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

Interim

Air Sampling Summary Report No. 11

Data Date Range: November 20, 2019 through November 25, 2020, Parcel E Remedial Action—Phase 1

Hunters Point Naval Shipyard, CA

January 2021

DCN: APTM-2005-0024-0082

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Prepared for:

Department of the Navy
Naval Facilities Engineering Systems Command Southwest
BRAC PMO West
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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 November 25, 2020 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

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.

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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

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

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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

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

Notes:
Ambient pressure and ambient temperature data were gathered from the Wunderground weather website (www.wunderground.com).

Ambient pressure and ambient temperature data were gathered from the Ambient Weather website (www.ambientweather.net) starting August 3, 2020. Data were collected from KSFO, San Francisco, San Francisco International Airport and the APTIM Onsite MET Station
°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

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 (µg/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 ($\mu g/m^3$)	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 ($\mu g/m^3$)	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 ($\mu g/m^3$)	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

Attachment 1, Table 3: PM10 Air Sampling Results

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 µg/m^3

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

µg/m^3 - micrograms 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

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.
fibers/cm^3 - fibers per cubic centimeter

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ATTACHMENT 2
ANALYTICAL LABORATORY REPORTS

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ANALYTICAL REPORT

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

Laboratory Job ID: 570-43456-1
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:
11/30/2020 1:30:08 PM

Terri Chang, Project Manager I
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Table of Contents

Definitions/Glossary

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

Job ID: 570-43456-1

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

Job ID: 570-43456-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-43456-1

Comments
No additional comments.

Receipt
The samples were received on 11/11/2020 10:00 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
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-TSP110220-B606UPWIND
Date Collected: 11/02/20 07:03
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Lab Sample ID: 570-43456-14
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.85	J	18.0	6.22	ug/Sample		11/20/20 16:00	11/21/20 01:03	1
Lead	20.9		12.0	3.16	ug/Sample		11/20/20 16:00	11/21/20 01:03	1
Manganese	134		6.00	3.34	ug/Sample		11/20/20 16:00	11/21/20 01:03	1

Client Sample ID: PE-TSP110220-12ADOWNWIND
Date Collected: 11/02/20 07:14
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Lab Sample ID: 570-43456-15
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/20/20 16:00	11/21/20 01:08	1
Lead	17.2		12.0	3.16	ug/Sample		11/20/20 16:00	11/21/20 01:08	1
Manganese	77.2		6.00	3.34	ug/Sample		11/20/20 16:00	11/21/20 01:08	1

Client Sample ID: PE-TSP110320-B606UPWIND
Date Collected: 11/03/20 07:09
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Lab Sample ID: 570-43456-18
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.37	J	18.0	6.22	ug/Sample		11/20/20 16:00	11/21/20 01:10	1
Lead	5.44	J	12.0	3.16	ug/Sample		11/20/20 16:00	11/21/20 01:10	1
Manganese	19.3		6.00	3.34	ug/Sample		11/20/20 16:00	11/21/20 01:10	1

Client Sample ID: PE-TSP110320-12ADOWNWIND
Date Collected: 11/03/20 07:17
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Lab Sample ID: 570-43456-19
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.96	J	18.0	6.22	ug/Sample		11/20/20 16:00	11/21/20 01:12	1
Lead	5.05	J	12.0	3.16	ug/Sample		11/20/20 16:00	11/21/20 01:12	1
Manganese	39.3		6.00	3.34	ug/Sample		11/20/20 16:00	11/21/20 01:12	1

Client Sample ID: PE-TSP110420-B606UPWIND
Date Collected: 11/04/20 07:12
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Lab Sample ID: 570-43456-22
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.83	J	18.0	6.22	ug/Sample		11/20/20 16:00	11/21/20 01:26	1
Lead	16.6		12.0	3.16	ug/Sample		11/20/20 16:00	11/21/20 01:26	1
Manganese	42.0		6.00	3.34	ug/Sample		11/20/20 16:00	11/21/20 01:26	1

Client Sample ID: PE-TSP110420-12ADOWNWIND
Date Collected: 11/04/20 07:25
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Lab Sample ID: 570-43456-23
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11.1	J	18.0	6.22	ug/Sample		11/20/20 16:00	11/21/20 01:27	1
Lead	8.11	J	12.0	3.16	ug/Sample		11/20/20 16:00	11/21/20 01:27	1
Manganese	16.4		6.00	3.34	ug/Sample		11/20/20 16:00	11/21/20 01:27	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP110520-B606UPWIND
Date Collected: 11/05/20 07:13
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Lab Sample ID: 570-43456-26
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/20/20 16:00	11/21/20 01:30	1
Lead	**13.9**		12.0	3.16	ug/Sample		11/20/20 16:00	11/21/20 01:30	1
Manganese	**38.7**		6.00	3.34	ug/Sample		11/20/20 16:00	11/21/20 01:30	1

Client Sample ID: PE-TSP110520-12ADOWNWIND
Date Collected: 11/05/20 07:24
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Lab Sample ID: 570-43456-27
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/20/20 16:00	11/21/20 01:31	1
Lead	**12.0**		12.0	3.16	ug/Sample		11/20/20 16:00	11/21/20 01:31	1
Manganese	**64.2**		6.00	3.34	ug/Sample		11/20/20 16:00	11/21/20 01:31	1

Client Sample ID: PE-TSP110620-B606UPWIND
Date Collected: 11/06/20 07:15
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Lab Sample ID: 570-43456-30
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/20/20 16:00	11/21/20 01:33	1
Lead	**17.2**		12.0	3.16	ug/Sample		11/20/20 16:00	11/21/20 01:33	1
Manganese	**88.7**		6.00	3.34	ug/Sample		11/20/20 16:00	11/21/20 01:33	1

Client Sample ID: PE-TSP110620-12ADOWNWIND
Date Collected: 11/06/20 07:30
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Lab Sample ID: 570-43456-31
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.99**	**J**	18.0	6.22	ug/Sample		11/20/20 16:00	11/21/20 01:35	1
Lead	**10.9**	**J**	12.0	3.16	ug/Sample		11/20/20 16:00	11/21/20 01:35	1
Manganese	**66.8**		6.00	3.34	ug/Sample		11/20/20 16:00	11/21/20 01:35	1

Client Sample ID: PE-TSP110720-B606UPWIND
Date Collected: 11/07/20 07:15
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Lab Sample ID: 570-43456-34
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/20/20 16:00	11/21/20 01:37	1
Lead	**3.78**	**J**	12.0	3.16	ug/Sample		11/20/20 16:00	11/21/20 01:37	1
Manganese	**35.7**		6.00	3.34	ug/Sample		11/20/20 16:00	11/21/20 01:37	1

Client Sample ID: PE-TSP110720-12ADOWNWIND
Date Collected: 11/07/20 07:25
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Lab Sample ID: 570-43456-35
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/20/20 16:00	11/21/20 01:39	1
Lead	**16.5**		12.0	3.16	ug/Sample		11/20/20 16:00	11/21/20 01:39	1
Manganese	**99.8**		6.00	3.34	ug/Sample		11/20/20 16:00	11/21/20 01:39	1

General Chemistry

Client Sample ID: PE-TSP110220-B606UPWIND — **Lab Sample ID: 570-43456-14**
Date Collected: 11/02/20 07:03 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	129		2.86	2.86	ug/m3			11/16/20 15:21	1

Client Sample ID: PE-TSP110220-12ADOWNWIND — **Lab Sample ID: 570-43456-15**
Date Collected: 11/02/20 07:14 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	69.3		2.86	2.86	ug/m3			11/16/20 15:21	1

Client Sample ID: PE_PM10110220-B606UPWIND — **Lab Sample ID: 570-43456-16**
Date Collected: 11/02/20 07:03 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	67.2		2.86	2.86	ug/m3			11/16/20 14:59	1

Client Sample ID: PE_PM10110220-12ADOWNWIND — **Lab Sample ID: 570-43456-17**
Date Collected: 11/02/20 07:14 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	32.4		2.86	2.86	ug/m3			11/16/20 14:59	1

Client Sample ID: PE-TSP110320-B606UPWIND — **Lab Sample ID: 570-43456-18**
Date Collected: 11/03/20 07:09 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	25.3		2.54	2.54	ug/m3			11/16/20 15:21	1

Client Sample ID: PE-TSP110320-12ADOWNWIND — **Lab Sample ID: 570-43456-19**
Date Collected: 11/03/20 07:17 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	33.4		2.54	2.54	ug/m3			11/16/20 15:21	1

Client Sample ID: PE_PM10110320-B606UPWIND — **Lab Sample ID: 570-43456-20**
Date Collected: 11/03/20 07:09 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	13.1		2.54	2.54	ug/m3			11/16/20 14:59	1

Client Sample ID: PE_PM10110320-12ADOWNWIND — **Lab Sample ID: 570-43456-21**
Date Collected: 11/03/20 07:17 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	5.67		2.54	2.54	ug/m3			11/16/20 14:59	1

General Chemistry

Client Sample ID: PE-TSP110420-B606UPWIND — **Lab Sample ID: 570-43456-22**
Date Collected: 11/04/20 07:12 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	48.8		2.41	2.41	ug/m3			11/16/20 15:21	1

Client Sample ID: PE-TSP110420-12ADOWNWIND — **Lab Sample ID: 570-43456-23**
Date Collected: 11/04/20 07:25 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	18.9		2.42	2.42	ug/m3			11/16/20 15:21	1

Client Sample ID: PE_PM10110420-B606UPWIND — **Lab Sample ID: 570-43456-24**
Date Collected: 11/04/20 07:12 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	21.8		2.41	2.41	ug/m3			11/16/20 14:59	1

Client Sample ID: PE_PM10110420-12ADOWNWIND — **Lab Sample ID: 570-43456-25**
Date Collected: 11/04/20 07:25 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	11.3		2.42	2.42	ug/m3			11/16/20 14:59	1

Client Sample ID: PE-TSP110520-B606UPWIND — **Lab Sample ID: 570-43456-26**
Date Collected: 11/05/20 07:13 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	39.1		2.29	2.29	ug/m3			11/16/20 15:21	1

Client Sample ID: PE-TSP110520-12ADOWNWIND — **Lab Sample ID: 570-43456-27**
Date Collected: 11/05/20 07:24 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	47.0		2.29	2.29	ug/m3			11/16/20 15:21	1

Client Sample ID: PE_PM10110520-B606UPWIND — **Lab Sample ID: 570-43456-28**
Date Collected: 11/05/20 07:13 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	22.1		2.35	2.35	ug/m3			11/16/20 14:59	1

Client Sample ID: PE_PM10110520-12ADOWNWIND — **Lab Sample ID: 570-43456-29**
Date Collected: 11/05/20 07:24 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	21.6		2.29	2.29	ug/m3			11/16/20 14:59	1

General Chemistry

Client Sample ID: PE-TSP110620-B606UPWIND — **Lab Sample ID: 570-43456-30**
Date Collected: 11/06/20 07:15 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	75.5		2.56	2.56	ug/m3			11/16/20 15:21	1

Client Sample ID: PE-TSP110620-12ADOWNWIND — **Lab Sample ID: 570-43456-31**
Date Collected: 11/06/20 07:30 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	59.2		2.19	2.19	ug/m3			11/16/20 15:21	1

