow: This method was subcontracted to EMSL - LA Testing - Huntington Beach. The subcontract laboratory certification is different from that of the facility issuing the final report.

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP120720-B606UPWIND
Date Collected: 12/07/20 06:57
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Lab Sample ID: 570-46530-12
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/30/20 18:00	12/31/20 10:28	1
Lead	**7.15**	**J**	12.0	3.16	ug/Sample		12/30/20 18:00	12/31/20 10:28	1
Manganese	**56.0**		6.00	3.34	ug/Sample		12/30/20 18:00	12/31/20 10:28	1

Client Sample ID: PE-TSP120720-12ADOWNWIND
Date Collected: 12/07/20 07:07
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Lab Sample ID: 570-46530-13
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/30/20 18:00	12/31/20 10:36	1
Lead	**17.3**		12.0	3.16	ug/Sample		12/30/20 18:00	12/31/20 10:36	1
Manganese	**41.3**		6.00	3.34	ug/Sample		12/30/20 18:00	12/31/20 10:36	1

Client Sample ID: PE-TSP120820-B606UPWIND
Date Collected: 12/08/20 07:08
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Lab Sample ID: 570-46530-16
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/30/20 18:00	12/31/20 10:39	1
Lead	**13.3**		12.0	3.16	ug/Sample		12/30/20 18:00	12/31/20 10:39	1
Manganese	**40.9**		6.00	3.34	ug/Sample		12/30/20 18:00	12/31/20 10:39	1

Client Sample ID: PE-TSP120820-12ADOWNWIND
Date Collected: 12/08/20 07:20
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Lab Sample ID: 570-46530-17
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/30/20 18:00	12/31/20 10:42	1
Lead	ND		12.0	3.16	ug/Sample		12/30/20 18:00	12/31/20 10:42	1
Manganese	**25.8**		6.00	3.34	ug/Sample		12/30/20 18:00	12/31/20 10:42	1

Client Sample ID: PE-TSP120920-B606UPWIND
Date Collected: 12/09/20 07:05
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Lab Sample ID: 570-46530-20
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/30/20 18:00	12/31/20 10:45	1
Lead	**19.6**		12.0	3.16	ug/Sample		12/30/20 18:00	12/31/20 10:45	1
Manganese	**65.7**		6.00	3.34	ug/Sample		12/30/20 18:00	12/31/20 10:45	1

Client Sample ID: PE-TSP120920-12ADOWNWIND
Date Collected: 12/09/20 07:15
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Lab Sample ID: 570-46530-21
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/30/20 18:00	12/31/20 10:54	1
Lead	**12.7**		12.0	3.16	ug/Sample		12/30/20 18:00	12/31/20 10:54	1
Manganese	**46.9**		6.00	3.34	ug/Sample		12/30/20 18:00	12/31/20 10:54	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP121020-B606UPWIND
Date Collected: 12/10/20 07:05
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Lab Sample ID: 570-46530-24
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/30/20 18:00	12/31/20 11:05	1
Lead	**7.79**	**J**	12.0	3.16	ug/Sample		12/30/20 18:00	12/31/20 11:05	1
Manganese	**35.4**		6.00	3.34	ug/Sample		12/30/20 18:00	12/31/20 11:05	1

Client Sample ID: PE-TSP121020-12ADOWNWIND
Date Collected: 12/10/20 07:15
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Lab Sample ID: 570-46530-25
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/30/20 18:00	12/31/20 11:08	1
Lead	**5.93**	**J**	12.0	3.16	ug/Sample		12/30/20 18:00	12/31/20 11:08	1
Manganese	**33.3**		6.00	3.34	ug/Sample		12/30/20 18:00	12/31/20 11:08	1

Client Sample ID: PE-TSP121120-B606UPWIND
Date Collected: 12/11/20 07:05
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Lab Sample ID: 570-46530-28
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/30/20 18:00	12/31/20 11:11	1
Lead	ND		12.0	3.16	ug/Sample		12/30/20 18:00	12/31/20 11:11	1
Manganese	**20.4**		6.00	3.34	ug/Sample		12/30/20 18:00	12/31/20 11:11	1

Client Sample ID: PE-TSP121120-12ADOWNWIND
Date Collected: 12/11/20 07:20
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Lab Sample ID: 570-46530-29
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/30/20 18:00	12/31/20 11:14	1
Lead	**17.5**		12.0	3.16	ug/Sample		12/30/20 18:00	12/31/20 11:14	1
Manganese	**114**		6.00	3.34	ug/Sample		12/30/20 18:00	12/31/20 11:14	1

General Chemistry

Client Sample ID: PE-TSP120720-B606UPWIND — **Lab Sample ID: 570-46530-12**
Date Collected: 12/07/20 06:57 — **Matrix: Air**
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	75.8		5.85	5.85	ug/m3			12/22/20 17:28	1

Client Sample ID: PE-TSP120720-12ADOWNWIND — **Lab Sample ID: 570-46530-13**
Date Collected: 12/07/20 07:07 — **Matrix: Air**
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	68.8		5.85	5.85	ug/m3			12/22/20 17:28	1

Client Sample ID: PE-PM10120720-B606UPWIND — **Lab Sample ID: 570-46530-14**
Date Collected: 12/07/20 06:57 — **Matrix: Air**
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	43.1		5.85	5.85	ug/m3			12/22/20 13:07	1

Client Sample ID: PE-PM10120720-12ADOWNWIND — **Lab Sample ID: 570-46530-15**
Date Collected: 12/07/20 07:07 — **Matrix: Air**
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	21.8		5.85	5.85	ug/m3			12/22/20 13:07	1

Client Sample ID: PE-TSP120820-B606UPWIND — **Lab Sample ID: 570-46530-16**
Date Collected: 12/08/20 07:08 — **Matrix: Air**
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	66.3		5.99	5.99	ug/m3			12/22/20 17:28	1

Client Sample ID: PE-TSP120820-12ADOWNWIND — **Lab Sample ID: 570-46530-17**
Date Collected: 12/08/20 07:20 — **Matrix: Air**
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	54.4		6.02	6.02	ug/m3			12/22/20 17:28	1

Client Sample ID: PE-PM10120820-B606UPWIND — **Lab Sample ID: 570-46530-18**
Date Collected: 12/08/20 07:08 — **Matrix: Air**
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	57.5		5.99	5.99	ug/m3			12/22/20 13:07	1

Client Sample ID: PE-PM10120820-12ADOWNWIND — **Lab Sample ID: 570-46530-19**
Date Collected: 12/08/20 07:20 — **Matrix: Air**
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	19.9		6.02	6.02	ug/m3			12/22/20 13:07	1

General Chemistry

Client Sample ID: PE-TSP120920-B606UPWIND
Lab Sample ID: 570-46530-20
Date Collected: 12/09/20 07:05
Matrix: Air
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	147		5.95	5.95	ug/m3			12/22/20 17:28	1

Client Sample ID: PE-TSP120920-12ADOWNWIND
Lab Sample ID: 570-46530-21
Date Collected: 12/09/20 07:15
Matrix: Air
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	116		5.95	5.95	ug/m3			12/22/20 17:28	1

Client Sample ID: PE-PM10120920-B606UPWIND
Lab Sample ID: 570-46530-22
Date Collected: 12/09/20 07:05
Matrix: Air
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	123		5.95	5.95	ug/m3			12/22/20 13:07	1

Client Sample ID: PE-PM10120920-12ADOWNWIND
Lab Sample ID: 570-46530-23
Date Collected: 12/09/20 07:15
Matrix: Air
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	53.8		5.95	5.95	ug/m3			12/22/20 13:07	1

Client Sample ID: PE-TSP121020-B606UPWIND
Lab Sample ID: 570-46530-24
Date Collected: 12/10/20 07:05
Matrix: Air
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	92.6		5.95	5.95	ug/m3			12/22/20 17:28	1

Client Sample ID: PE-TSP121020-12ADOWNWIND
Lab Sample ID: 570-46530-25
Date Collected: 12/10/20 07:15
Matrix: Air
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	93.8		5.95	5.95	ug/m3			12/22/20 17:28	1

Client Sample ID: PE-PM10121020-B606UPWIND
Lab Sample ID: 570-46530-26
Date Collected: 12/10/20 07:05
Matrix: Air
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	61.1		5.95	5.95	ug/m3			12/22/20 13:07	1

Client Sample ID: PE-PM10121020-12ADOWNWIND
Lab Sample ID: 570-46530-27
Date Collected: 12/10/20 07:15
Matrix: Air
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	31.3		5.95	5.95	ug/m3			12/22/20 13:07	1

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-46530-1

General Chemistry

Client Sample ID: PE-TSP121120-B606UPWIND
Date Collected: 12/11/20 07:05
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Lab Sample ID: 570-46530-28
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	35.9		6.09	6.09	ug/m3			12/22/20 17:28	1

Client Sample ID: PE-TSP121120-12ADOWNWIND
Date Collected: 12/11/20 07:20
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Lab Sample ID: 570-46530-29
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	190		6.16	6.16	ug/m3			12/22/20 17:28	1

Client Sample ID: PE-PM10121120-B606UPWIND
Date Collected: 12/11/20 07:05
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Lab Sample ID: 570-46530-30
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	14.8		6.09	6.09	ug/m3			12/22/20 13:07	1

Client Sample ID: PE-PM10121120-12ADOWNWIND
Date Collected: 12/11/20 07:20
Date Received: 12/17/20 12:00
Sample Container: Folder/Filter

Lab Sample ID: 570-46530-31
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	58.7		6.16	6.16	ug/m3			12/22/20 13:07	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-119595/1-A
Matrix: Air
Analysis Batch: 119834

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 119595

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/30/20 18:00	12/31/20 10:19	1
Lead	ND		12.0	3.16	ug/Sample		12/30/20 18:00	12/31/20 10:19	1
Manganese	ND		6.00	3.34	ug/Sample		12/30/20 18:00	12/31/20 10:19	1

Lab Sample ID: LCS 570-119595/2-A
Matrix: Air
Analysis Batch: 119834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 119595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	600	621.1		ug/Sample		103	80 - 120
Lead	600	623.6		ug/Sample		104	80 - 120
Manganese	600	627.3		ug/Sample		105	80 - 120

Lab Sample ID: LCSD 570-119595/3-A
Matrix: Air
Analysis Batch: 119834

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 119595

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	600	619.9		ug/Sample		103	80 - 120	0	20
Lead	600	630.5		ug/Sample		105	80 - 120	1	20
Manganese	600	614.4		ug/Sample		102	80 - 120	2	20

Lab Sample ID: 570-46530-12 MS
Matrix: Air
Analysis Batch: 119834

Client Sample ID: PE-TSP120720-B606UPWIND
Prep Type: Total/NA
Prep Batch: 119595

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		600	632.4		ug/Sample		105	75 - 125
Lead	7.15	J	600	645.0		ug/Sample		106	75 - 125
Manganese	56.0		600	735.7		ug/Sample		113	75 - 125

Lab Sample ID: 570-46530-12 MSD
Matrix: Air
Analysis Batch: 119834

Client Sample ID: PE-TSP120720-B606UPWIND
Prep Type: Total/NA
Prep Batch: 119595

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		600	633.8		ug/Sample		106	75 - 125	0	20
Lead	7.15	J	600	643.9		ug/Sample		106	75 - 125	0	20
Manganese	56.0		600	663.9		ug/Sample		101	75 - 125	10	20

Method: 40CFR50 App B - Suspended Particulate Matter in Ambient Air

Lab Sample ID: MB 570-118251/1-A
Matrix: Air
Analysis Batch: 118255

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	ND		1.23	1.23	ug/m3			12/22/20 17:28	1

Method: 40CFR50 App B - Suspended Particulate Matter in Ambient Air (Continued)

Lab Sample ID: 570-46530-12 DU
Matrix: Air
Analysis Batch: 118255

Client Sample ID: PE-TSP120720-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	75.8			75.80		ug/m3				0	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-118142/1
Matrix: Air
Analysis Batch: 118142

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		1.23	1.23	ug/m3			12/22/20 13:07	1

Lab Sample ID: 570-46530-14 DU
Matrix: Air
Analysis Batch: 118142

Client Sample ID: PE-PM10120720-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	43.1			43.06		ug/m3				0	25

Metals

Prep Batch: 119595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-46530-12	PE-TSP120720-B606UPWIND	Total/NA	Air	3050B	
570-46530-13	PE-TSP120720-12ADOWNWIND	Total/NA	Air	3050B	
570-46530-16	PE-TSP120820-B606UPWIND	Total/NA	Air	3050B	
570-46530-17	PE-TSP120820-12ADOWNWIND	Total/NA	Air	3050B	
570-46530-20	PE-TSP120920-B606UPWIND	Total/NA	Air	3050B	
570-46530-21	PE-TSP120920-12ADOWNWIND	Total/NA	Air	3050B	
570-46530-24	PE-TSP121020-B606UPWIND	Total/NA	Air	3050B	
570-46530-25	PE-TSP121020-12ADOWNWIND	Total/NA	Air	3050B	
570-46530-28	PE-TSP121120-B606UPWIND	Total/NA	Air	3050B	
570-46530-29	PE-TSP121120-12ADOWNWIND	Total/NA	Air	3050B	
MB 570-119595/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-119595/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-119595/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-46530-12 MS	PE-TSP120720-B606UPWIND	Total/NA	Air	3050B	
570-46530-12 MSD	PE-TSP120720-B606UPWIND	Total/NA	Air	3050B	

Analysis Batch: 119834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-46530-12	PE-TSP120720-B606UPWIND	Total/NA	Air	6010B	119595
570-46530-13	PE-TSP120720-12ADOWNWIND	Total/NA	Air	6010B	119595
570-46530-16	PE-TSP120820-B606UPWIND	Total/NA	Air	6010B	119595
570-46530-17	PE-TSP120820-12ADOWNWIND	Total/NA	Air	6010B	119595
570-46530-20	PE-TSP120920-B606UPWIND	Total/NA	Air	6010B	119595
570-46530-21	PE-TSP120920-12ADOWNWIND	Total/NA	Air	6010B	119595
570-46530-24	PE-TSP121020-B606UPWIND	Total/NA	Air	6010B	119595
570-46530-25	PE-TSP121020-12ADOWNWIND	Total/NA	Air	6010B	119595
570-46530-28	PE-TSP121120-B606UPWIND	Total/NA	Air	6010B	119595
570-46530-29	PE-TSP121120-12ADOWNWIND	Total/NA	Air	6010B	119595
MB 570-119595/1-A	Method Blank	Total/NA	Air	6010B	119595
LCS 570-119595/2-A	Lab Control Sample	Total/NA	Air	6010B	119595
LCSD 570-119595/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	119595
570-46530-12 MS	PE-TSP120720-B606UPWIND	Total/NA	Air	6010B	119595
570-46530-12 MSD	PE-TSP120720-B606UPWIND	Total/NA	Air	6010B	119595

General Chemistry

Analysis Batch: 118142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-46530-14	PE-PM10120720-B606UPWIND	Total/NA	Air	PM10	
570-46530-15	PE-PM10120720-12ADOWNWIND	Total/NA	Air	PM10	
570-46530-18	PE-PM10120820-B606UPWIND	Total/NA	Air	PM10	
570-46530-19	PE-PM10120820-12ADOWNWIND	Total/NA	Air	PM10	
570-46530-22	PE-PM10120920-B606UPWIND	Total/NA	Air	PM10	
570-46530-23	PE-PM10120920-12ADOWNWIND	Total/NA	Air	PM10	
570-46530-26	PE-PM10121020-B606UPWIND	Total/NA	Air	PM10	
570-46530-27	PE-PM10121020-12ADOWNWIND	Total/NA	Air	PM10	
570-46530-30	PE-PM10121120-B606UPWIND	Total/NA	Air	PM10	
570-46530-31	PE-PM10121120-12ADOWNWIND	Total/NA	Air	PM10	
MB 570-118142/1	Method Blank	Total/NA	Air	PM10	
570-46530-14 DU	PE-PM10120720-B606UPWIND	Total/NA	Air	PM10	

QC Association Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-46530-1

General Chemistry

Pre Prep Batch: 118251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-46530-12	PE-TSP120720-B606UPWIND	Total/NA	Air	Filter to Air	
570-46530-13	PE-TSP120720-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-46530-16	PE-TSP120820-B606UPWIND	Total/NA	Air	Filter to Air	
570-46530-17	PE-TSP120820-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-46530-20	PE-TSP120920-B606UPWIND	Total/NA	Air	Filter to Air	
570-46530-21	PE-TSP120920-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-46530-24	PE-TSP121020-B606UPWIND	Total/NA	Air	Filter to Air	
570-46530-25	PE-TSP121020-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-46530-28	PE-TSP121120-B606UPWIND	Total/NA	Air	Filter to Air	
570-46530-29	PE-TSP121120-12ADOWNWIND	Total/NA	Air	Filter to Air	
MB 570-118251/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-46530-12 DU	PE-TSP120720-B606UPWIND	Total/NA	Air	Filter to Air	