Client Sample ID: PE_PM10110620-B606UPWIND — **Lab Sample ID: 570-43456-32**
Date Collected: 11/06/20 07:15 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	33.1		2.62	2.62	ug/m3			11/16/20 14:59	1

Client Sample ID: PE_PM10110620-12ADOWNWIND — **Lab Sample ID: 570-43456-33**
Date Collected: 11/06/20 07:30 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	21.0		2.19	2.19	ug/m3			11/16/20 14:59	1

Client Sample ID: PE-TSP110720-B606UPWIND — **Lab Sample ID: 570-43456-34**
Date Collected: 11/07/20 07:15 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	32.7		2.08	2.08	ug/m3			11/16/20 15:21	1

Client Sample ID: PE-TSP110720-12ADOWNWIND — **Lab Sample ID: 570-43456-35**
Date Collected: 11/07/20 07:25 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	60.3		2.08	2.08	ug/m3			11/16/20 15:21	1

Client Sample ID: PE_PM10110720-B606UPWIND — **Lab Sample ID: 570-43456-36**
Date Collected: 11/07/20 07:15 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	20.4		2.08	2.08	ug/m3			11/16/20 14:59	1

Client Sample ID: PE_PM10110720-12ADOWNWIND — **Lab Sample ID: 570-43456-37**
Date Collected: 11/07/20 07:25 — **Matrix: Air**
Date Received: 11/11/20 10:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	25.9		2.08	2.08	ug/m3			11/16/20 14:59	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-111331/1-A
Matrix: Air
Analysis Batch: 111456

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111331

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/20/20 16:00	11/21/20 00:55	1
Lead	ND		12.0	3.16	ug/Sample		11/20/20 16:00	11/21/20 00:55	1
Manganese	ND		6.00	3.34	ug/Sample		11/20/20 16:00	11/21/20 00:55	1

Lab Sample ID: LCS 570-111331/2-A
Matrix: Air
Analysis Batch: 111456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111331

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	600	530.0		ug/Sample		88	80 - 120
Lead	600	578.1		ug/Sample		96	80 - 120
Manganese	600	562.9		ug/Sample		94	80 - 120

Lab Sample ID: LCSD 570-111331/3-A
Matrix: Air
Analysis Batch: 111456

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111331

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	600	547.5		ug/Sample		91	80 - 120	3	20
Lead	600	578.9		ug/Sample		96	80 - 120	0	20
Manganese	600	559.7		ug/Sample		93	80 - 120	1	20

Lab Sample ID: 570-43456-14 MS
Matrix: Air
Analysis Batch: 111456

Client Sample ID: PE-TSP110220-B606UPWIND
Prep Type: Total/NA
Prep Batch: 111331

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	7.85	J	600	501.8		ug/Sample		82	75 - 125
Lead	20.9		600	561.8		ug/Sample		90	75 - 125
Manganese	134		600	625.4		ug/Sample		82	75 - 125

Lab Sample ID: 570-43456-14 MSD
Matrix: Air
Analysis Batch: 111456

Client Sample ID: PE-TSP110220-B606UPWIND
Prep Type: Total/NA
Prep Batch: 111331

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	7.85	J	600	550.7		ug/Sample		90	75 - 125	9	20
Lead	20.9		600	607.0		ug/Sample		98	75 - 125	8	20
Manganese	134		600	648.4		ug/Sample		86	75 - 125	4	20

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

Lab Sample ID: MB 570-110004/1-A
Matrix: Air
Analysis Batch: 110070

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			11/16/20 15:21	1

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

Lab Sample ID: 570-43456-14 DU
Matrix: Air
Analysis Batch: 110070

Client Sample ID: PE-TSP110220-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	129			128.8		ug/m3				0	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-109997/1
Matrix: Air
Analysis Batch: 109997

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			11/16/20 14:59	1

Lab Sample ID: 570-43456-16 DU
Matrix: Air
Analysis Batch: 109997

Client Sample ID: PE_PM10110220-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	67.2			67.23		ug/m3				0	25

BALANCE CALIBRATION CHECK LOG

Eurofins Calscience

Date performed: 11/16/20 Initials: RVCP

ID	Class 2 Weight (g)	Reading (g)	Acceptance Range	Pass? (circle one)	Comment (If not passed, note removal or corrective action)
83	1	0.99	0.98 - 1.02	(Y) N	IO Lab
	100	~~1999~~ 99.99 RVCP	98.00 - 102.00	Y N	
62	0.002	0.0016	0.0015 - 0.0025	(Y) N	IO Lab
	1	0.9992	0.9990 - 1.0010	(Y) N	
	100	100.0029	99.9000 - 100.1000	(Y) N	
11	1	1.00	0.98 - 1.02	(Y) N	IO Lab
	100	99.97	98.00 - 102.00	(Y) N	
55	1	1.00	0.98 - 1.02	(Y) N	IO Lab
	100	99.96	98.00 - 102.00	(Y) N	
	500	~~499.95~~ RVCP 499.85	490.00 - 510.00	(Y) N	
86	1	1.00	0.98 - 1.02	(Y) N	IO Lab
	100	100.00	98.00 - 102.00	(Y) N	
	500	499.99	490.00 - 510.00	(Y) N	
71	0.002	0.0017	0.0015 - 0.0025	(Y) N	BOD Room
	1	0.9992	0.9990 - 1.0010	(Y) N	
	100	99.9908	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	1.00	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	0.9990	0.9990 - 1.0010	(Y) N	
	100	99.9904	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	**COMMENT:**
WT SET ID USED: 10 mg - 100 g	
WT SET ID USED: 500 g	

Metals

Prep Batch: 111331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-43456-14	PE-TSP110220-B606UPWIND	Total/NA	Air	3050B	
570-43456-15	PE-TSP110220-12ADOWNWIND	Total/NA	Air	3050B	
570-43456-18	PE-TSP110320-B606UPWIND	Total/NA	Air	3050B	
570-43456-19	PE-TSP110320-12ADOWNWIND	Total/NA	Air	3050B	
570-43456-22	PE-TSP110420-B606UPWIND	Total/NA	Air	3050B	
570-43456-23	PE-TSP110420-12ADOWNWIND	Total/NA	Air	3050B	
570-43456-26	PE-TSP110520-B606UPWIND	Total/NA	Air	3050B	
570-43456-27	PE-TSP110520-12ADOWNWIND	Total/NA	Air	3050B	
570-43456-30	PE-TSP110620-B606UPWIND	Total/NA	Air	3050B	
570-43456-31	PE-TSP110620-12ADOWNWIND	Total/NA	Air	3050B	
570-43456-34	PE-TSP110720-B606UPWIND	Total/NA	Air	3050B	
570-43456-35	PE-TSP110720-12ADOWNWIND	Total/NA	Air	3050B	
MB 570-111331/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-111331/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-111331/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-43456-14 MS	PE-TSP110220-B606UPWIND	Total/NA	Air	3050B	
570-43456-14 MSD	PE-TSP110220-B606UPWIND	Total/NA	Air	3050B	

Analysis Batch: 111456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-43456-14	PE-TSP110220-B606UPWIND	Total/NA	Air	6010B	111331
570-43456-15	PE-TSP110220-12ADOWNWIND	Total/NA	Air	6010B	111331
570-43456-18	PE-TSP110320-B606UPWIND	Total/NA	Air	6010B	111331
570-43456-19	PE-TSP110320-12ADOWNWIND	Total/NA	Air	6010B	111331
570-43456-22	PE-TSP110420-B606UPWIND	Total/NA	Air	6010B	111331
570-43456-23	PE-TSP110420-12ADOWNWIND	Total/NA	Air	6010B	111331
570-43456-26	PE-TSP110520-B606UPWIND	Total/NA	Air	6010B	111331
570-43456-27	PE-TSP110520-12ADOWNWIND	Total/NA	Air	6010B	111331
570-43456-30	PE-TSP110620-B606UPWIND	Total/NA	Air	6010B	111331
570-43456-31	PE-TSP110620-12ADOWNWIND	Total/NA	Air	6010B	111331
570-43456-34	PE-TSP110720-B606UPWIND	Total/NA	Air	6010B	111331
570-43456-35	PE-TSP110720-12ADOWNWIND	Total/NA	Air	6010B	111331
MB 570-111331/1-A	Method Blank	Total/NA	Air	6010B	111331
LCS 570-111331/2-A	Lab Control Sample	Total/NA	Air	6010B	111331
LCSD 570-111331/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	111331
570-43456-14 MS	PE-TSP110220-B606UPWIND	Total/NA	Air	6010B	111331
570-43456-14 MSD	PE-TSP110220-B606UPWIND	Total/NA	Air	6010B	111331

General Chemistry

Analysis Batch: 109997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-43456-16	PE_PM10110220-B606UPWIND	Total/NA	Air	PM10	
570-43456-17	PE_PM10110220-12ADOWNWIND	Total/NA	Air	PM10	
570-43456-20	PE_PM10110320-B606UPWIND	Total/NA	Air	PM10	
570-43456-21	PE_PM10110320-12ADOWNWIND	Total/NA	Air	PM10	
570-43456-24	PE_PM10110420-B606UPWIND	Total/NA	Air	PM10	
570-43456-25	PE_PM10110420-12ADOWNWIND	Total/NA	Air	PM10	
570-43456-28	PE_PM10110520-B606UPWIND	Total/NA	Air	PM10	
570-43456-29	PE_PM10110520-12ADOWNWIND	Total/NA	Air	PM10	
570-43456-32	PE_PM10110620-B606UPWIND	Total/NA	Air	PM10	

General Chemistry (Continued)

Analysis Batch: 109997 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-43456-33	PE_PM10110620-12ADOWNWIND	Total/NA	Air	PM10	
570-43456-36	PE_PM10110720-B606UPWIND	Total/NA	Air	PM10	
570-43456-37	PE_PM10110720-12ADOWNWIND	Total/NA	Air	PM10	
MB 570-109997/1	Method Blank	Total/NA	Air	PM10	
570-43456-16 DU	PE_PM10110220-B606UPWIND	Total/NA	Air	PM10	

Pre Prep Batch: 110004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-43456-14	PE-TSP110220-B606UPWIND	Total/NA	Air	Filter to Air	
570-43456-15	PE-TSP110220-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-43456-18	PE-TSP110320-B606UPWIND	Total/NA	Air	Filter to Air	
570-43456-19	PE-TSP110320-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-43456-22	PE-TSP110420-B606UPWIND	Total/NA	Air	Filter to Air	
570-43456-23	PE-TSP110420-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-43456-26	PE-TSP110520-B606UPWIND	Total/NA	Air	Filter to Air	
570-43456-27	PE-TSP110520-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-43456-30	PE-TSP110620-B606UPWIND	Total/NA	Air	Filter to Air	
570-43456-31	PE-TSP110620-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-43456-34	PE-TSP110720-B606UPWIND	Total/NA	Air	Filter to Air	
570-43456-35	PE-TSP110720-12ADOWNWIND	Total/NA	Air	Filter to Air	
MB 570-110004/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-43456-14 DU	PE-TSP110220-B606UPWIND	Total/NA	Air	Filter to Air	

Analysis Batch: 110070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-43456-14	PE-TSP110220-B606UPWIND	Total/NA	Air	40CFR50 App B	110004
570-43456-15	PE-TSP110220-12ADOWNWIND	Total/NA	Air	40CFR50 App B	110004
570-43456-18	PE-TSP110320-B606UPWIND	Total/NA	Air	40CFR50 App B	110004
570-43456-19	PE-TSP110320-12ADOWNWIND	Total/NA	Air	40CFR50 App B	110004
570-43456-22	PE-TSP110420-B606UPWIND	Total/NA	Air	40CFR50 App B	110004
570-43456-23	PE-TSP110420-12ADOWNWIND	Total/NA	Air	40CFR50 App B	110004
570-43456-26	PE-TSP110520-B606UPWIND	Total/NA	Air	40CFR50 App B	110004
570-43456-27	PE-TSP110520-12ADOWNWIND	Total/NA	Air	40CFR50 App B	110004
570-43456-30	PE-TSP110620-B606UPWIND	Total/NA	Air	40CFR50 App B	110004
570-43456-31	PE-TSP110620-12ADOWNWIND	Total/NA	Air	40CFR50 App B	110004
570-43456-34	PE-TSP110720-B606UPWIND	Total/NA	Air	40CFR50 App B	110004
570-43456-35	PE-TSP110720-12ADOWNWIND	Total/NA	Air	40CFR50 App B	110004
MB 570-110004/1-A	Method Blank	Total/NA	Air	40CFR50 App B	110004
570-43456-14 DU	PE-TSP110220-B606UPWIND	Total/NA	Air	40CFR50 App B	110004

Client Sample ID: PE-TSP110220-B606UPWIND

Lab Sample ID: 570-43456-14
Date Collected: 11/02/20 07:03
Matrix: Air
Date Received: 11/11/20 10:00

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	111331	11/20/20 16:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			111456	11/21/20 01:03	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					110004	11/16/20 15:21	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			110070	11/16/20 15:21	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP110220-12ADOWNWIND

Lab Sample ID: 570-43456-15
Date Collected: 11/02/20 07:14
Matrix: Air
Date Received: 11/11/20 10:00

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	111331	11/20/20 16:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			111456	11/21/20 01:08	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					110004	11/16/20 15:21	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			110070	11/16/20 15:21	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10110220-B606UPWIND

Lab Sample ID: 570-43456-16
Date Collected: 11/02/20 07:03
Matrix: Air
Date Received: 11/11/20 10:00

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	4.2984 g	4.3690 g	109997	11/16/20 14:59	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10110220-12ADOWNWIND

Lab Sample ID: 570-43456-17
Date Collected: 11/02/20 07:14
Matrix: Air
Date Received: 11/11/20 10:00

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	4.3113 g	4.3453 g	109997	11/16/20 14:59	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP110320-B606UPWIND

Lab Sample ID: 570-43456-18
Date Collected: 11/03/20 07:09
Matrix: Air
Date Received: 11/11/20 10:00

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	111331	11/20/20 16:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			111456	11/21/20 01:10	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					110004	11/16/20 15:21	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			110070	11/16/20 15:21	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP110320-12ADOWNWIND
Lab Sample ID: 570-43456-19
Date Collected: 11/03/20 07:17
Matrix: Air
Date Received: 11/11/20 10:00

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	111331	11/20/20 16:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			111456	11/21/20 01:12	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					110004	11/16/20 15:21	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			110070	11/16/20 15:21	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10110320-B606UPWIND
Lab Sample ID: 570-43456-20
Date Collected: 11/03/20 07:09
Matrix: Air
Date Received: 11/11/20 10:00

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	4.3543 g	4.3697 g	109997	11/16/20 14:59	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10110320-12ADOWNWIND
Lab Sample ID: 570-43456-21
Date Collected: 11/03/20 07:17
Matrix: Air
Date Received: 11/11/20 10:00

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	4.3627 g	4.3694 g	109997	11/16/20 14:59	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP110420-B606UPWIND
Lab Sample ID: 570-43456-22
Date Collected: 11/04/20 07:12
Matrix: Air
Date Received: 11/11/20 10:00

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	111331	11/20/20 16:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			111456	11/21/20 01:26	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					110004	11/16/20 15:21	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			110070	11/16/20 15:21	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP110420-12ADOWNWIND
Lab Sample ID: 570-43456-23
Date Collected: 11/04/20 07:25
Matrix: Air
Date Received: 11/11/20 10:00

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	111331	11/20/20 16:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			111456	11/21/20 01:27	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					110004	11/16/20 15:21	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			110070	11/16/20 15:21	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-43456-1

Client Sample ID: PE_PM10110420-B606UPWIND
Lab Sample ID: 570-43456-24
Date Collected: 11/04/20 07:12
Matrix: Air
Date Received: 11/11/20 10:00

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	4.4522 g	4.4793 g	109997	11/16/20 14:59	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10110420-12ADOWNWIND
Lab Sample ID: 570-43456-25
Date Collected: 11/04/20 07:25
Matrix: Air
Date Received: 11/11/20 10:00

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	4.4199 g	4.4339 g	109997	11/16/20 14:59	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP110520-B606UPWIND
Lab Sample ID: 570-43456-26
Date Collected: 11/05/20 07:13
Matrix: Air
Date Received: 11/11/20 10:00

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	111331	11/20/20 16:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			111456	11/21/20 01:30	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					110004	11/16/20 15:21	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			110070	11/16/20 15:21	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP110520-12ADOWNWIND
Lab Sample ID: 570-43456-27
Date Collected: 11/05/20 07:24
Matrix: Air
Date Received: 11/11/20 10:00

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	111331	11/20/20 16:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			111456	11/21/20 01:31	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					110004	11/16/20 15:21	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			110070	11/16/20 15:21	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10110520-B606UPWIND
Lab Sample ID: 570-43456-28
Date Collected: 11/05/20 07:13
Matrix: Air
Date Received: 11/11/20 10:00

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	4.4474 g	4.4756 g	109997	11/16/20 14:59	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-43456-1

Client Sample ID: PE_PM10110520-12ADOWNWIND
Lab Sample ID: 570-43456-29
Date Collected: 11/05/20 07:24
Matrix: Air
Date Received: 11/11/20 10:00

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	4.4285 g	4.4568 g	109997	11/16/20 14:59	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP110620-B606UPWIND
Lab Sample ID: 570-43456-30
Date Collected: 11/06/20 07:15
Matrix: Air
Date Received: 11/11/20 10:00

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	111331	11/20/20 16:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			111456	11/21/20 01:33	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					110004	11/16/20 15:21	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			110070	11/16/20 15:21	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP110620-12ADOWNWIND
Lab Sample ID: 570-43456-31
Date Collected: 11/06/20 07:30
Matrix: Air
Date Received: 11/11/20 10:00

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	111331	11/20/20 16:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			111456	11/21/20 01:35	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					110004	11/16/20 15:21	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			110070	11/16/20 15:21	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10110620-B606UPWIND
Lab Sample ID: 570-43456-32
Date Collected: 11/06/20 07:15
Matrix: Air
Date Received: 11/11/20 10:00

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	4.2753 g	4.3131 g	109997	11/16/20 14:59	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10110620-12ADOWNWIND
Lab Sample ID: 570-43456-33
Date Collected: 11/06/20 07:30
Matrix: Air
Date Received: 11/11/20 10:00

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	4.4346 g	4.4634 g	109997	11/16/20 14:59	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-43456-1

Client Sample ID: PE-TSP110720-B606UPWIND

Lab Sample ID: 570-43456-34
Date Collected: 11/07/20 07:15
Matrix: Air
Date Received: 11/11/20 10:00

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	111331	11/20/20 16:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			111456	11/21/20 01:37	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					110004	11/16/20 15:21	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			110070	11/16/20 15:21	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP110720-12ADOWNWIND

Lab Sample ID: 570-43456-35
Date Collected: 11/07/20 07:25
Matrix: Air
Date Received: 11/11/20 10:00

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	111331	11/20/20 16:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			111456	11/21/20 01:39	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					110004	11/16/20 15:21	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			110070	11/16/20 15:21	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10110720-B606UPWIND

Lab Sample ID: 570-43456-36
Date Collected: 11/07/20 07:15
Matrix: Air
Date Received: 11/11/20 10:00

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	4.4435 g	4.4729 g	109997	11/16/20 14:59	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10110720-12ADOWNWIND

Lab Sample ID: 570-43456-37
Date Collected: 11/07/20 07:25
Matrix: Air
Date Received: 11/11/20 10:00

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	4.4204 g	4.4578 g	109997	11/16/20 14:59	UWCT	ECL 1
	Instrument ID: NOEQUIP									

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: 570-43456-1

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	11-30-20
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

Method Summary

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

Job ID: 570-43456-1

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: 570-43456-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-43456-1	PE-ASB110220-B606UPWIND	Air	11/02/20 07:03	11/11/20 10:00	
570-43456-2	PE-ASB110220-12ADOWNWIND	Air	11/02/20 07:14	11/11/20 10:00	
570-43456-3	PE-ASB110320-B606UPWIND	Air	11/03/20 07:09	11/11/20 10:00	
570-43456-4	PE-ASB110320-12ADOWNWIND	Air	11/03/20 07:17	11/11/20 10:00	
570-43456-5	PE-ASB110420-B606UPWIND	Air	11/04/20 07:12	11/11/20 10:00	
570-43456-6	PE-ASB110420-12ADOWNWIND	Air	11/04/20 07:25	11/11/20 10:00	
570-43456-7	PE-ASB110520-B606UPWIND	Air	11/05/20 07:13	11/11/20 10:00	
570-43456-8	PE-ASB110520-12ADOWNWIND	Air	11/05/20 07:24	11/11/20 10:00	
570-43456-9	PE-ASB110620-B606UPWIND	Air	11/06/20 07:15	11/11/20 10:00	
570-43456-10	PE-ASB110620-12ADOWNWIND	Air	11/06/20 07:29	11/11/20 10:00	
570-43456-11	PE-ASB110720-B606UPWIND	Air	11/07/20 07:15	11/11/20 10:00	
570-43456-12	PE-ASB110720-12ADOWNWIND	Air	11/07/20 07:25	11/11/20 10:00	
570-43456-13	PE-ASB110720-BLANK	Air	11/07/20 07:15	11/11/20 10:00	
570-43456-14	PE-TSP110220-B606UPWIND	Air	11/02/20 07:03	11/11/20 10:00	
570-43456-15	PE-TSP110220-12ADOWNWIND	Air	11/02/20 07:14	11/11/20 10:00	
570-43456-16	PE_PM10110220-B606UPWIND	Air	11/02/20 07:03	11/11/20 10:00	
570-43456-17	PE_PM10110220-12ADOWNWIND	Air	11/02/20 07:14	11/11/20 10:00	
570-43456-18	PE-TSP110320-B606UPWIND	Air	11/03/20 07:09	11/11/20 10:00	
570-43456-19	PE-TSP110320-12ADOWNWIND	Air	11/03/20 07:17	11/11/20 10:00	
570-43456-20	PE_PM10110320-B606UPWIND	Air	11/03/20 07:09	11/11/20 10:00	
570-43456-21	PE_PM10110320-12ADOWNWIND	Air	11/03/20 07:17	11/11/20 10:00	
570-43456-22	PE-TSP110420-B606UPWIND	Air	11/04/20 07:12	11/11/20 10:00	
570-43456-23	PE-TSP110420-12ADOWNWIND	Air	11/04/20 07:25	11/11/20 10:00	
570-43456-24	PE_PM10110420-B606UPWIND	Air	11/04/20 07:12	11/11/20 10:00	
570-43456-25	PE_PM10110420-12ADOWNWIND	Air	11/04/20 07:25	11/11/20 10:00	
570-43456-26	PE-TSP110520-B606UPWIND	Air	11/05/20 07:13	11/11/20 10:00	
570-43456-27	PE-TSP110520-12ADOWNWIND	Air	11/05/20 07:24	11/11/20 10:00	
570-43456-28	PE_PM10110520-B606UPWIND	Air	11/05/20 07:13	11/11/20 10:00	
570-43456-29	PE_PM10110520-12ADOWNWIND	Air	11/05/20 07:24	11/11/20 10:00	
570-43456-30	PE-TSP110620-B606UPWIND	Air	11/06/20 07:15	11/11/20 10:00	
570-43456-31	PE-TSP110620-12ADOWNWIND	Air	11/06/20 07:30	11/11/20 10:00	
570-43456-32	PE_PM10110620-B606UPWIND	Air	11/06/20 07:15	11/11/20 10:00	
570-43456-33	PE_PM10110620-12ADOWNWIND	Air	11/06/20 07:30	11/11/20 10:00	
570-43456-34	PE-TSP110720-B606UPWIND	Air	11/07/20 07:15	11/11/20 10:00	
570-43456-35	PE-TSP110720-12ADOWNWIND	Air	11/07/20 07:25	11/11/20 10:00	
570-43456-36	PE_PM10110720-B606UPWIND	Air	11/07/20 07:15	11/11/20 10:00	
570-43456-37	PE_PM10110720-12ADOWNWIND	Air	11/07/20 07:25	11/11/20 10:00	