Analysis Batch: 118255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-46530-12	PE-TSP120720-B606UPWIND	Total/NA	Air	40CFR50 App B	118251
570-46530-13	PE-TSP120720-12ADOWNWIND	Total/NA	Air	40CFR50 App B	118251
570-46530-16	PE-TSP120820-B606UPWIND	Total/NA	Air	40CFR50 App B	118251
570-46530-17	PE-TSP120820-12ADOWNWIND	Total/NA	Air	40CFR50 App B	118251
570-46530-20	PE-TSP120920-B606UPWIND	Total/NA	Air	40CFR50 App B	118251
570-46530-21	PE-TSP120920-12ADOWNWIND	Total/NA	Air	40CFR50 App B	118251
570-46530-24	PE-TSP121020-B606UPWIND	Total/NA	Air	40CFR50 App B	118251
570-46530-25	PE-TSP121020-12ADOWNWIND	Total/NA	Air	40CFR50 App B	118251
570-46530-28	PE-TSP121120-B606UPWIND	Total/NA	Air	40CFR50 App B	118251
570-46530-29	PE-TSP121120-12ADOWNWIND	Total/NA	Air	40CFR50 App B	118251
MB 570-118251/1-A	Method Blank	Total/NA	Air	40CFR50 App B	118251
570-46530-12 DU	PE-TSP120720-B606UPWIND	Total/NA	Air	40CFR50 App B	118251

BALANCE CALIBRATION CHECK LOG

Eurofins Calscience

Date performed: 12/22/20 Initials: AMA

ID	Class 2 Weight (g)	Reading (g)	Acceptance Range	Pass? (circle one)	Comment (If not passed, note removal or corrective action)
83	1	1.00	0.98 - 1.02	Y N	IO Lab
	100	99.99	98.00 - 102.00	Y N	
62	0.002	0.0020	0.0015 - 0.0025	Y N	IO Lab
	1	0.9991	0.9990 - 1.0010	Y N	
	100	99.9915	99.9000 - 100.1000	Y N	
11	1	1.00	0.98 - 1.02	Y N	IO Lab
	100	99.99	98.00 - 102.00	Y N	
55	1	0.99	0.98 - 1.02	Y N	IO Lab
	100	99.98	98.00 - 102.00	Y N	
	500	499.97	490.00 - 510.00	Y N	
86	1	0.99	0.98 - 1.02	Y N	IO Lab
	100	99.99	98.00 - 102.00	Y N	
	500	499.99	490.00 - 510.00	Y N	
71	0.002	0.0016	0.0015 - 0.0025	Y N	BOD Room
	1	0.9991	0.9990 - 1.0010	Y N	
	100	99.9919	99.9000 - 100.1000	Y N	
63	0.1		0.08 - 0.12	Y N	BOD Room
	100		98.00 - 102.00	Y N	
73	0.1	0.10	0.08 - 0.12	Y N	Oil & Grease Room
	1	0.99	0.98 - 1.02	Y N	
	100	99.99	98.00 - 102.00	Y N	
87	0.002	0.0020	0.0015 - 0.0025	Y N	Solids Room
	1	0.9993	0.9990 - 1.0010	Y N	
	100	99.9923	99.9000 - 100.1000	Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

Comments:

WT SET ID USED: 2 mg 1000151861	**COMMENT:**
WT SET ID USED: 10 mg - 100 g 4000013239	
WT SET ID USED: 500 g 69073	

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-46530-1

Client Sample ID: PE-TSP120720-B606UPWIND
Lab Sample ID: 570-46530-12
Date Collected: 12/07/20 06:57
Matrix: Air
Date Received: 12/17/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	119595	12/30/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			119834	12/31/20 10:28	EMS	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					118251	12/22/20 17:28	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			118255	12/22/20 17:28	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP120720-12ADOWNWIND
Lab Sample ID: 570-46530-13
Date Collected: 12/07/20 07:07
Matrix: Air
Date Received: 12/17/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	119595	12/30/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			119834	12/31/20 10:36	EMS	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					118251	12/22/20 17:28	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			118255	12/22/20 17:28	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10120720-B606UPWIND
Lab Sample ID: 570-46530-14
Date Collected: 12/07/20 06:57
Matrix: Air
Date Received: 12/17/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3982 g	4.4203 g	118142	12/22/20 13:07	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10120720-12ADOWNWIND
Lab Sample ID: 570-46530-15
Date Collected: 12/07/20 07:07
Matrix: Air
Date Received: 12/17/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4037 g	4.4149 g	118142	12/22/20 13:07	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP120820-B606UPWIND
Lab Sample ID: 570-46530-16
Date Collected: 12/08/20 07:08
Matrix: Air
Date Received: 12/17/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	119595	12/30/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			119834	12/31/20 10:39	EMS	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					118251	12/22/20 17:28	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			118255	12/22/20 17:28	UWCT	ECL 1
	Instrument ID: BAL62									

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-46530-1

Client Sample ID: PE-TSP120820-12ADOWNWIND
Lab Sample ID: 570-46530-17
Date Collected: 12/08/20 07:20
Matrix: Air
Date Received: 12/17/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	119595	12/30/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			119834	12/31/20 10:42	EMS	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					118251	12/22/20 17:28	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			118255	12/22/20 17:28	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10120820-B606UPWIND
Lab Sample ID: 570-46530-18
Date Collected: 12/08/20 07:08
Matrix: Air
Date Received: 12/17/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4228 g	4.4516 g	118142	12/22/20 13:07	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10120820-12ADOWNWIND
Lab Sample ID: 570-46530-19
Date Collected: 12/08/20 07:20
Matrix: Air
Date Received: 12/17/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3565 g	4.3664 g	118142	12/22/20 13:07	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP120920-B606UPWIND
Lab Sample ID: 570-46530-20
Date Collected: 12/09/20 07:05
Matrix: Air
Date Received: 12/17/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	119595	12/30/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			119834	12/31/20 10:45	EMS	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					118251	12/22/20 17:28	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			118255	12/22/20 17:28	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP120920-12ADOWNWIND
Lab Sample ID: 570-46530-21
Date Collected: 12/09/20 07:15
Matrix: Air
Date Received: 12/17/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	119595	12/30/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			119834	12/31/20 10:54	EMS	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					118251	12/22/20 17:28	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			118255	12/22/20 17:28	UWCT	ECL 1
	Instrument ID: BAL62									

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-46530-1

Client Sample ID: PE-PM10120920-B606UPWIND
Lab Sample ID: 570-46530-22
Date Collected: 12/09/20 07:05
Matrix: Air
Date Received: 12/17/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3761 g	4.4382 g	118142	12/22/20 13:07	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10120920-12ADOWNWIND
Lab Sample ID: 570-46530-23
Date Collected: 12/09/20 07:15
Matrix: Air
Date Received: 12/17/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3910 g	4.4181 g	118142	12/22/20 13:07	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP121020-B606UPWIND
Lab Sample ID: 570-46530-24
Date Collected: 12/10/20 07:05
Matrix: Air
Date Received: 12/17/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	119595	12/30/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			119834	12/31/20 11:05	EMS	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					118251	12/22/20 17:28	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			118255	12/22/20 17:28	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP121020-12ADOWNWIND
Lab Sample ID: 570-46530-25
Date Collected: 12/10/20 07:15
Matrix: Air
Date Received: 12/17/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	119595	12/30/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			119834	12/31/20 11:08	EMS	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					118251	12/22/20 17:28	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			118255	12/22/20 17:28	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10121020-B606UPWIND
Lab Sample ID: 570-46530-26
Date Collected: 12/10/20 07:05
Matrix: Air
Date Received: 12/17/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3843 g	4.4151 g	118142	12/22/20 13:07	UWCT	ECL 1
	Instrument ID: BAL62									

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-46530-1

Client Sample ID: PE-PM10121020-12ADOWNWIND
Lab Sample ID: 570-46530-27
Date Collected: 12/10/20 07:15
Matrix: Air
Date Received: 12/17/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4105 g	4.4263 g	118142	12/22/20 13:07	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP121120-B606UPWIND
Lab Sample ID: 570-46530-28
Date Collected: 12/11/20 07:05
Matrix: Air
Date Received: 12/17/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	119595	12/30/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			119834	12/31/20 11:11	EMS	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					118251	12/22/20 17:28	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			118255	12/22/20 17:28	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP121120-12ADOWNWIND
Lab Sample ID: 570-46530-29
Date Collected: 12/11/20 07:20
Matrix: Air
Date Received: 12/17/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	119595	12/30/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			119834	12/31/20 11:14	EMS	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					118251	12/22/20 17:28	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			118255	12/22/20 17:28	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10121120-B606UPWIND
Lab Sample ID: 570-46530-30
Date Collected: 12/11/20 07:05
Matrix: Air
Date Received: 12/17/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3850 g	4.3923 g	118142	12/22/20 13:07	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10121120-12ADOWNWIND
Lab Sample ID: 570-46530-31
Date Collected: 12/11/20 07:20
Matrix: Air
Date Received: 12/17/20 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3990 g	4.4276 g	118142	12/22/20 13:07	UWCT	ECL 1
	Instrument ID: BAL62									

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

EMSL = EMSL - LA Testing - Huntington Beach, 5431 Industrial Drive, Huntington Beach, CA 92649

Accreditation/Certification Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-46530-1

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-30-21
California	SCAQMD LAP	17LA0919	11-30-21
California	State	2944	09-30-21
Guam	State	20-003R	10-31-20 *
Nevada	State	CA00111	07-31-21
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-46530-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	ECL 1
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	ECL 1
PM10	Particulate Matter	40CFR50J	ECL 1
NIOSH 7400 Rev	NIOSH 7400 Rev. 3	NIOSH	EMSL
3050B	Preparation, Metals	SW846	ECL 1
Filter to Air	Filter to Air volume ratio	None	ECL 1

Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

NIOSH = NIOSH Manual Of Analytical Methods, National Institute For Occupational Safety And Health, 4th Edition, August 1994 and it's Supplements

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

EMSL = EMSL - LA Testing - Huntington Beach, 5431 Industrial Drive, Huntington Beach, CA 92649

Sample Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-46530-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-46530-1	PE-ASB120720-B606UPWIND	Air	12/07/20 06:57	12/17/20 12:00	
570-46530-2	PE-ASB120720-12ADOWNWIND	Air	12/07/20 07:07	12/17/20 12:00	
570-46530-3	PE-ASB120820-B606UPWIND	Air	12/08/20 07:08	12/17/20 12:00	
570-46530-4	PE-ASB120820-12ADOWNWIND	Air	12/08/20 07:20	12/17/20 12:00	
570-46530-5	PE-ASB120920-B606UPWIND	Air	12/09/20 07:05	12/17/20 12:00	
570-46530-6	PE-ASB120920-12ADOWNWIND	Air	12/09/20 07:15	12/17/20 12:00	
570-46530-7	PE-ASB121020-B606UPWIND	Air	12/10/20 07:05	12/17/20 12:00	
570-46530-8	PE-ASB121020-12ADOWNWIND	Air	12/10/20 07:15	12/17/20 12:00	
570-46530-9	PE-ASB121120-B606UPWIND	Air	12/11/20 07:05	12/17/20 12:00	
570-46530-10	PE-ASB121120-12ADOWNWIND	Air	12/11/20 07:20	12/17/20 12:00	
570-46530-11	PE-ASB121120-BLANK	Air	12/11/20 07:05	12/17/20 12:00	
570-46530-12	PE-TSP120720-B606UPWIND	Air	12/07/20 06:57	12/17/20 12:00	
570-46530-13	PE-TSP120720-12ADOWNWIND	Air	12/07/20 07:07	12/17/20 12:00	
570-46530-14	PE-PM10120720-B606UPWIND	Air	12/07/20 06:57	12/17/20 12:00	
570-46530-15	PE-PM10120720-12ADOWNWIND	Air	12/07/20 07:07	12/17/20 12:00	
570-46530-16	PE-TSP120820-B606UPWIND	Air	12/08/20 07:08	12/17/20 12:00	
570-46530-17	PE-TSP120820-12ADOWNWIND	Air	12/08/20 07:20	12/17/20 12:00	
570-46530-18	PE-PM10120820-B606UPWIND	Air	12/08/20 07:08	12/17/20 12:00	
570-46530-19	PE-PM10120820-12ADOWNWIND	Air	12/08/20 07:20	12/17/20 12:00	
570-46530-20	PE-TSP120920-B606UPWIND	Air	12/09/20 07:05	12/17/20 12:00	
570-46530-21	PE-TSP120920-12ADOWNWIND	Air	12/09/20 07:15	12/17/20 12:00	
570-46530-22	PE-PM10120920-B606UPWIND	Air	12/09/20 07:05	12/17/20 12:00	
570-46530-23	PE-PM10120920-12ADOWNWIND	Air	12/09/20 07:15	12/17/20 12:00	
570-46530-24	PE-TSP121020-B606UPWIND	Air	12/10/20 07:05	12/17/20 12:00	
570-46530-25	PE-TSP121020-12ADOWNWIND	Air	12/10/20 07:15	12/17/20 12:00	
570-46530-26	PE-PM10121020-B606UPWIND	Air	12/10/20 07:05	12/17/20 12:00	
570-46530-27	PE-PM10121020-12ADOWNWIND	Air	12/10/20 07:15	12/17/20 12:00	
570-46530-28	PE-TSP121120-B606UPWIND	Air	12/11/20 07:05	12/17/20 12:00	
570-46530-29	PE-TSP121120-12ADOWNWIND	Air	12/11/20 07:20	12/17/20 12:00	
570-46530-30	PE-PM10121120-B606UPWIND	Air	12/11/20 07:05	12/17/20 12:00	
570-46530-31	PE-PM10121120-12ADOWNWIND	Air	12/11/20 07:20	12/17/20 12:00	

LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

http://www.LATesting.com / gardengrovelab@latesting.com

LA Testing Order: 332023136
Customer ID: 32CALS51
Customer PO:
Project ID:

Attention: Terri Chang
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841

Phone: (714) 895-5494
Fax: (714) 894-7501
Received Date: 12/18/2020 12:40 PM
Analysis Date: 12/29/2020
Collected Date: 12/07/2020 - 12/11/2020

Project: 570-46530 HPNS Parcel E/500712

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 3, 6/15/2019

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm²	Fibers/cc	Notes
PE-ASB120720-B606UPW IND (570-46530-1) *332023136-0001*		12/07/2020	1730	6	100	0.0016	7.64	0.0017	
PE-ASB120720-12ADOW NWIND (570-46530-2) *332023136-0002*		12/07/2020	1550	6.5	100	0.0017	8.28	0.0021	
PE-ASB120820-B606UPW IND (570-46530-3) *332023136-0003*		12/08/2020	1710	7.5	100	0.0016	9.55	0.0022	
PE-ASB120820-12ADOW NWIND (570-46530-4) *332023136-0004*		12/08/2020	1700	7.5	100	0.0016	9.55	0.0022	
PE-ASB120920-B606UPW IND (570-46530-5) *332023136-0005*		12/09/2020	1720	<5.5	100	0.0016	<7.01	<0.0016	
PE-ASB120920-12ADOW NWIND (570-46530-6) *332023136-0006*		12/09/2020	1450	7	100	0.0019	8.92	0.0024	Sample pulled for 10% recount.
PE-ASB121020-B606UPW IND (570-46530-7) *332023136-0007*		12/10/2020	1860	<5.5	100	0.0014	<7.01	<0.0014	
PE-ASB121020-12ADOW NWIND (570-46530-8) *332023136-0008*		12/10/2020	1450	<5.5	100	0.0019	<7.01	<0.0019	
PE-ASB121120-B606UPW IND (570-46530-9) *332023136-0009*		12/11/2020	870	8.5	100	0.0031	10.8	0.0048	
PE-ASB121120-12ADOW NWIND (570-46530-10) *332023136-0010*		12/11/2020	860	<5.5	100	0.0031	<7.01	<0.0031	
PE-ASB121120-BLANK (570-46530-11) *332023136-0011*		12/11/2020		<5.5	100		<7.01		Field Blank
PE-ASB120920-12ADOW NWIND (570-46530-6) *332023136-0012*		12/09/2020	1450	<5.5	100	0.0019	<7.01	<0.0019	10% Recount; Individual-CV=0.28

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Limit of detection is 7 fibers/mm². Fiber counts outside the recommended fiber density range of the method (100-1300 f/mm2) have greater than optimal variability and are probably biased. Field blank results, when available, are used to blank correct results. NIOSH 7400 requires field blanks be submitted at a rate of 10%, with a minimum of 2 per set. Measurement of uncertainty available upon request. The results in this report meet all requirements of the NELAC standards unless otherwise noted.
Intra-laboratory Sr values: 5-20 fibers = 0.35, 21-50 fibers = 0.24, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.34.
Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--IHLAP Accredited #101650

Initial report from: 12/29/2020 03:26 PM

LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

http://www.LATesting.com / gardengrovelab@latesting.com

LA Testing Order: 332023136
Customer ID: 32CALS51
Customer PO:
Project ID:

Attention: Terri Chang
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841

Phone: (714) 895-5494
Fax: (714) 894-7501
Received Date: 12/18/2020 12:40 PM
Analysis Date: 12/29/2020
Collected Date: 12/07/2020 - 12/11/2020

Project: 570-46530 HPNS Parcel E/500712

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 3, 6/15/2019

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm²	Fibers/cc	Notes

The results reported have been blank corrected as applicable.