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: 332020367
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: 11/12/2020 10:55 AM
Analysis Date: 11/27/2020
Collected Date: 11/02/2020 - 11/07/2020

Project: HPNS - Parcel E / 500712 / 570-43456

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-ASB110220-B606UPWIND (570-43456-1) *332020367-0001*		11/02/2020	1854	8	100	0.0015	10.2	0.0021	
PE-ASB110220-12ADOWNWIND (570-43456-2) *332020367-0002*		11/02/2020	1832	7.5	100	0.0015	9.55	0.0020	
PE-ASB110320-B606UPWIND (570-43456-3) *332020367-0003*		11/03/2020	2582	<5.5	100	0.0010	<7.01	<0.0010	
PE-ASB110320-12ADOWNWIND (570-43456-4) *332020367-0004*		11/03/2020	2086	<5.5	100	0.0013	<7.01	<0.0013	
PE-ASB110420-B606UPWIND (570-43456-5) *332020367-0005*		11/04/2020	2556	10.5	100	0.0011	13.4	0.0020	
PE-ASB110420-12ADOWNWIND (570-43456-6) *332020367-0006*		11/04/2020	1670	5.5	100	0.0016	7.01	0.0016	Sample pulled for 10% Recount.
PE-ASB110520-B606UPWIND (570-43456-7) *332020367-0007*		11/05/2020	2734	<5.5	100	0.0010	<7.01	<0.0010	
PE-ASB110520-12ADOWNWIND (570-43456-8) *332020367-0008*		11/05/2020	2772	<5.5	100	0.0010	<7.01	<0.0010	
PE-ASB110620-B606UPWIND (570-43456-9) *332020367-0009*		11/06/2020	2880	<5.5	100	0.0009	<7.01	<0.0009	
PE-ASB110620-12ADOWNWIND (570-43456-10) *332020367-0010*		11/06/2020	2822	<5.5	100	0.0010	<7.01	<0.0010	
PE-ASB110720-B606UPWIND (570-43456-11) *332020367-0011*		11/07/2020	2910	<5.5	100	0.0009	<7.01	<0.0009	
PE-ASB110720-12ADOWNWIND (570-43456-12) *332020367-0012*		11/07/2020	2770	<5.5	100	0.0010	<7.01	<0.0010	
PE-ASB110720-BLANK (570-43456-13)		11/07/2020		<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: 11/27/2020 09:14 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: 332020367
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: 11/12/2020 10:55 AM
Analysis Date: 11/27/2020
Collected Date: 11/02/2020 - 11/07/2020

Project: HPNS - Parcel E / 500712 / 570-43456

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*
332020367-0013									
PE-ASB110420-12ADOW NWIND (570-43456-6) DUP		11/04/2020	1670	<5.5	100	0.0016	<7.01	<0.0016	10% Recount; Individual-CV=0.22
332020367-0014									

The results reported have been blank corrected as applicable.

Analyst(s):
Alexis Rodriguez PCM 14

Michael Chapman, Laboratory Manager
or other Approved Signatory

Initial report from: 11/27/2020 09:14 AM

Loc: 570
43456

APTIM

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

570-43456 Chain of Custody

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 033
Page 1 of 2

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: *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 ER 11/12/20

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-ASB110220-B606UPWIND	1	CX13348969	11/02/20	7:03	G	A	1	PCM			X			2.00	1.85			
PE-ASB110220-12ADOWNWIND	2	CX133465	11/02/20	7:14	G	A	1	PCM			X			2.00	1.83			
PE-ASB110320-B606UPWIND	3	CX133462	11/03/20	7:09	G	A	1	PCM			X			2.00	2.58			
PE-ASB110320-12ADOWNWIND	4	CX133467	11/03/20	7:17	G	A	1	PCM			X			2.00	2.09			
PE-ASB110420-B606UPWIND	5	CX133473	11/04/20	7:12	G	A	1	PCM			X			2.00	2.56			
PE-ASB110420-12ADOWNWIND	6	CW133474	11/04/20	7:25	G	A	1	PCM			X			2.00	1.67			
PE-ASB110520-B606UPWIND	7	CX133475	11/05/20	7:13	G	A	1	PCM			X			2.00	2.73			
PE-ASB110520-12ADOWNWIND	8	CW133476	11/05/20	7:24	G	A	1	PCM			X			2.00	2.77			
PE-ASB110620-B606UPWIND	9	CX133472	11/06/20	7:15	G	A	1	PCM			X			2.00	2.88			
PE-ASB110620-12ADOWNWIND	10	CX133490	11/06/20	7:29	G	A	1	PCM			X			2.00	2.82			
PE-ASB110720-B606UPWIND	11	CX133487	11/07/20	7:15	G	A	1	PCM			X			2.00	2.91			
PE-ASB110720-12ADOWNWIND	12	CX133489	11/07/20	7:25	G	A	1	PCM			X			2.00	2.77			
PE-ASB110720-BLANK	13	CX133484	11/07/20	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: Edgar Ruiz	Date: 11/7/20 Time: 1500	Received By: Locks & storage	Date: 11/7/20 Time: 1500
Relinquished By: Locks & storage	Date: 11/10/20 Time: 0900	Received By: Edgar Ruiz	Date: 11/10/20 Time: 0900
Relinquished By: Edgar Ruiz	Date: 11/10/20 Time: 1100	Received By:	Date: 11/10/20 Time: 1100
Relinquished By: to 650 11/10/20 1630	Date: Time:	Received By:	Date: 11/11/2020 Time: 10:00

*C-S-

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

APTIM

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

570-43456 Chain of Custody

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 033
Page 1 of 2

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: *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

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-ASB110220-B606UPWIND	1	CX133489	11/02/20	7:03	G	A	1	PCM			X			2.00	1.85			
PE-ASB110220-12ADOWNWIND	2	CX133465	11/02/20	7:14	G	A	1	PCM			X			2.00	1.83			
PE-ASB110320-B606UPWIND	3	CX133462	11/03/20	7:09	G	A	1	PCM			X			2.00	2.58			
PE-ASB110320-12ADOWNWIND	4	CX133467	11/03/20	7:17	G	A	1	PCM			X			2.00	2.09			
PE-ASB110420-B606UPWIND	5	CX133473	11/04/20	7:12	G	A	1	PCM			X			2.00	2.56			
PE-ASB110420-12ADOWNWIND	6	CW133474	11/04/20	7:25	G	A	1	PCM			X			2.00	1.67			
PE-ASB110520-B606UPWIND	7	CX133475	11/05/20	7:13	G	A	1	PCM			X			2.00	2.73			
PE-ASB110520-12ADOWNWIND	8	CW133476	11/05/20	7:24	G	A	1	PCM			X			2.00	2.77			
PE-ASB110620-B606UPWIND	9	CX133472	11/06/20	7:15	G	A	1	PCM			X			2.00	2.88			
PE-ASB110620-12ADOWNWIND	10	CX133490	11/06/20	7:29	G	A	1	PCM			X			2.00	2.82			
PE-ASB110720-B606UPWIND	11	CX133487	11/07/20	7:15	G	A	1	PCM			X			2.00	2.91			
PE-ASB110720-12ADOWNWIND	12	CX133489	11/07/20	7:25	G	A	1	PCM			X			2.00	2.77			
PE-ASB110720-BLANK	13	CX133484	11/07/20	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: Edgar Ruiz	Date: 11/7/20 Time: 1500	Received By: Lock & storage	Date: 11/7/20 Time: 1500
Relinquished By: Lock & storage	Date: 11/10/20 Time: 0900	Received By: Edgar Ruiz	Date: 11/10/20 Time: 0900
Relinquished By: Edgar Ruiz	Date: 11/10/20 Time: 1100	Received By: MARK Valentine	Date: 11/10/20 Time: 1100
Relinquished By: to 650 11/10/20 1630	Date: Time:	Received By:	Date: 11/11/2020 Time: 10:00

*C-5-

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

43456

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 033

Page 2 of 2

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

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *8056808279*
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
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: 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	Flow Rate (L/min.)	Sample Volume (m^3)			
PE-TSP110220-B606UPWIND 14	Q0408647	11/02/20	7:03	G	A	1	8X10 EPM Whatman					X	1132.8	1050.1			
PE-TSP110220-12ADOWNWIND 15	Q0408649	11/02/20	7:14	G	A	1	8X10 EPM Whatman					X	1132.8	1049.0			
PE_PM10110220-B606UPWIND 16	Q0408648	11/02/20	7:03	G	A	1	8X10 EPM Whatman				X		1132.8	1050.1			
PE_PM10110220-12ADOWNWIND 17	Q0408650	11/02/20	7:14	G	A	1	8X10 EPM Whatman				X		1132.8	1049.0			
PE-TSP110320-B606UPWIND 18	Q0408656	11/03/20	7:09	G	A	1	8X10 EPM Whatman					X	1132.8	1179.2			
PE-TSP110320-12ADOWNWIND 19	Q0408658	11/03/20	7:17	G	A	1	8X10 EPM Whatman					X	1132.8	1181.5			
PE_PM10110320-B606UPWIND 20	Q0408657	11/03/20	7:09	G	A	1	8X10 EPM Whatman				X		1132.8	1179.2			
PE_PM10110320-12ADOWNWIND 21	Q0408659	11/03/20	7:17	G	A	1	8X10 EPM Whatman				X		1132.8	1181.5			
PE-TSP110420-B606UPWIND 22	Q0408664	11/04/20	7:12	G	A	1	8X10 EPM Whatman					X	1132.8	1243.8			
PE-TSP110420-12ADOWNWIND 23	Q0408666	11/04/20	7:25	G	A	1	8X10 EPM Whatman					X	1132.8	1240.4			
PE_PM10110420-B606UPWIND 24	Q0408665	11/04/20	7:12	G	A	1	8X10 EPM Whatman				X		1132.8	1243.8			
PE_PM10110420-12ADOWNWIND 25	Q0408667	11/04/20	7:25	G	A	1	8X10 EPM Whatman				X		1132.8	1240.4			
PE-TSP110520-B606UPWIND 26	Q0408669	11/05/20	7:13	G	A	1	8X10 EPM Whatman					X	1132.8	1310.6			
PE-TSP110520-12ADOWNWIND 27	Q0408671	11/05/20	7:24	G	A	1	8X10 EPM Whatman					X	1132.8	1309.5			
PE_PM10110520-B606UPWIND 28	Q0408670	11/05/20	7:13	G	A	1	8X10 EPM Whatman				X		1104.5	1277.9			
PE_PM10110520-12ADOWNWIND 29	Q0408672	11/05/20	7:24	G	A	1	8X10 EPM Whatman				X		1132.8	1309.5			
PE-TSP110620-B606UPWIND 30	Q0411004	11/06/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.8	1172.4			
PE-TSP110620-12ADOWNWIND 31	Q0411006	11/06/20	7:30	G	A	1	8X10 EPM Whatman					X	1132.8	1370.7			
PE_PM10110620-B606UPWIND 32	Q0411005	11/06/20	7:15	G	A	1	8X10 EPM Whatman				X		1104.5	1143.1			
PE_PM10110620-12ADOWNWIND 33	Q0411007	11/06/20	7:30	G	A	1	8X10 EPM Whatman				X		1132.8	1370.7			
PE-TSP110720-B606UPWIND 34	Q0411012	11/07/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.8	1444.3			
PE-TSP110720-12ADOWNWIND 35	Q0411014	11/07/20	7:25	G	A	1	8X10 EPM Whatman					X	1132.8	1444.3			
PE_PM10110720-B606UPWIND 36	Q0411013	11/07/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.8	1444.3			
PE_PM10110720-12ADOWNWIND 37	Q0411015	11/07/20	7:25	G	A	1	8X10 EPM Whatman				X		1132.8	1444.3			

AIR MONITORING LOG

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

STATION **COC# 033**

SAMPLE NO. PE-ASB110220-B606UPWIND 11/2/2020 *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				
CX133489	2.000	2.000	2.000	11/02/20 07:03	11/02/20 22:30	927	1.85	Asbestos	2.00

SAMPLE NO. PE-ASB110220-12ADOWNWIND 11/2/2020 *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				
CX133465	2.000	2.000	2.000	11/02/20 07:14	11/02/20 22:30	916	1.83	Asbestos	2.00

SAMPLE NO. PE-ASB110320-B606UPWIND 11/3/2020 *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				
CX133462	2.000	2.000	2.000	11/03/20 07:09	11/04/20 04:40	1291	2.58	Asbestos	2.00

SAMPLE NO. PE-ASB110320-12ADOWNWIND 11/3/2020 *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				
CX133467	2.000	2.000	2.000	11/03/20 07:17	11/04/20 00:40	1043	2.09	Asbestos	2.00

SAMPLE NO. PE-ASB110420-B606UPWIND 11/4/2020 *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				
CX133473	2.000	2.000	2.000	11/04/20 07:12	11/05/20 04:30	1278	2.56	Asbestos	2.00

SAMPLE NO. PE-ASB110420-12ADOWNWIND 11/4/2020 *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				
CW133474	2.000	2.000	2.000	11/04/20 07:25	11/04/20 21:20	835	1.67	Asbestos	2.00

SAMPLE NO. PE-ASB110520-B606UPWIND 11/5/2020 *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				
CX133475	2.000	2.000	2.000	11/05/20 07:13	11/06/20 06:00	1367	2.73	Asbestos	2.00

SAMPLE NO. PE-ASB110520-12ADOWNWIND 11/5/2020 *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				
CW133476	2.000	2.000	2.000	11/05/20 07:24	11/06/20 06:30	1386	2.77	Asbestos	2.00

SAMPLE NO.	PE-ASB110620-B606UPWIND			11/6/2020 *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				
CX133472	2.000	2.000	2.000	11/06/20 07:15	11/07/20 07:15	1440	2.88	Asbestos	2.00

SAMPLE NO.	PE-ASB110620-12ADOWNWIND			11/6/2020 *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				
CX133490	2.000	2.000	2.0	11/06/20 07:29	11/07/20 07:00	1411	2.82	Asbestos	2.00

SAMPLE NO.	PE-ASB110720-B606UPWIND			11/7/2020 *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				
CX133487	2.000	2.000	2.0	11/07/20 07:15	11/08/20 07:30	1455	2.9	Asbestos	2.00

SAMPLE NO.	PE-ASB110720-12ADOWNWIND			11/7/2020 *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				
CX133489	2.000	2.000	2.0	11/07/20 07:25	11/08/20 06:30	1385	2.8	Asbestos	2.00

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

STATION COC# 033

SAMPLE NO. PE-TSP110220-B606UPWIND 11/2/2020 *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				
Q0408647	40.0	40.0	40.0	11/02/20 07:03	11/02/20 22:30	927	1050.1	TSP	1132.80

SAMPLE NO. PE-TSP110220-12ADOWNWIND 11/2/2020 *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				
Q0408649	40.0	40.0	40.0	11/02/20 07:14	11/02/20 22:40	926	1049.0	TSP	1132.80

SAMPLE NO. PE_PM10110220-B606UPWIND 11/2/2020 *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				
Q0408648	40.0	40.0	40.0	11/02/20 07:03	11/02/20 22:30	927	1050.1	PM-10	1132.80

SAMPLE NO. PE_PM10110220-12ADOWNWIND 11/2/2020 *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				
Q0408650	40.0	40.0	40.0	11/02/20 07:14	11/02/20 22:40	926	1049.0	PM-10	1132.80

SAMPLE NO. PE-TSP110320-B606UPWIND 11/3/2020 *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				
Q0408656	40.0	40.0	40.0	11/03/20 07:09	11/04/20 00:30	1041	1179.2	TSP	1132.80

SAMPLE NO. PE-TSP110320-12ADOWNWIND 11/3/2020 *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				
Q0408658	40.0	40.0	40.0	11/03/20 07:17	11/04/20 00:40	1043	1181.5	TSP	1132.80

SAMPLE NO. PE_PM10110320-B606UPWIND 11/3/2020 *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				
Q0408657	40.0	40.0	40.0	11/03/20 07:09	11/04/20 00:30	1041	1179.2	PM-10	1132.80

SAMPLE NO. PE_PM10110320-12ADOWNWIND 11/3/2020 *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				

Q0408659	40.0	40.0	40.0	11/03/20 07:17	11/04/20 00:40	1043	1181.5	PM-10	1132.80

SAMPLE NO. PE-TSP110420-B606UPWIND 11/4/2020 *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				
Q0408664	40.0	40.0	40.0	11/04/20 07:12	11/05/20 01:30	1098	1243.8	TSP	1132.80

SAMPLE NO. PE-TSP110420-12ADOWNWIND 11/4/2020 *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				
Q0408666	40.0	40.0	40.0	11/04/20 07:25	11/05/20 01:40	1095	1240.4	TSP	1132.80

SAMPLE NO. PE_PM10110420-B606UPWIND 11/4/2020 *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				
Q0408665	40.0	40.0	40.0	11/04/20 07:12	11/05/20 01:30	1098	1243.8	PM-10	1132.80

SAMPLE NO. PE_PM10110420-12ADOWNWIND 11/4/2020 *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				
Q0408667	40.0	40.0	40.0	11/04/20 07:25	11/05/20 01:40	1095	1240.4	PM-10	1132.80

SAMPLE NO. PE-TSP110520-B606UPWIND 11/5/2020 *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				
Q0408669	40.0	40.0	40.0	11/05/20 07:13	11/06/20 02:30	1157	1310.6	TSP	1132.80

SAMPLE NO. PE-TSP110520-12ADOWNWIND 11/5/2020 *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				
Q0408671	40.0	40.0	40.0	11/05/20 07:24	11/06/20 02:40	1156	1309.5	TSP	1132.80

SAMPLE NO. PE_PM10110520-B606UPWIND 11/5/2020 *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				
Q0408670	40.0	38.0	39.0	11/05/20 07:13	11/06/20 02:30	1157	1277.9	PM-10	1104.48

SAMPLE NO. PE_PM10110520-12ADOWNWIND 11/5/2020 *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				
Q0408672	40.0	40.0	40.0	11/05/20 07:24	11/06/20 02:40	1156	1309.5	PM-10	1132.80

SAMPLE NO.	PE-TSP110620-B606UPWIND				11/6/2020 *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				
Q0411004	40.0	40.0	40.0	11/06/20 07:15	11/07/20 00:30	1035	1172.4	TSP	1132.80

SAMPLE NO.	PE-TSP110620-12ADOWNWIND				11/6/2020 *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				
Q0411006	40.0	40.0	40.0	11/06/20 07:30	11/07/20 03:40	1210	1370.7	TSP	1132.80

SAMPLE NO.	PE_PM10110620-B606UPWIND				11/6/2020 *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				
Q0411005	38.0	40.0	39.0	11/06/20 07:15	11/07/20 00:30	1035	1143.1	PM-10	1104.48

SAMPLE NO.	PE_PM10110620-12ADOWNWIND				11/6/2020 *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				
Q0411007	40.0	40.0	40.0	11/06/20 07:30	11/07/20 03:40	1210	1370.7	PM-10	1132.80

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-43456-1

Login Number: 43456
List Number: 1
Creator: Cruise, Noel

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

Laboratory Job ID: 570-44179-1
Client Project/Site: HPNS - Parcel E / 500712
Revision: 1

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

Attn: Rose Condit

Terri Chang

Authorized for release by:
12/29/2020 9:26:18 AM

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: 570-44179-1

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

Job ID: 570-44179-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-44179-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 12/3/2020. The report (revision 1) is being revised to correct sample volumes for samples PE-TSP111020-12ADOWNWIND and PE_PM10111020-12ADOWNWIND per client's request.