Analyst(s):
Dennies Ly PCM 12

Michael Chapman, Laboratory Manager
or other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Limit of detection is 7 fibers/mm². Fiber counts outside the recommended fiber density range of the method (100-1300 f/mm2) have greater than optimal variability and are probably biased. Field blank results, when available, are used to blank correct results. NIOSH 7400 requires field blanks be submitted at a rate of 10%, with a minimum of 2 per set. Measurement of uncertainty available upon request. The results in this report meet all requirements of the NELAC standards unless otherwise noted.
Intra-laboratory Sr values: 5-20 fibers = 0.35, 21-50 fibers = 0.24, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.34.
Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--IHLAP Accredited #101650

Initial report from: 12/29/2020 03:26 PM

570-46530 Chain of Custody

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 038

Page 1 of 2

APTIM Federal Services, LLC
4005 Port Chicago Hwy
Concord, CA 94520

Project Manager: *Nels Johnson*
Send Report To: *Edgar Ruiz*
Phone/Fax Number: *805 680 8279*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
edgar ruiz@aptim.com

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 115718
Lab Destination: Eurofins-Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Sampler's Name(s): ER

	Sample ID Number	Filter No.	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	Analyses Requested: PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOSH 7300/6010B)	Flow Rate (L/min)	Sample Volume (m^3)			
1	PE-ASB120720-B606UPWIND	CX744203	12/07/20	6 57	G	A	1	PCM			X			2.00	1.73			
2	PE-ASB120720-12ADOWNWIND	CX744217	12/07/20	7 07	G	A	1	PCM			X			2.00	1.55			
3	PE-ASB120820-B606UPWIND	CX744202	12/08/20	7 08	G	A	1	PCM			X			2.00	1.71			
4	PE-ASB120820-12ADOWNWIND	CX744241	12/08/20	7 20	G	A	1	PCM			X			2.00	1.70			
5	PE-ASB120920-B606UPWIND	CX744338	12/09/20	7 05	G	A	1	PCM			X			2.00	1.72			
6	PE-ASB120920-12ADOWNWIND	CX742984	12/09/20	7 15	G	A	1	PCM			X			2.00	1.45			
7	PE-ASB121020-B606UPWIND	CX744201	12/10/20	7 05	G	A	1	PCM			X			2.00	1.86			
8	PE-ASB121020-12ADOWNWIND	CX744213	12/10/20	7 15	G	A	1	PCM			X			2.00	1.45			
9	PE-ASB121120-B606UPWIND	CX744228	12/11/20	7 05	G	A	1	PCM			X			2.00	0.87			
10	PE-ASB121120-12ADOWNWIND	CX744187	12/11/20	7 20	G	A	1	PCM			X			2.00	0.86			
11	PE-ASB121120-BLANK	CX744184	12/11/20	7 05	G	A	1	PCM			X			NA				
	Temperature Blank																	x

Special Instructions: J to MDL

Turn Around Time: ☐ 24-hr ☐ 5-day ☑ 10-day

Level Of QC Required: I | II | III Project Specific

Relinquished By: Edgar Ruiz	Date: 12/11/20 Time: 1530	Received By: Lock & storage	Date: 12/11/20 Time: 1530
Relinquished By: Lock & Storage	Date: 12/16/20 Time: 08:30	Received By: Edgar Ruiz	Date: 12/16/20 Time: 08:30
Relinquished By: Edgar Ruiz	Date: 12/16/20 Time: 1630	Received By:	Date: 12/16/20 Time: 0830
Relinquished By: to 680	Date: 12/16/20 Time: 1630	Received By:	Date: 12/17/2020 Time: 12:00

Method Codes
C = Composite
G = Grab

Matrix Codes
DW = Drinking Water
GW = Ground Water
WW = Waste Water
A=Air
SO =Soil
SL = Sludge
CP = Chip Samples

ABS=Asbestos, PO=Pipe Opening

*C-5.

46530

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 038

Page 2 **of** 2

APTIM Federal Services, LLC
4005 Port Chicago Hwy
Concord, CA 94520

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *8056808279*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*

edgar.ruiz@aptim.com

Sampler's Name(s): ER

	Sample ID Number	Lot No.	Collection Information			Matrix	# of containers	Container Type	Analyses Requested									
			Date	Time	Method				PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOS	Flow Rate (L/min.)	Sample Volume (m^3)			
12	PE-TSP120720-B606UPWIND	Q0401347	12/07/20	6 57	G	A	1	8X10 EPM Whatman					X	1132.8	513.2			
13	PE-TSP120720-12ADOWNWIND	Q0401349	12/07/20	7 07	G	A	1	8X10 EPM Whatman					X	1132.8	513.2			
14	PE-PM10120720-B606UPWIND	Q0401348	12/07/20	6 57	G	A	1	8X10 EPM Whatman				X		1132.8	513.2			
15	PE-PM10120720-12ADOWNWIND	Q0401350	12/07/20	7 07	G	A	1	8X10 EPM Whatman				X		1132.8	513.2			
16	PE-TSP120820-B606UPWIND	Q0401344	12/08/20	7 08	G	A	1	8X10 EPM Whatman					X	1132.8	500.7			
17	PE-TSP120820-12ADOWNWIND	Q0401346	12/08/20	7 20	G	A	1	8X10 EPM Whatman					X	1132.8	498.4			
18	PE-PM10120820-B606UPWIND	Q0401345	12/08/20	7 08	G	A	1	8X10 EPM Whatman				X		1132.8	500.7			
19	PE-PM10120820-12ADOWNWIND	Q0401338	12/08/20	7 20	G	A	1	8X10 EPM Whatman				X		1132.8	498.4			
20	PE-TSP120920-B606UPWIND	Q0401356	12/09/20	7 05	G	A	1	8X10 EPM Whatman					X	1132.8	504.1			
21	PE-TSP120920-12ADOWNWIND	Q0401358	12/09/20	7 15	G	A	1	8X10 EPM Whatman					X	1132.8	504.1			
22	PE-PM10120920-B606UPWIND	Q0401357	12/09/20	7 05	G	A	1	8X10 EPM Whatman				X		1132.8	504.1			
23	PE-PM10120920-12ADOWNWIND	Q0401359	12/09/20	7 15	G	A	1	8X10 EPM Whatman				X		1132.8	504.1			
24	PE-TSP121020-B606UPWIND	Q0401360	12/10/20	7 05	G	A	1	8X10 EPM Whatman					X	1132.8	504.1			
25	PE-TSP121020-12ADOWNWIND	Q0401366	12/10/20	7 15	G	A	1	8X10 EPM Whatman					X	1132.8	504.1			
26	PE-PM10121020-B606UPWIND	Q0401365	12/10/20	7 05	G	A	1	8X10 EPM Whatman				X		1132.8	504.1			
27	PE-PM10121020-12ADOWNWIND	Q0401367	12/10/20	7 15	G	A	1	8X10 EPM Whatman				X		1132.8	504.1			
28	PE-TSP121120-B606UPWIND	Q0401369	12/11/20	7 05	G	A	1	8X10 EPM Whatman					X	1132.8	492.8			
29	PE-TSP121120-12ADOWNWIND	Q0401371	12/11/20	7 20	G	A	1	8X10 EPM Whatman					X	1132.8	487.1			
30	PE-PM10121120-B606UPWIND	Q0401370	12/11/20	7 05	G	A	1	8X10 EPM Whatman				X		1132.8	492.8			
31	PE-PM10121120-12ADOWNWIND	Q0401372	12/11/20	7 20	G	A	1	8X10 EPM Whatman				X		1132.8	487.1			

46530

PROJECT NAME: HPNS Parcel E PROJ. NO. 500712 Asbestos TSP PM-10

STATION COC# 038

SAMPLE NO. PE-TSP120720-B606UPWIND 12/7/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401347	40 0	40 0	40.0	12/07/20 06 57	12/07/20 14 30	453	513 2	TSP	1132.80

SAMPLE NO. PE-TSP120720-12ADOWNWIND 12/7/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401349	40 0	40 0	40.0	12/07/20 07 07	12/07/20 14 40	453	513 2	TSP	1132.80

SAMPLE NO. PE-PM10120720-B606UPWIND 12/7/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401348	40 0	40 0	40.0	12/07/20 06 57	12/07/20 14 30	453	513 2	PM-10	1132.80

SAMPLE NO. PE-PM10120720-12ADOWNWIND 12/7/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401350	40 0	40 0	40.0	12/07/20 07 07	12/07/20 14 40	453	513 2	PM-10	1132.80

SAMPLE NO. PE-TSP120820-B606UPWIND 12/8/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401344	40.0	40 0	40 0	12/08/20 07.08	12/08/20 14 30	442	500 7	TSP	1132.80

SAMPLE NO. PE-TSP120820-12ADOWNWIND 12/8/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401346	40 0	40 0	40.0	12/08/20 07 20	12/08/20 14 40	440	498 4	TSP	1132.80

SAMPLE NO. PE-PM10120820-B606UPWIND 12/8/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401345	40.0	40.0	40.0	12/08/20 07.08	12/08/20 14 30	442	500.7	PM-10	1132.80

SAMPLE NO. PE-PM10120820-12ADOWNWIND 12/8/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401338	40 0	40 0	40.0	12/08/20 07 20	12/08/20 14 40	440	498 4	PM-10	1132.80

SAMPLE NO. PE-TSP120920-B606UPWIND 12/9/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401356	40 0	40 0	40 0	12/09/20 07 05	12/09/20 14 30	445	504 1	TSP	1132.80

SAMPLE NO. PE-TSP120920-12ADOWNWIND 12/9/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401358	40 0	40 0	40 0	12/09/20 07 15	12/09/20 14 40	445	504 1	TSP	1132 80

SAMPLE NO. PE-PM10120920-B606UPWIND 12/9/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401357	40 0	40 0	40.0	12/09/20 07 05	12/09/20 14 30	445	504 1	PM-10	1132 80

SAMPLE NO. PE-PM10120920-12ADOWNWIND 12/9/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401359	40 0	40 0	40 0	12/09/20 07 15	12/09/20 14 40	445	504 1	PM-10	1132.80

SAMPLE NO. PE-TSP121020-B606UPWIND 12/10/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401360	40.0	40 0	40 0	12/10/20 07 05	12/10/20 14 30	445	504 1	TSP	1132.80

SAMPLE NO. PE-TSP121020-12ADOWNWIND 12/10/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401366	40 0	40 0	40 0	12/10/20 07 15	12/10/20 14 40	445	504 1	TSP	1132.80

SAMPLE NO. PE-PM10121020-B606UPWIND 12/10/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401365	40 0	40 0	40.0	12/10/20 07 05	12/10/20 14 30	445	504 1	PM-10	1132 80

SAMPLE NO. PE-PM10121020-12ADOWNWIND 12/10/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401367	40 0	40 0	40.0	12/10/20 07 15	12/10/20 14 40	445	504 1	PM-10	1132 80

SAMPLE NO. PE-TSP121120-B606UPWIND 12/11/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				

Q0401369	40 0	40 0	40.0	12/11/20 07 05	12/11/20 14 20	435	492 8	TSP	1132 80

SAMPLE NO. **PE-TSP121120-12ADOWNWIND** 12/11/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401371	40 0	40 0	40 0	12/11/20 07 20	12/11/20 14 30	430	487 1	TSP	1132.80

SAMPLE NO. **PE-PM10121120-B606UPWIND** 12/11/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401370	40 0	40 0	40.0	12/11/20 07 05	12/11/20 14 20	435	492 8	PM-10	1132.80

SAMPLE NO. **PE-PM10121120-12ADOWNWIND** 12/11/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401372	40.0	40.0	40 0	12/11/20 07 20	12/11/20 14 30	430	487 1	PM-10	1132 80

AIR MONITORING LOG

PROJECT NAME: HPNS Parcel E PROJ. NO. 500712 Asbestos TSP PM-10

STATION COC# 038

SAMPLE NO. PE-ASB120720-B606UPWIND 12/7/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX744203	2 000	2 000	2 000	12/07/20 06 57	12/07/20 21 24	867	1 73	Asbestos	2 00

SAMPLE NO. PE-ASB120720-12ADOWNWIND 12/7/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX744217	2 000	2 000	2 000	12/07/20 07 07	12/07/20 20 03	776	1 55	Asbestos	2.00

SAMPLE NO. PE-ASB120820-B606UPWIND 12/8/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX744202	2 000	2 000	2 000	12/08/20 07 08	12/08/20 21 23	855	1 71	Asbestos	2 00

SAMPLE NO. PE-ASB120820-12ADOWNWIND 12/8/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX744241	2 000	2 000	2 000	12/08/20 07 20	12/08/20 21 31	851	1 70	Asbestos	2.00

SAMPLE NO. PE-ASB120920-B606UPWIND 12/9/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX744338	2 000	2 000	2 000	12/09/20 07 05	12/09/20 21 24	859	1 72	Asbestos	2 00

SAMPLE NO. PE-ASB120920-12ADOWNWIND 12/9/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX742984	2 000	2 000	2.000	12/09/20 07 15	12/09/20 19 21	726	1 45	Asbestos	2 00

SAMPLE NO. PE-ASB121020-B606UPWIND 12/10/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX744201	2 000	2 000	2 000	12/10/20 07 05	12/10/20 22 36	931	1 86	Asbestos	2.00

SAMPLE NO. PE-ASB121020-12ADOWNWIND 12/10/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX744213	2 000	2 000	2 000	12/10/20 07 15	12/10/20 19 18	723	1.45	Asbestos	2.00

SAMPLE NO.	PE-ASB121120-B606UPWIND			12/11/2020 *Building 606 Upwind*					
LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX744228	2.000	2 000	2 000	12/11/20 07 05	12/11/20 14 20	435	0 87	Asbestos	2.00

SAMPLE NO.	PE-ASB121120-12ADOWNWIND			12/11/2020 *12A Downwind*					
LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX744187	2 000	2 000	2 0	12/11/20 07 20	12/11/20 14 30	430	0 86	Asbestos	2 00

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove CA 92841
Phone 714-895-5494 Fax 714 894-7501

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Chang Terri	Carrier Tracking No(s):	COC No: 570 70335 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Terri Chang@eurofinset com	State of Origin: California	Page: Page 1 of 2
Company: EMSL Analytical Inc		Accreditations Required (See note)		Job #: 570-46530-1
Address: 5431 Industrial Drive,	Due Date Requested: 1/5/2021			
City: Huntington Beach	TAT Requested (days):			
State Zip: CA, 92649				
Phone	PO #:			
Email	WO #:			
Project Name: HPNS - Parcel E / 500712	Project #: ~~57003235~~ 570-46530			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL, B - NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F - MeOH, G - Amchlor, H Ascorbic Acid, I - Ice, J DI Water, K - EDTA, L - EDA, M Hexane, N None, O - AsNaO2, P - Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T - TSP Dodecahydrate, U Acetone, V - MCAA, W pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos Low Flow)/ NIOSH 7400	Total Number of containers	Special Instructions/Note
			Preservation Code						
PE-ASB120720-B606UPWIND (570-46530-1)	12/7/20	06 57 Pacific		Air			X	1	please provide standard excel EDD
PE-ASB120720-12ADOWNWIND (570-46530-2)	12/7/20	07 07 Pacific		Air			X	1	please provide standard excel EDD
PE-ASB120820-B606UPWIND (570-46530-3)	12/8/20	07 08 Pacific		Air			X	1	please provide standard excel EDD
PE-ASB120820-12ADOWNWIND (570-46530-4)	12/8/20	07 20 Pacific		Air			X	1	please provide standard excel EDD
PE-ASB120920-B606UPWIND (570-46530-5)	12/9/20	07 05 Pacific		Air			X	1	please provide standard excel EDD
PE-ASB120920-12ADOWNWIND (570-46530-6)	12/9/20	07 15 Pacific		Air			X	1	please provide standard excel EDD
PE-ASB121020-B606UPWIND (570-46530-7)	12/10/20	07 05 Pacific		Air			X	1	please provide standard excel EDD
PE-ASB121020-12ADOWNWIND (570-46530-8)	12/10/20	07 15 Pacific		Air			X	1	please provide standard excel EDD
PE-ASB121120-B606UPWIND (570-46530-9)	12/11/20	07 05 Pacific		Air			X	1	please provide standard excel EDD

Note: Since laboratory accreditations are subject to change Eurofins Calscience places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Calscience attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Calscience

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/18/20 12:30	ECS	CO CW1)	12/18/20 12:40	LAT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Ver: 11/01/2020

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Phone 714-895-5494 Fax 714-894-7501

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Chang Terri	Carrier Tracking No(s)	COC No: 570-70335 2
Client Contact: Shipping/Receiving	Phone	E-Mail: Terri Chang@eurofinset.com	State of Origin: California	Page: Page 2 of 2
Company: EMSL Analytical Inc		Accreditations Required (See note)		Job #: 570-46530-1
Address: 5431 Industrial Drive,	Due Date Requested: 1/5/2021			
City: Huntington Beach	TAT Requested (days)			
State Zip: CA, 92649				
Phone	PO #:			
Email	WO #:			
Project Name: HPNS - Parcel E / 500712	Project #: ~~57003235~~ 570-46530			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B NaOH, C - Zn Acetate, D Nitric Acid, E - NaHSO4, F MeOH, G - Amchlor, H - Ascorbic Acid, I Ice, J - DI Water, K EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P Na2O4S, Q - Na2SO3, R - Na2S2O3, S H2SO4, T - TSP Dodecahydrate, U - Acetone, V MCAA, W - pH 4-5, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - Low Flow)/ NIOSH 7400	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PE-ASB121120-12ADOWNWIND (570-46530-10)	12/11/20	07 20 Pacific		Air			X	1	please provide standard excel EDD
PE-ASB121120-BLANK (570-46530-11)	12/11/20	07 05 Pacific		Air			X	1	please provide standard excel EDD

Note: Since laboratory accreditations are subject to change Eurofins Calscience places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Calscience attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Calscience

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I, II III IV, Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		12/18/20 12:30	ECL		12/18/20 12:40	CAL
2						
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 11/01/2020

463 50

GLS

800-322-5555
www.gls-us.com

Ship From
EUROFINS CALSCIENCE, INC
ALAN KEMP
5063 COMMERCIAL CIRCLE
H
CONCORD, CA 94520

Ship To
CEL
SAMPLE RECEIVING
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD: $0.00
Weight: 0 lb(s)
Reference:
APTIM
Delivery Instructions:

Signature Type: STANDARD

Tracking #: 551596848

NPS

GARDEN GROVE

S92841A

32925975

ORC CA927-CL0

Print Date: 12/16/2020 4:00 PM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

570-46530 Waybill

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-46530-1

Login Number: 46530
List Number: 1
Creator: Le, Danny

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-46993-1
Client Project/Site: HPNS - Parcel E / 500712

For:
Aptim Federal Services LLC
Hunters Point Shipyard
200 Fisher Blvd
San Francisco, California 94124

Attn: Rose Condit

Terri Chang

Authorized for release by:
1/11/2021 4:29:18 PM

Terri Chang, Project Manager I
(714)895-5494
Terri.Chang@eurofinset.com

Table of Contents

Definitions/Glossary

Client: Aptim Federal Services LLC
Job ID: 570-46993-1
Project/Site: HPNS - Parcel E / 500712

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-46993-1

Job ID: 570-46993-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-46993-1

Comments
No additional comments.