Receipt
The samples were received on 11/18/2020 11:30 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
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-TSP110920-B606UPWIND
Date Collected: 11/09/20 07:09
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-14
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/01/20 19:00	12/02/20 18:57	1
Lead	**6.61**	**J**	12.0	3.16	ug/Sample		12/01/20 19:00	12/02/20 18:57	1
Manganese	**21.8**		6.00	3.34	ug/Sample		12/01/20 19:00	12/02/20 18:57	1

Client Sample ID: PE-TSP110920-12ADOWNWIND
Date Collected: 11/09/20 07:20
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-15
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/01/20 19:00	12/02/20 19:03	1
Lead	ND		12.0	3.16	ug/Sample		12/01/20 19:00	12/02/20 19:03	1
Manganese	**16.8**		6.00	3.34	ug/Sample		12/01/20 19:00	12/02/20 19:03	1

Client Sample ID: PE-TSP111020-B606UPWIND
Date Collected: 11/10/20 07:15
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-18
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/01/20 19:00	12/02/20 19:06	1
Lead	ND		12.0	3.16	ug/Sample		12/01/20 19:00	12/02/20 19:06	1
Manganese	**15.7**		6.00	3.34	ug/Sample		12/01/20 19:00	12/02/20 19:06	1

Client Sample ID: PE-TSP111020-12ADOWNWIND
Date Collected: 11/10/20 07:23
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-19
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/01/20 19:00	12/02/20 19:08	1
Lead	ND		12.0	3.16	ug/Sample		12/01/20 19:00	12/02/20 19:08	1
Manganese	**8.23**		6.00	3.34	ug/Sample		12/01/20 19:00	12/02/20 19:08	1

Client Sample ID: PE-TSP111120-B606UPWIND
Date Collected: 11/11/20 07:05
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-22
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/01/20 19:00	12/02/20 19:10	1
Lead	ND		12.0	3.16	ug/Sample		12/01/20 19:00	12/02/20 19:10	1
Manganese	**37.5**		6.00	3.34	ug/Sample		12/01/20 19:00	12/02/20 19:10	1

Client Sample ID: PE-TSP111120-12ADOWNWIND
Date Collected: 11/11/20 07:18
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-23
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/01/20 19:00	12/02/20 19:21	1
Lead	ND		12.0	3.16	ug/Sample		12/01/20 19:00	12/02/20 19:21	1
Manganese	**12.5**		6.00	3.34	ug/Sample		12/01/20 19:00	12/02/20 19:21	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP111220-B606UPWIND
Date Collected: 11/12/20 07:08
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-26
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/01/20 19:00	12/02/20 19:24	1
Lead	ND		12.0	3.16	ug/Sample		12/01/20 19:00	12/02/20 19:24	1
Manganese	**19.4**		6.00	3.34	ug/Sample		12/01/20 19:00	12/02/20 19:24	1

Client Sample ID: PE-TSP111220-12ADOWNWIND
Date Collected: 11/12/20 07:20
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-27
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/01/20 19:00	12/02/20 19:26	1
Lead	ND		12.0	3.16	ug/Sample		12/01/20 19:00	12/02/20 19:26	1
Manganese	**17.1**		6.00	3.34	ug/Sample		12/01/20 19:00	12/02/20 19:26	1

Client Sample ID: PE-TSP111320-B606UPWIND
Date Collected: 11/13/20 07:10
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-30
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/01/20 19:00	12/02/20 19:28	1
Lead	ND		12.0	3.16	ug/Sample		12/01/20 19:00	12/02/20 19:28	1
Manganese	**12.0**		6.00	3.34	ug/Sample		12/01/20 19:00	12/02/20 19:28	1

Client Sample ID: PE-TSP111320-12ADOWNWIND
Date Collected: 11/13/20 07:24
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-31
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/01/20 19:00	12/02/20 19:30	1
Lead	ND		12.0	3.16	ug/Sample		12/01/20 19:00	12/02/20 19:30	1
Manganese	ND		6.00	3.34	ug/Sample		12/01/20 19:00	12/02/20 19:30	1

Client Sample ID: PE-TSP111420-B606UPWIND
Date Collected: 11/14/20 07:15
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-34
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/01/20 19:00	12/02/20 19:32	1
Lead	ND		12.0	3.16	ug/Sample		12/01/20 19:00	12/02/20 19:32	1
Manganese	ND		6.00	3.34	ug/Sample		12/01/20 19:00	12/02/20 19:32	1

Client Sample ID: PE-TSP111420-12ADOWNWIND
Date Collected: 11/14/20 07:25
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-35
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/01/20 19:00	12/02/20 19:35	1
Lead	ND		12.0	3.16	ug/Sample		12/01/20 19:00	12/02/20 19:35	1
Manganese	**5.21**	**J**	6.00	3.34	ug/Sample		12/01/20 19:00	12/02/20 19:35	1

General Chemistry

Client Sample ID: PE-TSP110920-B606UPWIND
Date Collected: 11/09/20 07:09
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-14
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	26.3		3.57	3.57	ug/m3			11/23/20 16:37	1

Client Sample ID: PE-TSP110920-12ADOWNWIND
Date Collected: 11/09/20 07:20
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-15
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	13.5		3.58	3.58	ug/m3			11/23/20 16:37	1

Client Sample ID: PE_PM10110920-B606UPWIND
Date Collected: 11/09/20 07:09
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-16
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	17.6		3.57	3.57	ug/m3			11/23/20 18:08	1

Client Sample ID: PE_PM10110920-12ADOWNWIND
Date Collected: 11/09/20 07:20
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-17
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	10.4		3.77	3.77	ug/m3			11/23/20 18:08	1

Client Sample ID: PE-TSP111020-B606UPWIND
Date Collected: 11/10/20 07:15
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-18
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	36.9		3.60	3.60	ug/m3			11/23/20 16:37	1

Client Sample ID: PE-TSP111020-12ADOWNWIND
Date Collected: 11/10/20 07:23
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-19
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	23.9		3.62	3.62	ug/m3			11/23/20 16:37	1

Client Sample ID: PE_PM10111020-B606UPWIND
Date Collected: 11/10/20 07:15
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-20
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	29.9		3.60	3.60	ug/m3			11/23/20 18:08	1

Client Sample ID: PE_PM10111020-12ADOWNWIND
Date Collected: 11/10/20 07:23
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-21
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	20.3		3.71	3.71	ug/m3			11/23/20 18:08	1

General Chemistry

Client Sample ID: PE-TSP111120-B606UPWIND
Date Collected: 11/11/20 07:05
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-22
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	47.2		3.59	3.59	ug/m3			11/23/20 16:37	1

Client Sample ID: PE-TSP111120-12ADOWNWIND
Date Collected: 11/11/20 07:18
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-23
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	28.4		3.57	3.57	ug/m3			11/23/20 16:37	1

Client Sample ID: PE_PM10111120-B606UPWIND
Date Collected: 11/11/20 07:05
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-24
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	26.0		3.55	3.55	ug/m3			11/23/20 18:08	1

Client Sample ID: PE_PM10111120-12ADOWNWIND
Date Collected: 11/11/20 07:18
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-25
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	20.7		3.66	3.66	ug/m3			11/23/20 18:08	1

Client Sample ID: PE-TSP111220-B606UPWIND
Date Collected: 11/12/20 07:08
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-26
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	36.5		3.57	3.57	ug/m3			11/23/20 16:37	1

Client Sample ID: PE-TSP111220-12ADOWNWIND
Date Collected: 11/12/20 07:20
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-27
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	35.9		3.58	3.58	ug/m3			11/23/20 16:37	1

Client Sample ID: PE_PM10111220-B606UPWIND
Date Collected: 11/12/20 07:08
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-28
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	31.5		3.57	3.57	ug/m3			11/23/20 18:08	1

Client Sample ID: PE_PM10111220-12ADOWNWIND
Date Collected: 11/12/20 07:20
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-29
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	29.5		3.58	3.58	ug/m3			11/23/20 18:08	1

General Chemistry

Client Sample ID: PE-TSP111320-B606UPWIND
Date Collected: 11/13/20 07:10
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-30
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	32.0		7.06	7.06	ug/m3			11/23/20 16:37	1

Client Sample ID: PE-TSP111320-12ADOWNWIND
Date Collected: 11/13/20 07:24
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-31
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	16.4		7.46	7.46	ug/m3			11/23/20 16:37	1

Client Sample ID: PE_PM10111320-B606UPWIND
Date Collected: 11/13/20 07:10
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-32
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	13.8		7.24	7.24	ug/m3			11/23/20 18:08	1

Client Sample ID: PE_PM10111320-12ADOWNWIND
Date Collected: 11/13/20 07:24
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-33
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	10.9		7.46	7.46	ug/m3			11/23/20 18:08	1

Client Sample ID: PE-TSP111420-B606UPWIND
Date Collected: 11/14/20 07:15
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-34
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	15.4		3.53	3.53	ug/m3			11/23/20 16:37	1

Client Sample ID: PE-TSP111420-12ADOWNWIND
Date Collected: 11/14/20 07:25
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-35
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	17.3		3.53	3.53	ug/m3			11/23/20 16:37	1

Client Sample ID: PE_PM10111420-B606UPWIND
Date Collected: 11/14/20 07:15
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-36
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	12.8		3.53	3.53	ug/m3			11/23/20 18:08	1

Client Sample ID: PE_PM10111420-12ADOWNWIND
Date Collected: 11/14/20 07:25
Date Received: 11/18/20 11:30
Sample Container: Folder/Filter

Lab Sample ID: 570-44179-37
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	14.2		3.53	3.53	ug/m3			11/23/20 18:08	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-113238/1-A
Matrix: Air
Analysis Batch: 113464

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 113238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/01/20 19:00	12/02/20 18:50	1
Lead	ND		12.0	3.16	ug/Sample		12/01/20 19:00	12/02/20 18:50	1
Manganese	ND		6.00	3.34	ug/Sample		12/01/20 19:00	12/02/20 18:50	1

Lab Sample ID: LCS 570-113238/2-A
Matrix: Air
Analysis Batch: 113464

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 113238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	600	549.9		ug/Sample		92	80 - 120
Lead	600	587.3		ug/Sample		98	80 - 120
Manganese	600	582.2		ug/Sample		97	80 - 120

Lab Sample ID: LCSD 570-113238/3-A
Matrix: Air
Analysis Batch: 113464

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 113238

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	600	524.9		ug/Sample		87	80 - 120	5	20
Lead	600	578.4		ug/Sample		96	80 - 120	2	20
Manganese	600	582.4		ug/Sample		97	80 - 120	0	20

Lab Sample ID: 570-44179-14 MS
Matrix: Air
Analysis Batch: 113464

Client Sample ID: PE-TSP110920-B606UPWIND
Prep Type: Total/NA
Prep Batch: 113238

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		600	553.7		ug/Sample		92	75 - 125
Lead	6.61	J	600	589.4		ug/Sample		97	75 - 125
Manganese	21.8		600	606.7		ug/Sample		97	75 - 125

Lab Sample ID: 570-44179-14 MSD
Matrix: Air
Analysis Batch: 113464

Client Sample ID: PE-TSP110920-B606UPWIND
Prep Type: Total/NA
Prep Batch: 113238

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		600	543.3		ug/Sample		91	75 - 125	2	20
Lead	6.61	J	600	590.3		ug/Sample		97	75 - 125	0	20
Manganese	21.8		600	607.0		ug/Sample		97	75 - 125	0	20

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

Lab Sample ID: MB 570-111850/1-A
Matrix: Air
Analysis Batch: 111869

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			11/23/20 16:37	1

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

Lab Sample ID: 570-44179-14 DU
Matrix: Air
Analysis Batch: 111869

Client Sample ID: PE-TSP110920-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	26.3			26.33		ug/m3				0	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-111896/1
Matrix: Air
Analysis Batch: 111896

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			11/23/20 18:08	1

Lab Sample ID: 570-44179-16 DU
Matrix: Air
Analysis Batch: 111896

Client Sample ID: PE_PM10110920-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	17.6			17.63		ug/m3				0	25

Metals

Prep Batch: 113238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-44179-14	PE-TSP110920-B606UPWIND	Total/NA	Air	3050B	
570-44179-15	PE-TSP110920-12ADOWNWIND	Total/NA	Air	3050B	
570-44179-18	PE-TSP111020-B606UPWIND	Total/NA	Air	3050B	
570-44179-19	PE-TSP111020-12ADOWNWIND	Total/NA	Air	3050B	
570-44179-22	PE-TSP111120-B606UPWIND	Total/NA	Air	3050B	
570-44179-23	PE-TSP111120-12ADOWNWIND	Total/NA	Air	3050B	
570-44179-26	PE-TSP111220-B606UPWIND	Total/NA	Air	3050B	
570-44179-27	PE-TSP111220-12ADOWNWIND	Total/NA	Air	3050B	
570-44179-30	PE-TSP111320-B606UPWIND	Total/NA	Air	3050B	
570-44179-31	PE-TSP111320-12ADOWNWIND	Total/NA	Air	3050B	
570-44179-34	PE-TSP111420-B606UPWIND	Total/NA	Air	3050B	
570-44179-35	PE-TSP111420-12ADOWNWIND	Total/NA	Air	3050B	
MB 570-113238/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-113238/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-113238/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-44179-14 MS	PE-TSP110920-B606UPWIND	Total/NA	Air	3050B	
570-44179-14 MSD	PE-TSP110920-B606UPWIND	Total/NA	Air	3050B	

Analysis Batch: 113464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-44179-14	PE-TSP110920-B606UPWIND	Total/NA	Air	6010B	113238
570-44179-15	PE-TSP110920-12ADOWNWIND	Total/NA	Air	6010B	113238
570-44179-18	PE-TSP111020-B606UPWIND	Total/NA	Air	6010B	113238
570-44179-19	PE-TSP111020-12ADOWNWIND	Total/NA	Air	6010B	113238
570-44179-22	PE-TSP111120-B606UPWIND	Total/NA	Air	6010B	113238
570-44179-23	PE-TSP111120-12ADOWNWIND	Total/NA	Air	6010B	113238
570-44179-26	PE-TSP111220-B606UPWIND	Total/NA	Air	6010B	113238
570-44179-27	PE-TSP111220-12ADOWNWIND	Total/NA	Air	6010B	113238
570-44179-30	PE-TSP111320-B606UPWIND	Total/NA	Air	6010B	113238
570-44179-31	PE-TSP111320-12ADOWNWIND	Total/NA	Air	6010B	113238
570-44179-34	PE-TSP111420-B606UPWIND	Total/NA	Air	6010B	113238
570-44179-35	PE-TSP111420-12ADOWNWIND	Total/NA	Air	6010B	113238
MB 570-113238/1-A	Method Blank	Total/NA	Air	6010B	113238
LCS 570-113238/2-A	Lab Control Sample	Total/NA	Air	6010B	113238
LCSD 570-113238/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	113238
570-44179-14 MS	PE-TSP110920-B606UPWIND	Total/NA	Air	6010B	113238
570-44179-14 MSD	PE-TSP110920-B606UPWIND	Total/NA	Air	6010B	113238

General Chemistry

Pre Prep Batch: 111850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-44179-14	PE-TSP110920-B606UPWIND	Total/NA	Air	Filter to Air	
570-44179-15	PE-TSP110920-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-44179-18	PE-TSP111020-B606UPWIND	Total/NA	Air	Filter to Air	
570-44179-19	PE-TSP111020-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-44179-22	PE-TSP111120-B606UPWIND	Total/NA	Air	Filter to Air	
570-44179-23	PE-TSP111120-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-44179-26	PE-TSP111220-B606UPWIND	Total/NA	Air	Filter to Air	
570-44179-27	PE-TSP111220-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-44179-30	PE-TSP111320-B606UPWIND	Total/NA	Air	Filter to Air	

General Chemistry (Continued)

Pre Prep Batch: 111850 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-44179-31	PE-TSP111320-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-44179-34	PE-TSP111420-B606UPWIND	Total/NA	Air	Filter to Air	
570-44179-35	PE-TSP111420-12ADOWNWIND	Total/NA	Air	Filter to Air	
MB 570-111850/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-44179-14 DU	PE-TSP110920-B606UPWIND	Total/NA	Air	Filter to Air	

Analysis Batch: 111869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-44179-14	PE-TSP110920-B606UPWIND	Total/NA	Air	40CFR50 App B	111850
570-44179-15	PE-TSP110920-12ADOWNWIND	Total/NA	Air	40CFR50 App B	111850
570-44179-18	PE-TSP111020-B606UPWIND	Total/NA	Air	40CFR50 App B	111850
570-44179-19	PE-TSP111020-12ADOWNWIND	Total/NA	Air	40CFR50 App B	111850
570-44179-22	PE-TSP111120-B606UPWIND	Total/NA	Air	40CFR50 App B	111850
570-44179-23	PE-TSP111120-12ADOWNWIND	Total/NA	Air	40CFR50 App B	111850
570-44179-26	PE-TSP111220-B606UPWIND	Total/NA	Air	40CFR50 App B	111850
570-44179-27	PE-TSP111220-12ADOWNWIND	Total/NA	Air	40CFR50 App B	111850
570-44179-30	PE-TSP111320-B606UPWIND	Total/NA	Air	40CFR50 App B	111850
570-44179-31	PE-TSP111320-12ADOWNWIND	Total/NA	Air	40CFR50 App B	111850
570-44179-34	PE-TSP111420-B606UPWIND	Total/NA	Air	40CFR50 App B	111850
570-44179-35	PE-TSP111420-12ADOWNWIND	Total/NA	Air	40CFR50 App B	111850
MB 570-111850/1-A	Method Blank	Total/NA	Air	40CFR50 App B	111850
570-44179-14 DU	PE-TSP110920-B606UPWIND	Total/NA	Air	40CFR50 App B	111850

Analysis Batch: 111896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-44179-16	PE_PM10110920-B606UPWIND	Total/NA	Air	PM10	
570-44179-17	PE_PM10110920-12ADOWNWIND	Total/NA	Air	PM10	
570-44179-20	PE_PM10111020-B606UPWIND	Total/NA	Air	PM10	
570-44179-21	PE_PM10111020-12ADOWNWIND	Total/NA	Air	PM10	
570-44179-24	PE_PM10111120-B606UPWIND	Total/NA	Air	PM10	
570-44179-25	PE_PM10111120-12ADOWNWIND	Total/NA	Air	PM10	
570-44179-28	PE_PM10111220-B606UPWIND	Total/NA	Air	PM10	
570-44179-29	PE_PM10111220-12ADOWNWIND	Total/NA	Air	PM10	
570-44179-32	PE_PM10111320-B606UPWIND	Total/NA	Air	PM10	
570-44179-33	PE_PM10111320-12ADOWNWIND	Total/NA	Air	PM10	
570-44179-36	PE_PM10111420-B606UPWIND	Total/NA	Air	PM10	
570-44179-37	PE_PM10111420-12ADOWNWIND	Total/NA	Air	PM10	
MB 570-111896/1	Method Blank	Total/NA	Air	PM10	
570-44179-16 DU	PE_PM10110920-B606UPWIND	Total/NA	Air	PM10	

BALANCE CALIBRATION CHECK LOG

Eurofins Calscience

Date performed: 11/25/20 Initials: RVP

ID	Class 2 Weight (g)	Reading (g)	Acceptance Range	Pass? (circle one)	Comment (If not passed, note removal or corrective action)
83	1	0.991	0.98 - 1.02	(Y) N	IO Lab
	100	100.00	98.00 - 102.00	(Y) N	
62	0.002	0.00199	0.0015 - 0.0025	(Y) N	IO Lab
	1	0.9994	0.9990 - 1.0010	(Y) N	
	100	100.0035	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	1.00	0.98 - 1.02	(Y) N	IO Lab
	100	99.97	98.00 - 102.00	(Y) N	
	500	499.92	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	0.0020	0.0015 - 0.0025	(Y) N	BOD Room
	1	0.9991	0.9990 - 1.0010	(Y) N	
	100	99.9910	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	~~1.00~~ RVP 0.10	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	0.0022	0.0015 - 0.0025	(Y) N	Solids Room
	1	0.9991	0.9990 - 1.0010	(Y) N	
	100	99.9890	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	**COMMENT:**
WT SET ID USED: 10 mg - 100 g	
WT SET ID USED: 500 g	

Lab Chronicle

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

Job ID: 570-44179-1

Client Sample ID: PE-TSP110920-B606UPWIND
Lab Sample ID: 570-44179-14
Date Collected: 11/09/20 07:09
Matrix: Air
Date Received: 11/18/20 11:30

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	113238	12/01/20 19:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			113464	12/02/20 18:57	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					111850	11/23/20 16:37	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			111869	11/23/20 16:37	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP110920-12ADOWNWIND
Lab Sample ID: 570-44179-15
Date Collected: 11/09/20 07:20
Matrix: Air
Date Received: 11/18/20 11:30

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	113238	12/01/20 19:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			113464	12/02/20 19:03	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					111850	11/23/20 16:37	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			111869	11/23/20 16:37	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10110920-B606UPWIND
Lab Sample ID: 570-44179-16
Date Collected: 11/09/20 07:09
Matrix: Air
Date Received: 11/18/20 11:30

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	4.3878 g	4.4026 g	111896	11/23/20 18:08	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10110920-12ADOWNWIND
Lab Sample ID: 570-44179-17
Date Collected: 11/09/20 07:20
Matrix: Air
Date Received: 11/18/20 11:30

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	4.3248 g	4.3331 g	111896	11/23/20 18:08	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP111020-B606UPWIND
Lab Sample ID: 570-44179-18
Date Collected: 11/10/20 07:15
Matrix: Air
Date Received: 11/18/20 11:30

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	113238	12/01/20 19:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			113464	12/02/20 19:06	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					111850	11/23/20 16:37	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			111869	11/23/20 16:37	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-44179-1

Client Sample ID: PE-TSP111020-12ADOWNWIND
Lab Sample ID: 570-44179-19
Date Collected: 11/10/20 07:23
Matrix: Air
Date Received: 11/18/20 11:30

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	113238	12/01/20 19:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			113464	12/02/20 19:08	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					111850	11/23/20 16:37	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			111869	11/23/20 16:37	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10111020-B606UPWIND
Lab Sample ID: 570-44179-20
Date Collected: 11/10/20 07:15
Matrix: Air
Date Received: 11/18/20 11:30

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	4.3925 g	4.4174 g	111896	11/23/20 18:08	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10111020-12ADOWNWIND
Lab Sample ID: 570-44179-21
Date Collected: 11/10/20 07:23
Matrix: Air
Date Received: 11/18/20 11:30

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	4.4211 g	111896	11/23/20 18:08	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP111120-B606UPWIND
Lab Sample ID: 570-44179-22
Date Collected: 11/11/20 07:05
Matrix: Air
Date Received: 11/18/20 11:30