Receipt
The samples were received on 12/23/2020 11:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 22.0º C.

Metals
Method 6010B: The method blank for preparation batch 570-120855 and analytical batch 570-121123 contained Manganese above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Lab Admin
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - Low Flow: This method was subcontracted to EMSL - LA Testing - Huntington Beach. The subcontract laboratory certification is different from that of the facility issuing the final report.

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP121420-B606UPWIND
Lab Sample ID: 570-46993-10
Date Collected: 12/14/20 07:07
Matrix: Air
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		01/07/21 15:00	01/08/21 14:10	1
Lead	ND		12.0	3.16	ug/Sample		01/07/21 15:00	01/08/21 14:10	1
Manganese	**4.74**	**J B**	6.00	3.34	ug/Sample		01/07/21 15:00	01/08/21 14:10	1

Client Sample ID: PE-TSP121420-12ADOWNWIND
Lab Sample ID: 570-46993-11
Date Collected: 12/14/20 07:21
Matrix: Air
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		01/07/21 15:00	01/08/21 14:17	1
Lead	**8.55**	**J**	12.0	3.16	ug/Sample		01/07/21 15:00	01/08/21 14:17	1
Manganese	**3.95**	**J B**	6.00	3.34	ug/Sample		01/07/21 15:00	01/08/21 14:17	1

Client Sample ID: PE-TSP121520-B606UPWIND
Lab Sample ID: 570-46993-14
Date Collected: 12/15/20 07:21
Matrix: Air
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		01/07/21 15:00	01/08/21 14:19	1
Lead	ND		12.0	3.16	ug/Sample		01/07/21 15:00	01/08/21 14:19	1
Manganese	**7.57**	**B**	6.00	3.34	ug/Sample		01/07/21 15:00	01/08/21 14:19	1

Client Sample ID: PE-TSP121520-12ADOWNWIND
Lab Sample ID: 570-46993-15
Date Collected: 12/15/20 07:38
Matrix: Air
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		01/07/21 15:00	01/08/21 14:21	1
Lead	ND		12.0	3.16	ug/Sample		01/07/21 15:00	01/08/21 14:21	1
Manganese	ND		6.00	3.34	ug/Sample		01/07/21 15:00	01/08/21 14:21	1

Client Sample ID: PE-TSP121620-B606UPWIND
Lab Sample ID: 570-46993-18
Date Collected: 12/16/20 07:15
Matrix: Air
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		01/07/21 15:00	01/08/21 14:36	1
Lead	**8.85**	**J**	12.0	3.16	ug/Sample		01/07/21 15:00	01/08/21 14:36	1
Manganese	**10.6**	**B**	6.00	3.34	ug/Sample		01/07/21 15:00	01/08/21 14:36	1

Client Sample ID: PE-TSP121620-12ADOWNWIND
Lab Sample ID: 570-46993-19
Date Collected: 12/16/20 07:35
Matrix: Air
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		01/07/21 15:00	01/08/21 14:38	1
Lead	**3.19**	**J**	12.0	3.16	ug/Sample		01/07/21 15:00	01/08/21 14:38	1
Manganese	**4.76**	**J B**	6.00	3.34	ug/Sample		01/07/21 15:00	01/08/21 14:38	1

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-46993-1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP121820-B606UPWIND
Lab Sample ID: 570-46993-22
Date Collected: 12/18/20 07:05
Matrix: Air
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**13.7**	**J**	18.0	6.22	ug/Sample		01/07/21 15:00	01/08/21 14:40	1
Lead	ND		12.0	3.16	ug/Sample		01/07/21 15:00	01/08/21 14:40	1
Manganese	**9.32**	**B**	6.00	3.34	ug/Sample		01/07/21 15:00	01/08/21 14:40	1

Client Sample ID: PE-TSP121820-12ADOWNWIND
Lab Sample ID: 570-46993-23
Date Collected: 12/18/20 07:30
Matrix: Air
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		01/07/21 15:00	01/08/21 14:43	1
Lead	**3.19**	**J**	12.0	3.16	ug/Sample		01/07/21 15:00	01/08/21 14:43	1
Manganese	**5.75**	**J B**	6.00	3.34	ug/Sample		01/07/21 15:00	01/08/21 14:43	1

General Chemistry

Client Sample ID: PE-TSP121420-B606UPWIND — **Lab Sample ID: 570-46993-10**
Date Collected: 12/14/20 07:07 — **Matrix: Air**
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	**13.6**		5.98	5.98	ug/m3			12/29/20 12:04	1

Client Sample ID: PE-TSP121420-12ADOWNWIND — **Lab Sample ID: 570-46993-11**
Date Collected: 12/14/20 07:21 — **Matrix: Air**
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	ND		6.03	6.03	ug/m3			12/29/20 12:04	1

Client Sample ID: PE-PM10121420-B606UPWIND — **Lab Sample ID: 570-46993-12**
Date Collected: 12/14/20 07:07 — **Matrix: Air**
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		5.98	5.98	ug/m3			12/29/20 12:41	1

Client Sample ID: PE-PM10121420-12ADOWNWIND — **Lab Sample ID: 570-46993-13**
Date Collected: 12/14/20 07:21 — **Matrix: Air**
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		6.03	6.03	ug/m3			12/29/20 12:41	1

Client Sample ID: PE-TSP121520-B606UPWIND — **Lab Sample ID: 570-46993-14**
Date Collected: 12/15/20 07:21 — **Matrix: Air**
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	**11.9**		6.40	6.40	ug/m3			12/29/20 12:04	1

Client Sample ID: PE-TSP121520-12ADOWNWIND — **Lab Sample ID: 570-46993-15**
Date Collected: 12/15/20 07:38 — **Matrix: Air**
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	ND		6.51	6.51	ug/m3			12/29/20 12:04	1

Client Sample ID: PE-PM10121520-B606UPWIND — **Lab Sample ID: 570-46993-16**
Date Collected: 12/15/20 07:21 — **Matrix: Air**
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	**10.0**		6.40	6.40	ug/m3			12/29/20 12:41	1

Client Sample ID: PE-PM10121520-12ADOWNWIND — **Lab Sample ID: 570-46993-17**
Date Collected: 12/15/20 07:38 — **Matrix: Air**
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		6.51	6.51	ug/m3			12/29/20 12:41	1

General Chemistry

Client Sample ID: PE-TSP121620-B606UPWIND — **Lab Sample ID: 570-46993-18**
Date Collected: 12/16/20 07:15 — **Matrix: Air**
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	22.7		6.09	6.09	ug/m3			12/29/20 12:04	1

Client Sample ID: PE-TSP121620-12ADOWNWIND — **Lab Sample ID: 570-46993-19**
Date Collected: 12/16/20 07:35 — **Matrix: Air**
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	19.3		6.23	6.23	ug/m3			12/29/20 12:04	1

Client Sample ID: PE-PM10121620-B606UPWIND — **Lab Sample ID: 570-46993-20**
Date Collected: 12/16/20 07:15 — **Matrix: Air**
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	22.9		6.09	6.09	ug/m3			12/29/20 12:41	1

Client Sample ID: PE-PM10121620-12ADOWNWIND — **Lab Sample ID: 570-46993-21**
Date Collected: 12/16/20 08:45 — **Matrix: Air**
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	13.4		7.85	7.85	ug/m3			12/29/20 12:41	1

Client Sample ID: PE-TSP121820-B606UPWIND — **Lab Sample ID: 570-46993-22**
Date Collected: 12/18/20 07:05 — **Matrix: Air**
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	13.1		5.63	5.63	ug/m3			12/29/20 12:04	1

Client Sample ID: PE-TSP121820-12ADOWNWIND — **Lab Sample ID: 570-46993-23**
Date Collected: 12/18/20 07:30 — **Matrix: Air**
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	ND		5.88	5.88	ug/m3			12/29/20 12:04	1

Client Sample ID: PE-PM10121820-B606UPWIND — **Lab Sample ID: 570-46993-24**
Date Collected: 12/18/20 07:05 — **Matrix: Air**
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		5.63	5.63	ug/m3			12/29/20 12:41	1

Client Sample ID: PE-PM10121820-12ADOWNWIND — **Lab Sample ID: 570-46993-25**
Date Collected: 12/18/20 08:54 — **Matrix: Air**
Date Received: 12/23/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		7.24	7.24	ug/m3			12/29/20 12:41	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-120855/1-A
Matrix: Air
Analysis Batch: 121123

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 120855

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		01/07/21 15:00	01/08/21 14:03	1
Lead	ND		12.0	3.16	ug/Sample		01/07/21 15:00	01/08/21 14:03	1
Manganese	4.481	J	6.00	3.34	ug/Sample		01/07/21 15:00	01/08/21 14:03	1

Lab Sample ID: LCS 570-120855/2-A
Matrix: Air
Analysis Batch: 121123

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	600	576.3		ug/Sample		96	80 - 120
Lead	600	616.3		ug/Sample		103	80 - 120
Manganese	600	596.8		ug/Sample		99	80 - 120

Lab Sample ID: LCSD 570-120855/3-A
Matrix: Air
Analysis Batch: 121123

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 120855

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	600	570.0		ug/Sample		95	80 - 120	1	20
Lead	600	613.2		ug/Sample		102	80 - 120	1	20
Manganese	600	593.8		ug/Sample		99	80 - 120	1	20

Lab Sample ID: 570-46993-10 MS
Matrix: Air
Analysis Batch: 121123

Client Sample ID: PE-TSP121420-B606UPWIND
Prep Type: Total/NA
Prep Batch: 120855

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		600	572.1		ug/Sample		95	75 - 125
Lead	ND		600	610.4		ug/Sample		102	75 - 125
Manganese	4.74	J B	600	596.1		ug/Sample		99	75 - 125

Lab Sample ID: 570-46993-10 MSD
Matrix: Air
Analysis Batch: 121123

Client Sample ID: PE-TSP121420-B606UPWIND
Prep Type: Total/NA
Prep Batch: 120855

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		600	554.7		ug/Sample		92	75 - 125	3	20
Lead	ND		600	614.7		ug/Sample		102	75 - 125	1	20
Manganese	4.74	J B	600	594.1		ug/Sample		98	75 - 125	0	20

Method: 40CFR50 App B - Suspended Particulate Matter in Ambient Air

Lab Sample ID: MB 570-119186/1-A
Matrix: Air
Analysis Batch: 119191

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	ND		1.23	1.23	ug/m3			12/29/20 12:04	1

Method: 40CFR50 App B - Suspended Particulate Matter in Ambient Air (Continued)

Lab Sample ID: 570-46993-10 DU
Matrix: Air
Analysis Batch: 119191

Client Sample ID: PE-TSP121420-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	13.6			13.55		ug/m3				0	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-119195/1
Matrix: Air
Analysis Batch: 119195

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		1.23	1.23	ug/m3			12/29/20 12:41	1

Lab Sample ID: 570-46993-12 DU
Matrix: Air
Analysis Batch: 119195

Client Sample ID: PE-PM10121420-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	ND			ND		ug/m3				NC	25

Metals

Prep Batch: 120855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-46993-10	PE-TSP121420-B606UPWIND	Total/NA	Air	3050B	
570-46993-11	PE-TSP121420-12ADOWNWIND	Total/NA	Air	3050B	
570-46993-14	PE-TSP121520-B606UPWIND	Total/NA	Air	3050B	
570-46993-15	PE-TSP121520-12ADOWNWIND	Total/NA	Air	3050B	
570-46993-18	PE-TSP121620-B606UPWIND	Total/NA	Air	3050B	
570-46993-19	PE-TSP121620-12ADOWNWIND	Total/NA	Air	3050B	
570-46993-22	PE-TSP121820-B606UPWIND	Total/NA	Air	3050B	
570-46993-23	PE-TSP121820-12ADOWNWIND	Total/NA	Air	3050B	
MB 570-120855/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-120855/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-120855/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-46993-10 MS	PE-TSP121420-B606UPWIND	Total/NA	Air	3050B	
570-46993-10 MSD	PE-TSP121420-B606UPWIND	Total/NA	Air	3050B	

Analysis Batch: 121123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-46993-10	PE-TSP121420-B606UPWIND	Total/NA	Air	6010B	120855
570-46993-11	PE-TSP121420-12ADOWNWIND	Total/NA	Air	6010B	120855
570-46993-14	PE-TSP121520-B606UPWIND	Total/NA	Air	6010B	120855
570-46993-15	PE-TSP121520-12ADOWNWIND	Total/NA	Air	6010B	120855
570-46993-18	PE-TSP121620-B606UPWIND	Total/NA	Air	6010B	120855
570-46993-19	PE-TSP121620-12ADOWNWIND	Total/NA	Air	6010B	120855
570-46993-22	PE-TSP121820-B606UPWIND	Total/NA	Air	6010B	120855
570-46993-23	PE-TSP121820-12ADOWNWIND	Total/NA	Air	6010B	120855
MB 570-120855/1-A	Method Blank	Total/NA	Air	6010B	120855
LCS 570-120855/2-A	Lab Control Sample	Total/NA	Air	6010B	120855
LCSD 570-120855/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	120855
570-46993-10 MS	PE-TSP121420-B606UPWIND	Total/NA	Air	6010B	120855
570-46993-10 MSD	PE-TSP121420-B606UPWIND	Total/NA	Air	6010B	120855

General Chemistry

Pre Prep Batch: 119186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-46993-10	PE-TSP121420-B606UPWIND	Total/NA	Air	Filter to Air	
570-46993-11	PE-TSP121420-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-46993-14	PE-TSP121520-B606UPWIND	Total/NA	Air	Filter to Air	
570-46993-15	PE-TSP121520-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-46993-18	PE-TSP121620-B606UPWIND	Total/NA	Air	Filter to Air	
570-46993-19	PE-TSP121620-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-46993-22	PE-TSP121820-B606UPWIND	Total/NA	Air	Filter to Air	
570-46993-23	PE-TSP121820-12ADOWNWIND	Total/NA	Air	Filter to Air	
MB 570-119186/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-46993-10 DU	PE-TSP121420-B606UPWIND	Total/NA	Air	Filter to Air	

Analysis Batch: 119191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-46993-10	PE-TSP121420-B606UPWIND	Total/NA	Air	40CFR50 App B	119186
570-46993-11	PE-TSP121420-12ADOWNWIND	Total/NA	Air	40CFR50 App B	119186
570-46993-14	PE-TSP121520-B606UPWIND	Total/NA	Air	40CFR50 App B	119186
570-46993-15	PE-TSP121520-12ADOWNWIND	Total/NA	Air	40CFR50 App B	119186

General Chemistry (Continued)

Analysis Batch: 119191 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-46993-18	PE-TSP121620-B606UPWIND	Total/NA	Air	40CFR50 App B	119186
570-46993-19	PE-TSP121620-12ADOWNWIND	Total/NA	Air	40CFR50 App B	119186
570-46993-22	PE-TSP121820-B606UPWIND	Total/NA	Air	40CFR50 App B	119186
570-46993-23	PE-TSP121820-12ADOWNWIND	Total/NA	Air	40CFR50 App B	119186
MB 570-119186/1-A	Method Blank	Total/NA	Air	40CFR50 App B	119186
570-46993-10 DU	PE-TSP121420-B606UPWIND	Total/NA	Air	40CFR50 App B	119186

Analysis Batch: 119195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-46993-12	PE-PM10121420-B606UPWIND	Total/NA	Air	PM10	
570-46993-13	PE-PM10121420-12ADOWNWIND	Total/NA	Air	PM10	
570-46993-16	PE-PM10121520-B606UPWIND	Total/NA	Air	PM10	
570-46993-17	PE-PM10121520-12ADOWNWIND	Total/NA	Air	PM10	
570-46993-20	PE-PM10121620-B606UPWIND	Total/NA	Air	PM10	
570-46993-21	PE-PM10121620-12ADOWNWIND	Total/NA	Air	PM10	
570-46993-24	PE-PM10121820-B606UPWIND	Total/NA	Air	PM10	
570-46993-25	PE-PM10121820-12ADOWNWIND	Total/NA	Air	PM10	
MB 570-119195/1	Method Blank	Total/NA	Air	PM10	
570-46993-12 DU	PE-PM10121420-B606UPWIND	Total/NA	Air	PM10	

BALANCE CALIBRATION CHECK LOG

Eurofins Calscience

Date performed: 12/29/20 Initials: AAH

ID	Class 2 Weight (g)	Reading (g)	Acceptance Range	Pass? (circle one)	Comment (If not passed, note removal or corrective action)
83	1	1.00	0.98 - 1.02	(Y) N	IO Lab
	100	99.99	98.00 - 102.00	(Y) N	
62	0.002	0.0015	0.0015 - 0.0025	(Y) N	IO Lab
	1	0.9991	0.9990 - 1.0010	(Y) N	
	100	99.9914	99.9000 - 100.1000	(Y) N	
11	1	1.00	0.98 - 1.02	(Y) N	IO Lab
	100	100.00	98.00 - 102.00	(Y) N	
55	1	1.00	0.98 - 1.02	(Y) N	IO Lab
	100	99.98	98.00 - 102.00	(Y) N	
	500	499.97	490.00 - 510.00	(Y) N	
86	1	1.00	0.98 - 1.02	(Y) N	IO Lab
	100	99.99	98.00 - 102.00	(Y) N	
	500	499.99	490.00 - 510.00	(Y) N	
71	0.002	0.0016	0.0015 - 0.0025	(Y) N	BOD Room
	1	0.9991	0.9990 - 1.0010	(Y) N	
	100	99.9901	99.9000 - 100.1000	(Y) N	
63	0.1		0.08 - 0.12	Y N	BOD Room
	100		98.00 - 102.00	Y N	
73	0.1	0.09	0.08 - 0.12	(Y) N	Oil & Grease Room
	1	0.99	0.98 - 1.02	(Y) N	
	100	99.99	98.00 - 102.00	(Y) N	
87	0.002	0.0015	0.0015 - 0.0025	(Y) N	Solids Room
	1	0.9991	0.9990 - 1.0010	(Y) N	
	100	99.9919	99.9000 - 100.1000	(Y) N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

Comments:

WT SET ID USED: 2 mg 1000151861	**COMMENT:**
WT SET ID USED: 10 mg - 100 g 40000113239	
WT SET ID USED: 500 g 69073	

Lab Chronicle

Client: Aptim Federal Services LLC
Job ID: 570-46993-1
Project/Site: HPNS - Parcel E / 500712

Client Sample ID: PE-TSP121420-B606UPWIND
Lab Sample ID: 570-46993-10
Date Collected: 12/14/20 07:07
Matrix: Air
Date Received: 12/23/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	120855	01/07/21 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			121123	01/08/21 14:10	EMS	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					119186	12/29/20 12:04	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			119191	12/29/20 12:04	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP121420-12ADOWNWIND
Lab Sample ID: 570-46993-11
Date Collected: 12/14/20 07:21
Matrix: Air
Date Received: 12/23/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	120855	01/07/21 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			121123	01/08/21 14:17	EMS	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					119186	12/29/20 12:04	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			119191	12/29/20 12:04	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10121420-B606UPWIND
Lab Sample ID: 570-46993-12
Date Collected: 12/14/20 07:07
Matrix: Air
Date Received: 12/23/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3829 g	4.3846 g	119195	12/29/20 12:41	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10121420-12ADOWNWIND
Lab Sample ID: 570-46993-13
Date Collected: 12/14/20 07:21
Matrix: Air
Date Received: 12/23/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4041 g	4.4061 g	119195	12/29/20 12:41	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP121520-B606UPWIND
Lab Sample ID: 570-46993-14
Date Collected: 12/15/20 07:21
Matrix: Air
Date Received: 12/23/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	120855	01/07/21 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			121123	01/08/21 14:19	EMS	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					119186	12/29/20 12:04	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			119191	12/29/20 12:04	UWCT	ECL 1
	Instrument ID: BAL62									

Client: Aptim Federal Services LLC
Job ID: 570-46993-1
Project/Site: HPNS - Parcel E / 500712

Client Sample ID: PE-TSP121520-12ADOWNWIND
Lab Sample ID: 570-46993-15
Date Collected: 12/15/20 07:38
Matrix: Air
Date Received: 12/23/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	120855	01/07/21 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			121123	01/08/21 14:21	EMS	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					119186	12/29/20 12:04	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			119191	12/29/20 12:04	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10121520-B606UPWIND
Lab Sample ID: 570-46993-16
Date Collected: 12/15/20 07:21
Matrix: Air
Date Received: 12/23/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3914 g	4.3961 g	119195	12/29/20 12:41	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10121520-12ADOWNWIND
Lab Sample ID: 570-46993-17
Date Collected: 12/15/20 07:38
Matrix: Air
Date Received: 12/23/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4101 g	4.4116 g	119195	12/29/20 12:41	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP121620-B606UPWIND
Lab Sample ID: 570-46993-18
Date Collected: 12/16/20 07:15
Matrix: Air
Date Received: 12/23/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	120855	01/07/21 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			121123	01/08/21 14:36	EMS	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					119186	12/29/20 12:04	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			119191	12/29/20 12:04	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP121620-12ADOWNWIND
Lab Sample ID: 570-46993-19
Date Collected: 12/16/20 07:35
Matrix: Air
Date Received: 12/23/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	120855	01/07/21 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			121123	01/08/21 14:38	EMS	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					119186	12/29/20 12:04	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			119191	12/29/20 12:04	UWCT	ECL 1
	Instrument ID: BAL62									

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-46993-1

Client Sample ID: PE-PM10121620-B606UPWIND
Lab Sample ID: 570-46993-20
Date Collected: 12/16/20 07:15
Matrix: Air
Date Received: 12/23/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3653 g	4.3766 g	119195	12/29/20 12:41	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10121620-12ADOWNWIND
Lab Sample ID: 570-46993-21
Date Collected: 12/16/20 08:45
Matrix: Air
Date Received: 12/23/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3774 g	4.3825 g	119195	12/29/20 12:41	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP121820-B606UPWIND
Lab Sample ID: 570-46993-22
Date Collected: 12/18/20 07:05
Matrix: Air
Date Received: 12/23/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	120855	01/07/21 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			121123	01/08/21 14:40	EMS	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					119186	12/29/20 12:04	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			119191	12/29/20 12:04	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP121820-12ADOWNWIND
Lab Sample ID: 570-46993-23
Date Collected: 12/18/20 07:30
Matrix: Air
Date Received: 12/23/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	120855	01/07/21 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			121123	01/08/21 14:43	EMS	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					119186	12/29/20 12:04	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			119191	12/29/20 12:04	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10121820-B606UPWIND
Lab Sample ID: 570-46993-24
Date Collected: 12/18/20 07:05
Matrix: Air
Date Received: 12/23/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4104 g	4.4126 g	119195	12/29/20 12:41	UWCT	ECL 1
	Instrument ID: BAL62									

Lab Chronicle

Client: Aptim Federal Services LLC
Job ID: 570-46993-1
Project/Site: HPNS - Parcel E / 500712

Client Sample ID: PE-PM10121820-12ADOWNWIND
Lab Sample ID: 570-46993-25
Date Collected: 12/18/20 08:54
Matrix: Air
Date Received: 12/23/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3985 g	4.3995 g	119195	12/29/20 12:41	UWCT	ECL 1
	Instrument ID: BAL62									

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

EMSL = EMSL - LA Testing - Huntington Beach, 5431 Industrial Drive, Huntington Beach, CA 92649

Accreditation/Certification Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-46993-1

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-30-21
California	SCAQMD LAP	17LA0919	11-30-21
California	State	2944	09-30-21
Guam	State	20-003R	10-31-20 *
Nevada	State	CA00111	07-31-21
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-46993-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	ECL 1
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	ECL 1
PM10	Particulate Matter	40CFR50J	ECL 1
NIOSH 7400 Rev	NIOSH 7400 Rev. 3	NIOSH	EMSL
3050B	Preparation, Metals	SW846	ECL 1
Filter to Air	Filter to Air volume ratio	None	ECL 1

Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

NIOSH = NIOSH Manual Of Analytical Methods, National Institute For Occupational Safety And Health, 4th Edition, August 1994 and it's Supplements

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

EMSL = EMSL - LA Testing - Huntington Beach, 5431 Industrial Drive, Huntington Beach, CA 92649

Sample Summary

Client: Aptim Federal Services LLC
Job ID: 570-46993-1
Project/Site: HPNS - Parcel E / 500712

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-46993-1	PE-ASB121420-B606UPWIND	Air	12/14/20 07:07	12/23/20 11:00	
570-46993-2	PE-ASB121420-12ADOWNWIND	Air	12/14/20 08:26	12/23/20 11:00	
570-46993-3	PE-ASB121520-B606UPWIND	Air	12/15/20 07:21	12/23/20 11:00	
570-46993-4	PE-ASB121520-12ADOWNWIND	Air	12/15/20 07:38	12/23/20 11:00	
570-46993-5	PE-ASB121620-B606UPWIND	Air	12/16/20 07:15	12/23/20 11:00	
570-46993-6	PE-ASB121620-12ADOWNWIND	Air	12/16/20 07:35	12/23/20 11:00	
570-46993-7	PE-ASB121820-B606UPWIND	Air	12/18/20 07:05	12/23/20 11:00	
570-46993-8	PE-ASB121820-12ADOWNWIND	Air	12/18/20 07:30	12/23/20 11:00	
570-46993-9	PE-ASB121820-BLANK	Air	12/18/20 07:05	12/23/20 11:00	
570-46993-10	PE-TSP121420-B606UPWIND	Air	12/14/20 07:07	12/23/20 11:00	
570-46993-11	PE-TSP121420-12ADOWNWIND	Air	12/14/20 07:21	12/23/20 11:00	
570-46993-12	PE-PM10121420-B606UPWIND	Air	12/14/20 07:07	12/23/20 11:00	
570-46993-13	PE-PM10121420-12ADOWNWIND	Air	12/14/20 07:21	12/23/20 11:00	
570-46993-14	PE-TSP121520-B606UPWIND	Air	12/15/20 07:21	12/23/20 11:00	
570-46993-15	PE-TSP121520-12ADOWNWIND	Air	12/15/20 07:38	12/23/20 11:00	
570-46993-16	PE-PM10121520-B606UPWIND	Air	12/15/20 07:21	12/23/20 11:00	
570-46993-17	PE-PM10121520-12ADOWNWIND	Air	12/15/20 07:38	12/23/20 11:00	
570-46993-18	PE-TSP121620-B606UPWIND	Air	12/16/20 07:15	12/23/20 11:00	
570-46993-19	PE-TSP121620-12ADOWNWIND	Air	12/16/20 07:35	12/23/20 11:00	
570-46993-20	PE-PM10121620-B606UPWIND	Air	12/16/20 07:15	12/23/20 11:00	
570-46993-21	PE-PM10121620-12ADOWNWIND	Air	12/16/20 08:45	12/23/20 11:00	
570-46993-22	PE-TSP121820-B606UPWIND	Air	12/18/20 07:05	12/23/20 11:00	
570-46993-23	PE-TSP121820-12ADOWNWIND	Air	12/18/20 07:30	12/23/20 11:00	
570-46993-24	PE-PM10121820-B606UPWIND	Air	12/18/20 07:05	12/23/20 11:00	
570-46993-25	PE-PM10121820-12ADOWNWIND	Air	12/18/20 08:54	12/23/20 11:00	

LA Testing

5431 Industrial Drive Huntington Beach, CA 92649
Tel/Fax: (714) 828-4999 / (714) 828-4944
http://www.LATesting.com / gardengrovelab@latesting.com

LA Testing Order: 332023629
Customer ID: 32CALS51
Customer PO:
Project ID:

Attention: Terri Chang
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841

Phone: (714) 895-5494
Fax: (714) 894-7501
Received Date: 12/30/2020 03:30 PM
Analysis Date: 01/11/2021
Collected Date: 12/14/2020 - 12/18/2020

Project: 57003235 : HPNS - Parcel E / 500712

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 3, 6/15/2019

Sample	*Location*	*Sample Date*	*Volume (L)*	*Fibers*	*Fields*	*LOD (fib/cc)*	*Fibers/mm²*	*Fibers/cc*	*Notes*
PE-ASB121420-B606UPW IND (570-46993-1) *332023629-0001*		12/14/2020	1770	<5.5	100	0.0015	<7.01	<0.0015	
PE-ASB121420-12DOWN WIND (570-46993-2) *332023629-0002*		12/14/2020	1440	<5.5	100	0.0019	<7.01	<0.0019	
PE-ASB121520-B606UPW IND (570-46993-3) *332023629-0003*		12/15/2020	1670	<5.5	100	0.0016	<7.01	<0.0016	
PE-ASB121520-12ADOW NWIND (570-46993-4) *332023629-0004*		12/15/2020	1640	<5.5	100	0.0016	<7.01	<0.0016	
PE-ASB121620-B606UPW IND (570-46993-5) *332023629-0005*		12/16/2020	1740	6	100	0.0015	7.64	0.0017	
PE-ASB121620-12ADOW NWIND (570-46993-6) *332023629-0006*		12/16/2020	1540	<5.5	100	0.0018	<7.01	<0.0018	Sample pulled for 10% recount
PE-ASB121820-B606UPW IND (570-46993-7) *332023629-0007*		12/18/2020	940	<5.5	100	0.0029	<7.01	<0.0029	
PE-ASB121820-12ADOW NWIND (570-46993-8) *332023629-0008*		12/18/2020	900	6	100	0.0030	7.64	0.0033	
PE-ASB121820-BLANK (570-46993-9) *332023629-0009*		12/18/2020		<5.5	100		<7.01		Field Blank
PE-ASB121620-12ADOW NWIND (570-46993-6) *332023629-0010*		12/16/2020	1540	<5.5	100	0.0018	<7.01	<0.0018	10% Recount; Individual-CV=0.23

The results reported have been blank corrected as applicable.

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Limit of detection is 7 fibers/mm². Fiber counts outside the recommended fiber density range of the method (100-1300 f/mm2) have greater than optimal variability and are probably biased. Field blank results, when available, are used to blank correct results. NIOSH 7400 requires field blanks be submitted at a rate of 10%, with a minimum of 2 per set. Measurement of uncertainty available upon request. The results in this report meet all requirements of the NELAC standards unless otherwise noted.
Intra-laboratory Sr values: 5-20 fibers = 0.35, 21-50 fibers = 0.24, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.34.
Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--IHLAP Accredited #101650

Initial report from: 01/11/2021 02:00 PM

LA Testing

5431 Industrial Drive Huntington Beach, CA 92649
Tel/Fax: (714) 828-4999 / (714) 828-4944
http://www.LATesting.com / gardengrovelab@latesting.com

LA Testing Order: 332023629
Customer ID: 32CALS51
Customer PO:
Project ID:

Attention: Terri Chang
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841

Phone: (714) 895-5494
Fax: (714) 894-7501
Received Date: 12/30/2020 03:30 PM
Analysis Date: 01/11/2021
Collected Date: 12/14/2020 - 12/18/2020

Project: 57003235 : HPNS - Parcel E / 500712

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 3, 6/15/2019

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm²	Fibers/cc	Notes

Analyst(s):
Brian Magumcia PCM 10

Michael Chapman, Laboratory Manager
or other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Limit of detection is 7 fibers/mm². Fiber counts outside the recommended fiber density range of the method (100-1300 f/mm2) have greater than optimal variability and are probably biased. Field blank results, when available, are used to blank correct results. NIOSH 7400 requires field blanks be submitted at a rate of 10%, with a minimum of 2 per set. Measurement of uncertainty available upon request. The results in this report meet all requirements of the NELAC standards unless otherwise noted.
Intra-laboratory Sr values: 5-20 fibers = 0.35, 21-50 fibers = 0.24, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.34.
Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--IHLAP Accredited #101650

Initial report from: 01/11/2021 02:00 PM

46993

570-46993 Chain of Custody

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 039

Page 1 of 2

APTIM Federal Services, LLC

4005 Port Chicago Hwy

Concord, CA 94520

Project Number: 500712

Project Name: HPNS - Parcel E

Project Location: San Francisco, CA

Purchase Order #: 115718

Lab Destination: Eurofins-Calscience

7440 Lincoln Way

Garden Grove CA 92841

Lab Contact: Terri Chang

Project Manager: *Nels Johnson*

Send Report To: *Jose Maldonado*

Phone/Fax Number: *415-340-9637*

Address: *4005 Port Chicago Hwy*

City: *Concord, CA 94520*

Jose.Maldonado@aptim.com

Sampler's Name(s): ER

	Sample ID Number	Filter No.	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	Analyses Requested: PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B, NIOSH 7300/6010B)	Flow Rate (L/min.)	Sample Volume (m^3)			
1	PE-ASB121420-B606UPWIND	CX744180	12/14/20	7 07	G	A	1	PCM			X			2.00	1.77			
2	PE-ASB121420-12ADOWNWIND	CX744242	12/14/20	8.26	G	A	1	PCM			X			2.00	1.44			
3	PE-ASB121520-B606UPWIND	CX744226	12/15/20	7 21	G	A	1	PCM			X			2.00	1.67			
4	PE-ASB121520-12ADOWNWIND	CX744274	12/15/20	7 38	G	A	1	PCM			X			2.00	1.64			
5	PE-ASB121620-B606UPWIND	CX737861	12/16/20	7 15	G	A	1	PCM			X			2.00	1.74			
6	PE-ASB121620-12ADOWNWIND	CX737849	12/16/20	7 35	G	A	1	PCM			X			2.00	1.54			
7	PE-ASB121820-B606UPWIND	CX737844	12/18/20	7 05	G	A	1	PCM			X			2.00	0.94			
8	PE-ASB121820-12ADOWNWIND	CX742985	12/18/20	7 30	G	A	1	PCM			X			2.00	0.90			
9	PE-ASB121820-BLANK	CX737873	12/18/20	7 05	G	A	1	PCM			X			NA				
	Temperature Blank																	x

Special Instructions: J to MDL

Turn Around Time

☐ 24-hr ☐ 5-day ☑ 10-day

Level Of QC Required:

I ☐ II ☑ III ☐ Project Specific.

Relinquished By	Date	Time	Received By	Date	Time
Jose Maldonado	12/18/20	15 30	Lock & Storage	12/18/20	15. 30
Lock & Storage	12/22/20	9.00	Jose Maldonado	12/22/20	9.00
Jose Maldonado	12/22/20	1023	Mark Valentine	12/22/20	1023
	12/22/20	1630		12/23/20	11:00

Method Codes

C = Composite G = Grab

Matrix Codes

DW = Drinking Water SO = Soil

GW = Ground Water SL = Sludge

WW = Waste Water CP = Chip Samples

A=Air

ABS=Asbestos, PO=Pipe Openning

*C-5 # 1271610

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 039

Page 2 of 2

APTIM Federal Services, LLC
4005 Port Chicago Hwy
Concord, CA 94520

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Send Report To: *Jose Maldonado*
Phone/Fax Number: *415-340-9637*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
Jose.Maldonado@aptim.com

Sampler's Name(s): ER

	Sample ID Number	Lot No.	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	Analyses Requested: PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOS	Flow Rate (L/min.)	Sample Volume (m^3)			
10	PE-TSP121420-B606UPWIND	Q0401385	12/14/20	7 07	G	A	1	8X10 EPM Whatman					X	1132.8	501.8			
11	PE-TSP121420-12ADOWNWIND	Q0401387	12/14/20	7 21	G	A	1	8X10 EPM Whatman					X	1132.8	497.3			
12	PE-PM10121420-B606UPWIND	Q0401386	12/14/20	7 07	G	A	1	8X10 EPM Whatman				X		1132.8	501.8			
13	PE-PM10121420-12ADOWNWIND	Q0401388	12/14/20	7 21	G	A	1	8X10 EPM Whatman				X		1132.8	497.3			
14	PE-TSP121520-B606UPWIND	Q0401389	12/15/20	7 21	G	A	1	8X10 EPM Whatman					X	1132.8	469.0			
15	PE-TSP121520-12ADOWNWIND	Q0401391	12/15/20	7 38	G	A	1	8X10 EPM Whatman					X	1132.8	461.0			
16	PE-PM10121520-B606UPWIND	Q0401390	12/15/20	7 21	G	A	1	8X10 EPM Whatman				X		1132.8	469.0			
17	PE-PM10121520-12ADOWNWIND	Q0401392	12/15/20	7 38	G	A	1	8X10 EPM Whatman				X		1132.8	461.0			
18	PE-TSP121620-B606UPWIND	Q0401400	12/16/20	7 15	G	A	1	8X10 EPM Whatman					X	1132.8	492.8			
19	PE-TSP1201620-12ADOWNWIND	Q0401602	12/16/20	7 35	G	A	1	8X10 EPM Whatman					X	1132.8	481.4			
20	PE-PM10121620-B606UPWIND	Q0401601	12/16/20	7 15	G	A	1	8X10 EPM Whatman				X		1132.8	492.8			
21	PE-PM10121620-12ADOWNWIND	Q0401603	12/16/20	8 45	G	A	1	8X10 EPM Whatman				X		1076.2	382.0			
22	PE-TSP121820-B606UPWIND	Q0401399	12/18/20	7 05	G	A	1	8X10 EPM Whatman					X	1132.8	532.4			
23	PE-TSP121820-12ADOWNWIND	Q0401397	12/18/20	7 30	G	A	1	8X10 EPM Whatman					X	1132.8	509.8			
24	PE-PM10121820-B606UPWIND	Q0401398	12/18/20	7 05	G	A	1	8X10 EPM Whatman				X		1132.8	532.4			
25	PE-PM10121820-12ADOWNWIND	Q0401608	12/18/20	8 54	G	A	1	8X10 EPM Whatman				X		1132.8	414.6			

AIR MONITORING LOG

PROJECT NAME: HPNS Parcel E PROJ. NO. 500712 Asbestos TSP PM-10

STATION COC# 039

SAMPLE NO. PE-ASB121420-B606UPWIND 12/14/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX744180	2 000	2 000	2.000	12/14/20 07 07	12/14/20 21 54	887	1.77	Asbestos	2.00

SAMPLE NO. PE-ASB121420-12ADOWNWIND 12/14/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX744242	2 000	2 000	2.000	12/14/20 08 26	12/14/20 20 28	722	1.44	Asbestos	2.00

SAMPLE NO. PE-ASB121520-B606UPWIND 12/15/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX744226	2 000	2 000	2.000	12/15/20 07 21	12/15/20 21 14	833	1.67	Asbestos	2.00

SAMPLE NO. PE-ASB121520-12ADOWNWIND 12/15/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX744274	2 000	2 000	2.000	12/15/20 07 38	12/15/20 21 16	818	1.64	Asbestos	2.00

SAMPLE NO. PE-ASB121620-B606UPWIND 12/16/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX737861	2 000	2 000	2.000	12/16/20 07 15	12/16/20 21 46	871	1.74	Asbestos	2.00

SAMPLE NO. PE-ASB121620-12ADOWNWIND 12/16/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX737849	2 000	2.000	2.000	12/16/20 07 35	12/16/20 20 25	770	1.54	Asbestos	2.00

SAMPLE NO. PE-ASB121820-B606UPWIND 12/18/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX737844	2 000	2 000	2.000	12/18/20 07 05	12/18/20 14 55	470	0.94	Asbestos	2.00

SAMPLE NO. PE-ASB121820-12ADOWNWIND 12/18/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX742985	2 000	2 000	2.0	12/18/20 07 30	12/18/20 15 00	450	0.90	Asbestos	2.00

46993

PROJECT NAME: HPNS Parcel E PROJ. NO. 500712 Asbestos TSP PM-10

STATION COC# 039

SAMPLE NO. PE-TSP121420-B606UPWIND 12/14/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401385	40 0	40.0	40.0	12/14/20 07 07	12/14/20 14 30	443	501.8	TSP	1132.80

SAMPLE NO. PE-TSP121420-12ADOWNWIND 12/14/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401387	40.0	40 0	40.0	12/14/20 07 21	12/14/20 14 40	439	497.3	TSP	1132.80

SAMPLE NO. PE-PM10121420-B606UPWIND 12/14/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401386	40.0	40.0	40.0	12/14/20 07 07	12/14/20 14 30	443	501.8	PM-10	1132.80

SAMPLE NO. PE-PM10121420-12ADOWNWIND 12/14/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401388	40.0	40.0	40.0	12/14/20 07 21	12/14/20 14 40	439	497.3	PM-10	1132.80

SAMPLE NO. PE-TSP121520-B606UPWIND 12/15/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401389	40 0	40.0	40.0	12/15/20 07 21	12/15/20 14 15	414	469.0	TSP	1132.80

SAMPLE NO. PE-TSP121520-12ADOWNWIND 12/15/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401391	40 0	40.0	40.0	12/15/20 07 38	12/15/20 14 25	407	461.0	TSP	1132.80

SAMPLE NO. PE-PM10121520-B606UPWIND 12/15/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401390	40.0	40.0	40.0	12/15/20 07.21	12/15/20 14 15	414	469.0	PM-10	1132.80

SAMPLE NO. PE-PM10121520-12ADOWNWIND 12/15/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401392	40.0	40.0	40.0	12/15/20 07 38	12/15/20 14 25	407	461.0	PM-10	1132.80

46993

SAMPLE NO. **PE-TSP121620-B606UPWIND** 12/16/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401400	40 0	40.0	40.0	12/16/20 07 15	12/16/20 14 30	435	492.8	TSP	1132.80

SAMPLE NO. **PE-TSP1201620-12ADOWNWIND** 12/16/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401602	40.0	40 0	40.0	12/16/20 07 35	12/16/20 14 40	425	481.4	TSP	1132.80

SAMPLE NO. **PE-PM10121620-B606UPWIND** 12/16/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401601	40.0	40.0	40.0	12/16/20 07 15	12/16/20 14 30	435	492.8	PM-10	1132.80

SAMPLE NO. **PE-PM10121620-12ADOWNWIND** 12/16/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401603	38.0	38 0	38.0	12/16/20 08 45	12/16/20 14 40	355	382.0	PM-10	1076.16

SAMPLE NO. **PE-TSP121820-B606UPWIND** 12/18/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401399	40.0	40.0	40.0	12/18/20 07 05	12/18/20 14 55	470	532.4	TSP	1132.80

SAMPLE NO. **PE-TSP121820-12ADOWNWIND** 12/18/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401397	40.0	40.0	40.0	12/18/20 07 30	12/18/20 15 00	450	509.8	TSP	1132.80

SAMPLE NO. **PE-PM10121820-B606UPWIND** 12/18/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401398	40 0	40.0	40.0	12/18/20 07 05	12/18/20 14 55	470	532.4	PM-10	1132.80

SAMPLE NO. **PE-PM10121820-12ADOWNWIND** 12/18/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0401608	40 0	40 0	40.0	12/18/20 08 54	12/18/20 15 00	366	414.6	PM-10	1132.80

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-46993-1

Login Number: 46993

List Source: Eurofins Calscience

List Number: 1

Creator: Patel, Jayesh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-47069-1
Client Project/Site: HPNS - Parcel E / 500712

For:
Aptim Federal Services LLC
Hunters Point Shipyard
200 Fisher Blvd
San Francisco, California 94124

Attn: Rose Condit

Terri Chang

Authorized for release by:
1/11/2021 6:06:04 PM

Terri Chang, Project Manager I
(714)895-5494
Terri.Chang@eurofinset.com

Table of Contents

Definitions/Glossary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-47069-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-47069-1

Job ID: 570-47069-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-47069-1

Comments
No additional comments.

Receipt
The samples were received on 12/24/2020 10:05 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 22.0º C.

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): PE-ASB122220-BLANK (570-47069-5). The container labels list 7:15, while the COC lists 6:55.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Lab Admin
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - Low Flow: This method was subcontracted to EMSL - LA Testing - Huntington Beach. The subcontract laboratory certification is different from that of the facility issuing the final report.

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP122120-B606UPWIND
Date Collected: 12/21/20 07:17
Date Received: 12/24/20 10:05
Sample Container: Folder/Filter

Lab Sample ID: 570-47069-6
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**9.58**	**J**	18.0	6.22	ug/Sample		01/07/21 15:00	01/08/21 12:18	1
Lead	**9.22**	**J**	12.0	3.16	ug/Sample		01/07/21 15:00	01/08/21 12:18	1
Manganese	**12.3**		6.00	3.34	ug/Sample		01/07/21 15:00	01/08/21 12:18	1

Client Sample ID: PE-TSP122120-12ADOWNWIND
Date Collected: 12/21/20 07:40
Date Received: 12/24/20 10:05
Sample Container: Folder/Filter

Lab Sample ID: 570-47069-7
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		01/07/21 15:00	01/08/21 12:22	1
Lead	ND		12.0	3.16	ug/Sample		01/07/21 15:00	01/08/21 12:22	1
Manganese	**4.78**	**J**	6.00	3.34	ug/Sample		01/07/21 15:00	01/08/21 12:22	1

Client Sample ID: PE-TSP122220-B606UPWIND
Date Collected: 12/22/20 06:55
Date Received: 12/24/20 10:05
Sample Container: Folder/Filter

Lab Sample ID: 570-47069-10
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		01/07/21 15:00	01/08/21 12:25	1
Lead	ND		12.0	3.16	ug/Sample		01/07/21 15:00	01/08/21 12:25	1
Manganese	**8.50**		6.00	3.34	ug/Sample		01/07/21 15:00	01/08/21 12:25	1

Client Sample ID: PE-TSP122220-12ADOWNWIND
Date Collected: 12/22/20 07:13
Date Received: 12/24/20 10:05
Sample Container: Folder/Filter

Lab Sample ID: 570-47069-11
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.55**	**J**	18.0	6.22	ug/Sample		01/07/21 15:00	01/08/21 12:28	1
Lead	ND		12.0	3.16	ug/Sample		01/07/21 15:00	01/08/21 12:28	1
Manganese	**4.62**	**J**	6.00	3.34	ug/Sample		01/07/21 15:00	01/08/21 12:28	1

General Chemistry

Client Sample ID: PE-TSP122120-B606UPWIND
Date Collected: 12/21/20 07:17
Date Received: 12/24/20 10:05
Sample Container: Folder/Filter

Lab Sample ID: 570-47069-6
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	35.1		5.98	5.98	ug/m3			12/30/20 12:01	1

Client Sample ID: PE-TSP122120-12ADOWNWIND
Date Collected: 12/21/20 07:40
Date Received: 12/24/20 10:05
Sample Container: Folder/Filter

Lab Sample ID: 570-47069-7
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	25.4		6.46	6.46	ug/m3			12/30/20 12:01	1

Client Sample ID: PE-PM10122120-B606UPWIND
Date Collected: 12/21/20 07:17
Date Received: 12/24/20 10:05
Sample Container: Folder/Filter

Lab Sample ID: 570-47069-8
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	20.7		5.98	5.98	ug/m3			12/30/20 12:16	1

Client Sample ID: PE-PM10122120-12ADOWNWIND
Date Collected: 12/21/20 08:09
Date Received: 12/24/20 10:05
Sample Container: Folder/Filter

Lab Sample ID: 570-47069-9
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	11.8		6.95	6.95	ug/m3			12/30/20 12:16	1

Client Sample ID: PE-TSP122220-B606UPWIND
Date Collected: 12/22/20 06:55
Date Received: 12/24/20 10:05
Sample Container: Folder/Filter

Lab Sample ID: 570-47069-10
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	7.44		6.03	6.03	ug/m3			12/30/20 12:01	1

Client Sample ID: PE-TSP122220-12ADOWNWIND
Date Collected: 12/22/20 07:13
Date Received: 12/24/20 10:05
Sample Container: Folder/Filter

Lab Sample ID: 570-47069-11
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	ND		6.13	6.13	ug/m3			12/30/20 12:01	1

Client Sample ID: PE-PM10122220-B606UPWIND
Date Collected: 12/22/20 06:55
Date Received: 12/24/20 10:05
Sample Container: Folder/Filter

Lab Sample ID: 570-47069-12
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		6.03	6.03	ug/m3			12/30/20 12:16	1

Client Sample ID: PE-PM10122220-12ADOWNWIND
Date Collected: 12/22/20 07:13
Date Received: 12/24/20 10:05
Sample Container: Folder/Filter

Lab Sample ID: 570-47069-13
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		6.13	6.13	ug/m3			12/30/20 12:16	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-120857/1-A
Matrix: Air
Analysis Batch: 121162

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 120857

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		01/07/21 15:00	01/08/21 11:45	1
Lead	ND		12.0	3.16	ug/Sample		01/07/21 15:00	01/08/21 11:45	1
Manganese	ND		6.00	3.34	ug/Sample		01/07/21 15:00	01/08/21 11:45	1

Lab Sample ID: LCS 570-120857/2-A
Matrix: Air
Analysis Batch: 121162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120857

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	600	576.9		ug/Sample		96	80 - 120
Lead	600	583.3		ug/Sample		97	80 - 120
Manganese	600	580.5		ug/Sample		97	80 - 120

Lab Sample ID: LCSD 570-120857/3-A
Matrix: Air
Analysis Batch: 121162

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 120857

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	600	585.6		ug/Sample		98	80 - 120	1	20
Lead	600	591.4		ug/Sample		99	80 - 120	1	20
Manganese	600	601.3		ug/Sample		100	80 - 120	4	20

Lab Sample ID: 570-47068-A-6-D MS
Matrix: Air
Analysis Batch: 121162

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 120857

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		600	574.0		ug/Sample		96	75 - 125
Lead	12.3		600	613.3		ug/Sample		100	75 - 125
Manganese	57.5		600	634.8		ug/Sample		96	75 - 125

Lab Sample ID: 570-47068-A-6-E MSD
Matrix: Air
Analysis Batch: 121162

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 120857

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		600	574.5		ug/Sample		96	75 - 125	0	20
Lead	12.3		600	603.7		ug/Sample		99	75 - 125	2	20
Manganese	57.5		600	642.9		ug/Sample		98	75 - 125	1	20

Method: 40CFR50 App B - Suspended Particulate Matter in Ambient Air

Lab Sample ID: MB 570-119467/1-A
Matrix: Air
Analysis Batch: 119469

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	ND		1.23	1.23	ug/m3			12/30/20 12:01	1

Method: 40CFR50 App B - Suspended Particulate Matter in Ambient Air (Continued)

Lab Sample ID: 570-47068-A-6-B DU
Matrix: Air
Analysis Batch: 119469

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	51.1			51.09		ug/m3				0	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-119475/1
Matrix: Air
Analysis Batch: 119475

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		1.23	1.23	ug/m3			12/30/20 12:16	1

Lab Sample ID: 570-47068-A-8 DU
Matrix: Air
Analysis Batch: 119475

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	17.0			17.03		ug/m3				0	25

QC Association Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-47069-1

Metals

Prep Batch: 120857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-47069-6	PE-TSP122120-B606UPWIND	Total/NA	Air	3050B	
570-47069-7	PE-TSP122120-12ADOWNWIND	Total/NA	Air	3050B	
570-47069-10	PE-TSP122220-B606UPWIND	Total/NA	Air	3050B	
570-47069-11	PE-TSP122220-12ADOWNWIND	Total/NA	Air	3050B	
MB 570-120857/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-120857/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-120857/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-47068-A-6-D MS	Matrix Spike	Total/NA	Air	3050B	
570-47068-A-6-E MSD	Matrix Spike Duplicate	Total/NA	Air	3050B	

Analysis Batch: 121162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-47069-6	PE-TSP122120-B606UPWIND	Total/NA	Air	6010B	120857
570-47069-7	PE-TSP122120-12ADOWNWIND	Total/NA	Air	6010B	120857
570-47069-10	PE-TSP122220-B606UPWIND	Total/NA	Air	6010B	120857
570-47069-11	PE-TSP122220-12ADOWNWIND	Total/NA	Air	6010B	120857
MB 570-120857/1-A	Method Blank	Total/NA	Air	6010B	120857
LCS 570-120857/2-A	Lab Control Sample	Total/NA	Air	6010B	120857
LCSD 570-120857/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	120857
570-47068-A-6-D MS	Matrix Spike	Total/NA	Air	6010B	120857
570-47068-A-6-E MSD	Matrix Spike Duplicate	Total/NA	Air	6010B	120857

General Chemistry

Pre Prep Batch: 119467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-47069-6	PE-TSP122120-B606UPWIND	Total/NA	Air	Filter to Air	
570-47069-7	PE-TSP122120-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-47069-10	PE-TSP122220-B606UPWIND	Total/NA	Air	Filter to Air	
570-47069-11	PE-TSP122220-12ADOWNWIND	Total/NA	Air	Filter to Air	
MB 570-119467/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-47068-A-6-B DU	Duplicate	Total/NA	Air	Filter to Air	

Analysis Batch: 119469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-47069-6	PE-TSP122120-B606UPWIND	Total/NA	Air	40CFR50 App B	119467
570-47069-7	PE-TSP122120-12ADOWNWIND	Total/NA	Air	40CFR50 App B	119467
570-47069-10	PE-TSP122220-B606UPWIND	Total/NA	Air	40CFR50 App B	119467
570-47069-11	PE-TSP122220-12ADOWNWIND	Total/NA	Air	40CFR50 App B	119467
MB 570-119467/1-A	Method Blank	Total/NA	Air	40CFR50 App B	119467
570-47068-A-6-B DU	Duplicate	Total/NA	Air	40CFR50 App B	119467

Analysis Batch: 119475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-47069-8	PE-PM10122120-B606UPWIND	Total/NA	Air	PM10	
570-47069-9	PE-PM10122120-12ADOWNWIND	Total/NA	Air	PM10	
570-47069-12	PE-PM10122220-B606UPWIND	Total/NA	Air	PM10	
570-47069-13	PE-PM10122220-12ADOWNWIND	Total/NA	Air	PM10	
MB 570-119475/1	Method Blank	Total/NA	Air	PM10	
570-47068-A-8 DU	Duplicate	Total/NA	Air	PM10	

BALANCE CALIBRATION CHECK LOG

Eurofins Calscience

Date performed: 12/30/20 Initials: AAA

ID	Class 2 Weight (g)	Reading (g)	Acceptance Range	Pass? (circle one)	Comment (If not passed, note removal or corrective action)
83	1	1.00	0.98 - 1.02	Y N	IO Lab
	100	99.99	98.00 - 102.00	Y N	
62	0.002	0.0016	0.0015 - 0.0025	Y N	IO Lab
	1	0.9994	0.9990 - 1.0010	Y N	
	100	99.9918	99.9000 - 100.1000	Y N	
11	1	1.00	0.98 - 1.02	Y N	IO Lab
	100	99.99	98.00 - 102.00	Y N	
55	1	0.99	0.98 - 1.02	Y N	IO Lab
	100	99.98	98.00 - 102.00	Y N	
	500	499.96	490.00 - 510.00	Y N	
86	1	1.00	0.98 - 1.02	Y N	IO Lab
	100	99.99	98.00 - 102.00	Y N	
	500	499.99	490.00 - 510.00	Y N	
71	0.002	0.0021	0.0015 - 0.0025	Y N	BOD Room
	1	0.9992	0.9990 - 1.0010	Y N	
	100	99.9875	99.9000 - 100.1000	Y N	
63	0.1		0.08 - 0.12	Y N	BOD Room
	100		98.00 - 102.00	Y N	
73	0.1	0.10	0.08 - 0.12	Y N	Oil & Grease Room
	1	0.99	0.98 - 1.02	Y N	
	100	99.99	98.00 - 102.00	Y N	
87	0.002	0.0018	0.0015 - 0.0025	Y N	Solids Room
	1	0.9991	0.9990 - 1.0010	Y N	
	100	99.9920	99.9000 - 100.1000	Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

Comments:

WT SET ID USED: 2 mg 10001851861	**COMMENT:**
WT SET ID USED: 10 mg - 100 g 1000013239	
WT SET ID USED: 500 g 69073	

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-47069-1

Client Sample ID: PE-TSP122120-B606UPWIND
Lab Sample ID: 570-47069-6
Date Collected: 12/21/20 07:17
Matrix: Air
Date Received: 12/24/20 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	120857	01/07/21 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			121162	01/08/21 12:18	EMS	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					119467	12/30/20 12:01	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			119469	12/30/20 12:01	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP122120-12ADOWNWIND
Lab Sample ID: 570-47069-7
Date Collected: 12/21/20 07:40
Matrix: Air
Date Received: 12/24/20 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	120857	01/07/21 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			121162	01/08/21 12:22	EMS	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					119467	12/30/20 12:01	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			119469	12/30/20 12:01	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10122120-B606UPWIND
Lab Sample ID: 570-47069-8
Date Collected: 12/21/20 07:17
Matrix: Air
Date Received: 12/24/20 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3397 g	4.3501 g	119475	12/30/20 12:16	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10122120-12ADOWNWIND
Lab Sample ID: 570-47069-9
Date Collected: 12/21/20 08:09
Matrix: Air
Date Received: 12/24/20 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3279 g	4.3330 g	119475	12/30/20 12:16	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP122220-B606UPWIND
Lab Sample ID: 570-47069-10
Date Collected: 12/22/20 06:55
Matrix: Air
Date Received: 12/24/20 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	120857	01/07/21 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			121162	01/08/21 12:25	EMS	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					119467	12/30/20 12:01	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			119469	12/30/20 12:01	UWCT	ECL 1
	Instrument ID: BAL62									

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-47069-1

Client Sample ID: PE-TSP122220-12ADOWNWIND
Lab Sample ID: 570-47069-11
Date Collected: 12/22/20 07:13
Matrix: Air
Date Received: 12/24/20 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	120857	01/07/21 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			121162	01/08/21 12:28	EMS	ECL 1
	Instrument ID: ICP9									
Total/NA	Pre Prep	Filter to Air					119467	12/30/20 12:01	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			119469	12/30/20 12:01	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10122220-B606UPWIND
Lab Sample ID: 570-47069-12
Date Collected: 12/22/20 06:55
Matrix: Air
Date Received: 12/24/20 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3293 g	4.3300 g	119475	12/30/20 12:16	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10122220-12ADOWNWIND
Lab Sample ID: 570-47069-13
Date Collected: 12/22/20 07:13
Matrix: Air
Date Received: 12/24/20 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3658 g	4.3677 g	119475	12/30/20 12:16	UWCT	ECL 1
	Instrument ID: BAL62									

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

EMSL = EMSL - LA Testing - Huntington Beach, 5431 Industrial Drive, Huntington Beach, CA 92649

Accreditation/Certification Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-47069-1

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-30-21
California	SCAQMD LAP	17LA0919	11-30-21
California	State	2944	09-30-21
Guam	State	20-003R	10-31-20 *
Nevada	State	CA00111	07-31-21
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-47069-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	ECL 1
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	ECL 1
PM10	Particulate Matter	40CFR50J	ECL 1
NIOSH 7400 Rev	NIOSH 7400 Rev. 3	NIOSH	EMSL
3050B	Preparation, Metals	SW846	ECL 1
Filter to Air	Filter to Air volume ratio	None	ECL 1

Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

NIOSH = NIOSH Manual Of Analytical Methods, National Institute For Occupational Safety And Health, 4th Edition, August 1994 and it's Supplements

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

EMSL = EMSL - LA Testing - Huntington Beach, 5431 Industrial Drive, Huntington Beach, CA 92649

Sample Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-47069-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-47069-1	PE-ASB122120-B606UPWIND	Air	12/21/20 07:17	12/24/20 10:05	
570-47069-2	PE-ASB122120-12ADOWNWIND	Air	12/21/20 07:40	12/24/20 10:05	
570-47069-3	PE-ASB122220-B606UPWIND	Air	12/22/20 06:55	12/24/20 10:05	
570-47069-4	PE-ASB122220-12ADOWNWIND	Air	12/22/20 07:13	12/24/20 10:05	
570-47069-5	PE-ASB122220-BLANK	Air	12/22/20 06:55	12/24/20 10:05	
570-47069-6	PE-TSP122120-B606UPWIND	Air	12/21/20 07:17	12/24/20 10:05	
570-47069-7	PE-TSP122120-12ADOWNWIND	Air	12/21/20 07:40	12/24/20 10:05	
570-47069-8	PE-PM10122120-B606UPWIND	Air	12/21/20 07:17	12/24/20 10:05	
570-47069-9	PE-PM10122120-12ADOWNWIND	Air	12/21/20 08:09	12/24/20 10:05	
570-47069-10	PE-TSP122220-B606UPWIND	Air	12/22/20 06:55	12/24/20 10:05	
570-47069-11	PE-TSP122220-12ADOWNWIND	Air	12/22/20 07:13	12/24/20 10:05	
570-47069-12	PE-PM10122220-B606UPWIND	Air	12/22/20 06:55	12/24/20 10:05	
570-47069-13	PE-PM10122220-12ADOWNWIND	Air	12/22/20 07:13	12/24/20 10:05	

LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

http://www.LATesting.com / gardengrovelab@latesting.com

LA Testing Order: 332023635
Customer ID: 32CALS51
Customer PO:
Project ID:

Attention: Terri Chang
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841

Phone: (714) 895-5494
Fax: (714) 894-7501
Received Date: 12/30/2020 03:25 PM
Analysis Date: 01/11/2021
Collected Date: 12/21/2020 - 12/22/2020

Project: HPNS - Parcel E / 500712 / 57003235

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 3, 6/15/2019

Sample	*Location*	*Sample Date*	*Volume (L)*	*Fibers*	*Fields*	*LOD (fib/cc)*	*Fibers/mm²*	*Fibers/cc*	*Notes*
PE-ASB122120-B606UPW IND (570-47069-1) *332023635-0001*		12/21/2020	1802	<5.5	100	0.0015	<7.01	<0.0015	
PE-ASB122120-12ADOW NWIND (570-47069-2) *332023635-0002*		12/21/2020	1900	<5.5	100	0.0014	<7.01	<0.0014	
PE-ASB122220-B606UPW IND (570-47069-3) *332023635-0003*		12/22/2020	1118	<5.5	100	0.0024	<7.01	<0.0024	
PE-ASB122220-12ADOW NWIND (570-47069-4) *332023635-0004*		12/22/2020	1104	<5.5	100	0.0025	<7.01	<0.0025	
PE-ASB122220-BLANK (570-47069-5) *332023635-0005*		12/22/2020		<5.5	100		<7.01		Field Blank

The results reported have been blank corrected as applicable.

Analyst(s):
Brian Magumcia PCM 5

Michael Chapman, Laboratory Manager
or other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Limit of detection is 7 fibers/mm². Fiber counts outside the recommended fiber density range of the method (100-1300 f/mm2) have greater than optimal variability and are probably biased. Field blank results, when available, are used to blank correct results. NIOSH 7400 requires field blanks be submitted at a rate of 10%, with a minimum of 2 per set. Measurement of uncertainty available upon request. The results in this report meet all requirements of the NELAC standards unless otherwise noted.
Intra-laboratory Sr values: 5-20 fibers = 0.35, 21-50 fibers = 0.24, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.34.
Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--IHLAP Accredited #101650

Initial report from: 01/11/2021 11:58 AM

47069

570-47069 Chain of Custody

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 040

Page 1 of 2

APTIM Federal Services, LLC

4005 Port Chicago Hwy

Concord, CA 94520

Project Number: 500712

Project Name: HPNS - Parcel E

Project Location: San Francisco, CA

Purchase Order #: 115718

Lab Destination: Eurofins-Calscience

7440 Lincoln Way

Garden Grove CA 92841

Lab Contact: Terri Chang

Project Manager: *Nels Johnson*

Send Report To: *Jose Maldonado*

Phone/Fax Number: *415-340-9637*

Address: *4005 Port Chicago Hwy*

City: *Concord, CA 94520*

Jose Maldonado@aptim.com

Sampler's Name(s): ER

Sample ID Number	Filter No.	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J, BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOSH 7300/6010B)	Flow Rate (L/min.)	Sample Volume (m^3)			
								Analyses Requested									
PE-ASB122120-B606UPWIND	CX737979	12/21/20	7 17	G	A	1	PCM			X			2.00	1.80			
PE-ASB122120-12ADOWNWIND	CX737895	12/21/20	7 40	G	A	1	PCM			X			2.00	1.90			
PE-ASB122220-B606UPWIND	CX737852	12/22/20	6 55	G	A	1	PCM			X			2.00	1.12			
PE-ASB122220-12ADOWNWIND	CX737997	12/22/20	7 13	G	A	1	PCM			X			2.00	1.10			
PE-ASB122220-BLANK	CX737837	12/22/20	6 55	G	A	1	PCM			X			NA				
Temperature Blank																	X

Special Instructions: J to MDL

Turn Around Time: ☐ 24-hr ☐ 5-day ☑ 10-day

Level Of QC Required: I | II | III Project Specific.

Relinquished By	Date/Time	Received By	Date/Time
Jose Maldonado	Date: 12/23/2020 Time:	UPS	Date: 12/23/2020 Time: 11 00 am
		AWB: 1Z89V 462 0198 0707 62	
	Date: Time:		Date: 12/24/2020 Time: 12/24/2020 10·05 MT
	Date: Time:		Date: Time:
	Date: Time:		Date: Time:

Method Codes

C = Composite G = Grab

Matrix Codes

DW = Drinking Water SL = Sludge

GW = Ground Water CP = Chip Samples

WW = Waste Water

A=Air

ABS=Asbestos, PO=Pipe Opening

47069

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 040

Page 2 of 2

APTIM Federal Services, LLC
4005 Port Chicago Hwy
Concord, CA 94520

Send Report To: *Jose Maldonado*
Phone/Fax Number: *415-340-9637*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
Jose Maldonado@aptim com

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Sampler's Name(s): ER

Sample ID Number	Lot No.	Collection Information			Matrix	# of containers	Container Type	Analyses Requested									
		Date	Time	Method				PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOSH	Flow Rate (L/min.)	Sample Volume (m^3)			
PE-TSP122120-B606UPWIND	Q0409901	12/21/20	7 17	G	A	1	8X10 EPM Whatman					X	1132.8	501.8			
PE-TSP122120-12ADOWNWIND	Q0409903	12/21/20	7 40	G	A	1	8X10 EPM Whatman					X	1132.8	464.4			
PE-PM10122120-B606UPWIND	Q0409902	12/21/20	7 17	G	A	1	8X10 EPM Whatman				X		1132.8	501.8			
PE-PM10122120-12ADOWNWIND	Q0409904	12/21/20	8 09	G	A	1	8X10 EPM Whatman				X		1132.8	431.6			
PE-TSP122220-B606UPWIND	Q0409908	12/22/20	6 55	G	A	1	8X10 EPM Whatman					X	1132.8	497.3			
PE-TSP122220-12ADOWNWIND	Q0409906	12/22/20	7 13	G	A	1	8X10 EPM Whatman					X	1132.8	489.4			
PE-PM10122220-B606UPWIND	Q0409907	12/22/20	6 55	G	A	1	8X10 EPM Whatman				X		1132.8	497.3			
PE-PM10122220-12ADOWNWIND	Q0409905	12/22/20	7 13	G	A	1	8X10 EPM Whatman				X		1132.8	489.4			

47069

AIR MONITORING LOG

PROJECT NAME: HPNS Parcel E **PROJ. NO.** 500712 Asbestos TSP PM-10

STATION **COC# 040**

SAMPLE NO. PE-ASB122120-B606UPWIND 12/21/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX737979	2 000	2 000	2.000	12/21/20 07 17	12/21/20 22 18	901	1 80	Asbestos	2 00

SAMPLE NO. PE-ASB122120-12ADOWNWIND 12/21/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX737895	2 000	2 000	2 000	12/21/20 07 40	12/21/20 23 30	950	1 90	Asbestos	2.00

SAMPLE NO. PE-ASB122220-B606UPWIND 12/22/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX737852	2 000	2 000	2.000	12/22/20 06 55	12/22/20 16 14	559	1 12	Asbestos	2 00

SAMPLE NO. PE-ASB122220-12ADOWNWIND 12/22/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX737997	2 000	2 000	2 000	12/22/20 07 13	12/22/20 16 25	552	1 10	Asbestos	2.00

SAMPLE NO. PE-ASB122220-BLANK 12/22/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX737837				12/22/20 06 55			0 0	Asbestos	

47069

PROJECT NAME: HPNS Parcel E PROJ. NO. 500712 Asbestos TSP PM-10

STATION COC# 040

SAMPLE NO. PE-TSP122120-B606UPWIND 12/21/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409901	40 0	40 0	40.0	12/21/20 07 17	12/21/20 14 40	443	501 8	TSP	1132.80

SAMPLE NO. PE-TSP122120-12ADOWNWIND 12/21/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409903	40 0	40 0	40.0	12/21/20 07 40	12/21/20 14 30	410	464 4	TSP	1132.80

SAMPLE NO. PE-PM10122120-B606UPWIND 12/21/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409902	40 0	40 0	40.0	12/21/20 07 17	12/21/20 14 40	443	501 8	PM-10	1132.80

SAMPLE NO. PE-PM10122120-12ADOWNWIND 12/21/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409904	40 0	40 0	40.0	12/21/20 08 09	12/21/20 14 30	381	431 6	PM-10	1132 80

SAMPLE NO. PE-TSP122220-B606UPWIND 12/22/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409908	40 0	40 0	40.0	12/22/20 06 55	12/22/20 14 14	439	497 3	TSP	1132.80

SAMPLE NO. PE-TSP122220-12ADOWNWIND 12/22/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409906	40 0	40 0	40.0	12/22/20 07 13	12/22/20 14 25	432	489 4	TSP	1132 80

SAMPLE NO. PE-PM10122220-B606UPWIND 12/22/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409907	40 0	40.0	40 0	12/22/20 06 55	12/22/20 14 14	439	497 3	PM-10	1132.80

SAMPLE NO. PE-PM10122220-12ADOWNWIND 12/22/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				

4 7069

Q0409905	40.0	40.0	40.0	12/22/20 07 13	12/22/20 14 25	432	489.4	PM-10	1132 80

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-47069-1

Login Number: 47069
List Number: 1
Creator: Ramos, Maribel

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-47778-1
Client Project/Site: HPNS - Parcel E / 500712

For:
Aptim Federal Services LLC
Hunters Point Shipyard
200 Fisher Blvd
San Francisco, California 94124

Attn: Rose Condit

Terri Chang

Authorized for release by:
1/20/2021 10:33:45 AM

Terri Chang, Project Manager I
(714)895-5494
Terri.Chang@eurofinset.com

Table of Contents

Case Narrative

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-47778-1

Job ID: 570-47778-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-47778-1

Comments
No additional comments.

Receipt
The samples were received on 1/6/2021 11:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 22.0º C.

Lab Admin
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - Low Flow: This method was subcontracted to EMSL - LA Testing - Huntington Beach. The subcontract laboratory certification is different from that of the facility issuing the final report.

Sample Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-47778-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-47778-1	PE-ASB122320-B606UPWIND	Air	12/23/20 07:40	01/06/21 11:00	
570-47778-2	PE-ASB122320-12ADOWNWIND	Air	12/23/20 08:00	01/06/21 11:00	
570-47778-3	PE-ASB122820-B606UPWIND	Air	12/28/20 07:58	01/06/21 11:00	
570-47778-4	PE-ASB122820-12ADOWNWIND	Air	12/28/20 08:05	01/06/21 11:00	
570-47778-5	PE-ASB122920-B606UPWIND	Air	12/29/20 07:45	01/06/21 11:00	
570-47778-6	PE-ASB122920-12ADOWNWIND	Air	12/29/20 07:56	01/06/21 11:00	
570-47778-7	PE-ASB123020-B606UPWIND	Air	12/30/20 07:48	01/06/21 11:00	
570-47778-8	PE-ASB123020-12ADOWNWIND	Air	12/30/20 07:55	01/06/21 11:00	
570-47778-9	PE-ASB123120-B606UPWIND	Air	12/31/20 07:31	01/06/21 11:00	
570-47778-10	PE-ASB123120-12ADOWNWIND	Air	12/31/20 07:40	01/06/21 11:00	
570-47778-11	PE-ASB123120-BLANK	Air	12/31/20 07:31	01/06/21 11:00	

LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

http://www.LATesting.com / gardengrovelab@latesting.com

LA Testing Order: 332100320
Customer ID: 32CALS51
Customer PO:
Project ID:

Attention: Terri Chang
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841

Phone: (714) 895-5494
Fax: (714) 894-7501
Received Date: 01/07/2021 01:10 PM
Analysis Date: 01/20/2021
Collected Date: 12/23/2020 - 12/31/2020

Project: 570-47778: HPNS - Parcel E / 500712

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 3, 6/15/2019

Sample	*Location*	*Sample Date*	*Volume (L)*	*Fibers*	*Fields*	*LOD (fib/cc)*	*Fibers/mm²*	*Fibers/cc*	*Notes*
PE-ASB122320-B606UPWIND (570-47778-1) *332100320-0001*		12/23/2020	740	<5.5	100	0.0036	<7.01	<0.0036	
PE-ASB122320-12ADOWNWIND (570-47778-2) *332100320-0002*		12/23/2020	710	<5.5	100	0.0038	<7.01	<0.0038	
PE-ASB122820-B606UPWIND (570-47778-3) *332100320-0003*		12/28/2020	1890	11.5	100	0.0014	14.6	0.0030	
PE-ASB122820-12ADOWNWIND (570-47778-4) *332100320-0004*		12/28/2020	1490	15	100	0.0018	19.1	0.0049	
PE-ASB122920-B606UPWIND (570-47778-5) *332100320-0005*		12/29/2020	1520	<5.5	100	0.0018	<7.01	<0.0018	Sample pulled for 10% recount
PE-ASB122920-12ADOWNWIND (570-47778-6) *332100320-0006*		12/29/2020	1380	<5.5	100	0.0020	<7.01	<0.0020	
PE-ASB123020-B606UPWIND (570-47778-7) *332100320-0007*		12/30/2020	1750	<5.5	100	0.0015	<7.01	<0.0015	
PE-ASB123020-12ADOWNWIND (570-47778-8) *332100320-0008*		12/30/2020	1700	<5.5	100	0.0016	<7.01	<0.0016	
PE-ASB123020-B606UPWIND (570-47778-9) *332100320-0009*		12/31/2020	1920	<5.5	100	0.0014	<7.01	<0.0014	
PE-ASB123120-12ADOWNWIND (570-47778-10) *332100320-0010*		12/31/2020	1310	<5.5	100	0.0021	<7.01	<0.0021	
PE-ASB123120-BLANK (570-47778-11) *332100320-0011*		12/31/2020		<5.5	100		<7.01		Field Blank
PE-ASB122920-B606UPWIND (570-47778-5) *332100320-0012*		12/29/2020	1520	<5.5	100	0.0018	<7.01	<0.0018	10% Recount; Individual-CV=0.35

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Limit of detection is 7 fibers/mm². Fiber counts outside the recommended fiber density range of the method (100-1300 f/mm2) have greater than optimal variability and are probably biased. Field blank results, when available, are used to blank correct results. NIOSH 7400 requires field blanks be submitted at a rate of 10%, with a minimum of 2 per set. Measurement of uncertainty available upon request. The results in this report meet all requirements of the NELAC standards unless otherwise noted.
Intra-laboratory Sr values: 5-20 fibers = 0.35, 21-50 fibers = 0.24, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.34.
Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--IHLAP Accredited #101650

Initial report from: 01/20/2021 09:51 AM

LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

http://www.LATesting.com / gardengrovelab@latesting.com

LA Testing Order: 332100320
Customer ID: 32CALS51
Customer PO:
Project ID:

Attention: Terri Chang
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841

Phone: (714) 895-5494
Fax: (714) 894-7501
Received Date: 01/07/2021 01:10 PM
Analysis Date: 01/20/2021
Collected Date: 12/23/2020 - 12/31/2020

Project: 570-47778: HPNS - Parcel E / 500712

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 3, 6/15/2019

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm²	Fibers/cc	Notes

The results reported have been blank corrected as applicable.

Analyst(s):
Brittany Quiring PCM 12

Michael Chapman, Laboratory Manager
or other Approved Signatory

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Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--IHLAP Accredited #101650

Initial report from: 01/20/2021 09:51 AM

4778

APTIM 570-47778 Chain of Custody

CHAIN OF CUSTODY

Ref. Document # CTO 0024 AIR 041

Page 1 of 2

APTIM Federal Services, LLC

4005 Port Chicago Hwy

Concord, CA 94520

Project Number 500712

Project Name HPNS Parcel E

Project Location San Francisco, CA

Purchase Order # 115718

Lab Destination Eurofins-Calscience

7440 Lincoln Way

Garden Grove CA 92841

Lab Contact: Tern Chang

Project Manager *Nels Johnson*

Send Report To: *Jose Maldonado*

Phone/Fax Number: *415-340-9637*

Address *4005 Port Chicago Hwy*

City *Concord, CA 94520*

Jose Maldonado@aptim com

Sampler's Name(s): ER

	Sample ID Number	Filter No.	Collection Information Date	Time	Method	Matrix	# of containers	Container Type	Analyses Requested: PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J BAAQMD Reg 6)	TSP Mn Pb, As (40 CFR 50 App B, NIOSH 7300/6010B)	Flow Rate (L/min.)	Sample Volume (m^3)			
1	PE-ASB122320-B606I PWIND	CX737594	12/23/20	7 40	G	A	1	PCM			X			2 00	0.74			
2	PE ASB122320-12ADOWNWIND	CX737622	12/23/20	8 00	G	A	1	PCM			X			2.00	0.71			
3	PE-ASB122820-B606I PWIND	CX737611	12/28/20	7 58	G	A	1	PCM			X			2.00	1.89			
4	PE-ASB122820-12ADOWNWIND	CX737625	12/28/20	8 05	G	A	1	PCM			X			2 00	1.49			
5	PE-ASB122920-B606UPWIND	CX737592	12/29/20	7 45	G	A	1	PCM			X			2.00	1 52			
6	PE-ASB122920-12ADOWNWIND	CX737618	12/29/20	7 56	G	A	1	PCM			X			2 00	1.38			
7	PE-ASB123020-B606UPWIND	CX737598	12/30/20	7 48	G	A	1	PCM			X			2.00	1 75			
8	PE-ASB123020-12ADOWNWIND	CX737897	12/30/20	7 55	G	A	1	PCM			X			2.00	1 70			
9	PE-ASB123120-B606UPWIND	CX737637	12/31/20	7 31	G	A	1	PCM			X			2 00	1 92			
10	PE-ASB123120-12ADOWNWIND	CX737641	12/31/20	7 40	G	A	1	PCM			X			2.00	1.31			
11	PE-ASB123120-BLANK	CX737621	12/31/20	7 31	G	A	1	PCM			X			NA				
	Temperature Blank																	x

Special Instructions J to MDL

Turn Around Time: ☐ 4-hr ☐ 5-day ☑ 10-day

Level Of QC Required: I ☐ II ☐ III ☐ Project Specific

Relinquished By Jose Maldonado	Date 1/05/2021	Received By	Date 1-5-21
	Time 10:15		Time 10:15
Relinquished By	Date 1/5/20	Received By	Date 1/6/21
	Time 1630		Time 11:30
Relinquished By	Date	Received By	Date
	Time		Time
Relinquished By	Date	Received By	Date
	Time		Time

Method Codes

C Composite G Grab

Matrix Codes

DW Drinking Water SO =Soil

GW Ground Water SL Sludge

WW Waste Water CP Chip Sample

A–Air

ABS–Asbestos PO=Pipe Opening

AIR MONITORING LOG

PROJECT NAME HPNS Parcel E PROJ NO 500712 Asbestos TSP PM-10

STATION COC# 041

SAMPLE NO. **PE-ASB122320-B606UPWIND** 12/23/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX737594	2 000	2 000	2.000	12/23/20 07 40	12/23/20 13 50	370	0 74	Asbestos	2 00

SAMPLE NO **PE-ASB122320-12ADOWNWIND** 12/23/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL (std m^3)	Analysis	Flow Rate (L/min)
	START	STOP	AVERAGE	START	STOP				
CX737622	2 000	2 000	2.000	12/23/20 08 00	12/23/20 13 56	356	0 71	Asbestos	2 00

SAMPLE NO **PE-ASB122820-B606UPWIND** 12/28/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min)
	START	STOP	AVERAGE	START	STOP				
CX737611	2 000	2 000	2.000	12/28/20 07 58	12/28/20 23 41	943	1 89	Asbestos	2.00

SAMPLE NO **PE-ASB122820-12ADOWNWIND** 12/28/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL (std m^3)	Analysis	Flow Rate (L/min)
	START	STOP	AVERAGE	START	STOP				
CX737625	2 000	2 000	2.000	12/28/20 08 05	12/28/20 20 29	744	1 49	Asbestos	2.00

SAMPLE NO **PE-ASB122920-B606UPWIND** 12/29/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL (std m^3)	Analysis	Flow Rate (L/min)
	START	STOP	AVERAGE	START	STOP				
CX737592	2 000	2 000	2.000	12/29/20 07 45	12/29/20 20 23	758	1 52	Asbestos	2 00

SAMPLE NO **PE-ASB122920-12ADOWNWIND** 12/29/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min)
	START	STOP	AVERAGE	START	STOP				
CX737618	2 000	2.000	2 000	12/29/20 07 56	12/29/20 19 28	692	1 38	Asbestos	2.00

SAMPLE NO **PE-ASB123020-B606UPWIND** 12/30/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min)
	START	STOP	AVERAGE	START	STOP				
CX737598	2 000	2 000	2 000	12/30/20 07 48	12/30/20 22 21	873	1 75	Asbestos	2.00

SAMPLE NO. **PE-ASB123020-12ADOWNWIND** 12/30/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX737897	2 000	2 000	2 000	12/30/20 07 55	12/30/20 22 07	852	1 70	Asbestos	2.00

47740

SAMPLE NO **PE-ASB123120-B606UPWIND** 12/31/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min)
	START	STOP	AVERAGE	START	STOP				
CX737637	2 000	2 000	2 000	12/31/20 07 31	12/31/20 23 29	958	1 92	Asbestos	2.00

SAMPLE NO **PE-ASB123120-12ADOWNWIND** 12/31/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CX737641	2 000	2 000	2 0	12/31/20 07 40	12/31/20 18 34	654	1 31	Asbestos	2.00

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-47778-1

Login Number: 47778
List Number: 1
Creator: Ramos, Maribel

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	