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	113238	12/01/20 19:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			113464	12/02/20 19:10	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					111850	11/23/20 16:37	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			111869	11/23/20 16:37	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP111120-12ADOWNWIND
Lab Sample ID: 570-44179-23
Date Collected: 11/11/20 07:18
Matrix: Air
Date Received: 11/18/20 11:30

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	113238	12/01/20 19:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			113464	12/02/20 19:21	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					111850	11/23/20 16:37	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			111869	11/23/20 16:37	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-44179-1

Client Sample ID: PE_PM10111120-B606UPWIND
Lab Sample ID: 570-44179-24
Date Collected: 11/11/20 07:05
Matrix: Air
Date Received: 11/18/20 11:30

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	4.3870 g	4.4089 g	111896	11/23/20 18:08	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10111120-12ADOWNWIND
Lab Sample ID: 570-44179-25
Date Collected: 11/11/20 07:18
Matrix: Air
Date Received: 11/18/20 11:30

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	4.4022 g	4.4192 g	111896	11/23/20 18:08	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP111220-B606UPWIND
Lab Sample ID: 570-44179-26
Date Collected: 11/12/20 07:08
Matrix: Air
Date Received: 11/18/20 11:30

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	113238	12/01/20 19:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			113464	12/02/20 19:24	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					111850	11/23/20 16:37	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			111869	11/23/20 16:37	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP111220-12ADOWNWIND
Lab Sample ID: 570-44179-27
Date Collected: 11/12/20 07:20
Matrix: Air
Date Received: 11/18/20 11:30

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	113238	12/01/20 19:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			113464	12/02/20 19:26	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					111850	11/23/20 16:37	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			111869	11/23/20 16:37	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10111220-B606UPWIND
Lab Sample ID: 570-44179-28
Date Collected: 11/12/20 07:08
Matrix: Air
Date Received: 11/18/20 11:30

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	4.3246 g	4.3511 g	111896	11/23/20 18:08	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-44179-1

Client Sample ID: PE_PM10111220-12ADOWNWIND
Lab Sample ID: 570-44179-29
Date Collected: 11/12/20 07:20
Matrix: Air
Date Received: 11/18/20 11:30

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	4.3458 g	4.3705 g	111896	11/23/20 18:08	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP111320-B606UPWIND
Lab Sample ID: 570-44179-30
Date Collected: 11/13/20 07:10
Matrix: Air
Date Received: 11/18/20 11:30

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	113238	12/01/20 19:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			113464	12/02/20 19:28	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					111850	11/23/20 16:37	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			111869	11/23/20 16:37	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP111320-12ADOWNWIND
Lab Sample ID: 570-44179-31
Date Collected: 11/13/20 07:24
Matrix: Air
Date Received: 11/18/20 11:30

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	113238	12/01/20 19:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			113464	12/02/20 19:30	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					111850	11/23/20 16:37	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			111869	11/23/20 16:37	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10111320-B606UPWIND
Lab Sample ID: 570-44179-32
Date Collected: 11/13/20 07:10
Matrix: Air
Date Received: 11/18/20 11:30

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	4.3193 g	4.3250 g	111896	11/23/20 18:08	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10111320-12ADOWNWIND
Lab Sample ID: 570-44179-33
Date Collected: 11/13/20 07:24
Matrix: Air
Date Received: 11/18/20 11:30

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	4.3035 g	4.3079 g	111896	11/23/20 18:08	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-44179-1

Client Sample ID: PE-TSP111420-B606UPWIND
Lab Sample ID: 570-44179-34
Date Collected: 11/14/20 07:15
Matrix: Air
Date Received: 11/18/20 11:30

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	113238	12/01/20 19:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			113464	12/02/20 19:32	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					111850	11/23/20 16:37	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			111869	11/23/20 16:37	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP111420-12ADOWNWIND
Lab Sample ID: 570-44179-35
Date Collected: 11/14/20 07:25
Matrix: Air
Date Received: 11/18/20 11:30

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	113238	12/01/20 19:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			113464	12/02/20 19:35	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					111850	11/23/20 16:37	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			111869	11/23/20 16:37	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10111420-B606UPWIND
Lab Sample ID: 570-44179-36
Date Collected: 11/14/20 07:15
Matrix: Air
Date Received: 11/18/20 11:30

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	4.3330 g	4.3439 g	111896	11/23/20 18:08	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10111420-12ADOWNWIND
Lab Sample ID: 570-44179-37
Date Collected: 11/14/20 07:25
Matrix: Air
Date Received: 11/18/20 11:30

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	4.3618 g	4.3739 g	111896	11/23/20 18:08	UWCT	ECL 1
	Instrument ID: NOEQUIP									

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: 570-44179-1

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	11-30-20 *
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: 570-44179-1

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: 570-44179-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-44179-1	PE-ASB110920-B606UPWIND	Air	11/09/20 07:09	11/18/20 11:30	
570-44179-2	PE-ASB110920-12ADOWNWIND	Air	11/09/20 07:20	11/18/20 11:30	
570-44179-3	PE-ASB111020-B606UPWIND	Air	11/10/20 07:15	11/18/20 11:30	
570-44179-4	PE-ASB111020-12ADOWNWIND	Air	11/10/20 07:23	11/18/20 11:30	
570-44179-5	PE-ASB111120-B606UPWIND	Air	11/11/20 07:05	11/18/20 11:30	
570-44179-6	PE-ASB111120-12ADOWNWIND	Air	11/11/20 07:18	11/18/20 11:30	
570-44179-7	PE-ASB111220-B606UPWIND	Air	11/12/20 07:08	11/18/20 11:30	
570-44179-8	PE-ASB111220-12ADOWNWIND	Air	11/12/20 07:20	11/18/20 11:30	
570-44179-9	PE-ASB111320-B606UPWIND	Air	11/13/20 07:10	11/18/20 11:30	
570-44179-10	PE-ASB111320-12ADOWNWIND	Air	11/13/20 07:24	11/18/20 11:30	
570-44179-11	PE-ASB111420-B606UPWIND	Air	11/14/20 07:17	11/18/20 11:30	
570-44179-12	PE-ASB111420-12ADOWNWIND	Air	11/14/20 07:25	11/18/20 11:30	
570-44179-13	PE-ASB111420-BLANK	Air	11/14/20 07:17	11/18/20 11:30	
570-44179-14	PE-TSP110920-B606UPWIND	Air	11/09/20 07:09	11/18/20 11:30	
570-44179-15	PE-TSP110920-12ADOWNWIND	Air	11/09/20 07:20	11/18/20 11:30	
570-44179-16	PE_PM10110920-B606UPWIND	Air	11/09/20 07:09	11/18/20 11:30	
570-44179-17	PE_PM10110920-12ADOWNWIND	Air	11/09/20 07:20	11/18/20 11:30	
570-44179-18	PE-TSP111020-B606UPWIND	Air	11/10/20 07:15	11/18/20 11:30	
570-44179-19	PE-TSP111020-12ADOWNWIND	Air	11/10/20 07:23	11/18/20 11:30	
570-44179-20	PE_PM10111020-B606UPWIND	Air	11/10/20 07:15	11/18/20 11:30	
570-44179-21	PE_PM10111020-12ADOWNWIND	Air	11/10/20 07:23	11/18/20 11:30	
570-44179-22	PE-TSP111120-B606UPWIND	Air	11/11/20 07:05	11/18/20 11:30	
570-44179-23	PE-TSP111120-12ADOWNWIND	Air	11/11/20 07:18	11/18/20 11:30	
570-44179-24	PE_PM10111120-B606UPWIND	Air	11/11/20 07:05	11/18/20 11:30	
570-44179-25	PE_PM10111120-12ADOWNWIND	Air	11/11/20 07:18	11/18/20 11:30	
570-44179-26	PE-TSP111220-B606UPWIND	Air	11/12/20 07:08	11/18/20 11:30	
570-44179-27	PE-TSP111220-12ADOWNWIND	Air	11/12/20 07:20	11/18/20 11:30	
570-44179-28	PE_PM10111220-B606UPWIND	Air	11/12/20 07:08	11/18/20 11:30	
570-44179-29	PE_PM10111220-12ADOWNWIND	Air	11/12/20 07:20	11/18/20 11:30	
570-44179-30	PE-TSP111320-B606UPWIND	Air	11/13/20 07:10	11/18/20 11:30	
570-44179-31	PE-TSP111320-12ADOWNWIND	Air	11/13/20 07:24	11/18/20 11:30	
570-44179-32	PE_PM10111320-B606UPWIND	Air	11/13/20 07:10	11/18/20 11:30	
570-44179-33	PE_PM10111320-12ADOWNWIND	Air	11/13/20 07:24	11/18/20 11:30	
570-44179-34	PE-TSP111420-B606UPWIND	Air	11/14/20 07:15	11/18/20 11:30	
570-44179-35	PE-TSP111420-12ADOWNWIND	Air	11/14/20 07:25	11/18/20 11:30	
570-44179-36	PE_PM10111420-B606UPWIND	Air	11/14/20 07:15	11/18/20 11:30	
570-44179-37	PE_PM10111420-12ADOWNWIND	Air	11/14/20 07:25	11/18/20 11:30	

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: 332020824
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: 11/19/2020 01:15 PM
Analysis Date: 12/03/2020
Collected Date: 11/09/2020 - 11/14/2020

Project: HPNS - Parcel E / 500712 / 570-44179

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-ASB110920-B606UPWIND (570-44179-1) *332020824-0001*		11/09/2020	1652	<5.5	100	0.0016	<7.01	<0.0016	
PE-ASB110920-12ADOWNWIND (570-44179-2) *332020824-0002*		11/09/2020	1654	<5.5	100	0.0016	<7.01	<0.0016	Sample pulled for 10% Recount.
PE-ASB111020-B606UPWIND (570-44179-3) *332020824-0003*		11/10/2020	1696	8.5	100	0.0016	10.8	0.0025	
PE-ASB111020-12ADOWNWIND (570-44179-4) *332020824-0004*		11/10/2020	1760	<5.5	100	0.0015	<7.01	<0.0015	
PE-ASB111120-B606UPWIND (570-44179-5) *332020824-0005*		11/11/2020	1622	7	100	0.0017	8.92	0.0021	
PE-ASB111120-12ADOWNWIND (570-44179-6) *332020824-0006*		11/11/2020	1660	<5.5	100	0.0016	<7.01	<0.0016	
PE-ASB111220-B606UPWIND (570-44179-7) *332020824-0007*		11/12/2020	2038	<5.5	100	0.0013	<7.01	<0.0013	
PE-ASB111220-12ADOWNWIND (570-44179-8) *332020824-0008*		11/12/2020	1770	6	100	0.0015	7.64	0.0017	
PE-ASB111320-B606UPWIND (570-44179-9) *332020824-0009*		11/13/2020	750	<5.5	100	0.0036	<7.01	<0.0036	
PE-ASB111320-12ADOWNWIND (570-44179-10) *332020824-0010*		11/13/2020	710	<5.5	100	0.0038	<7.01	<0.0038	
PE-ASB111420-B606UPWIND (570-44179-11) *332020824-0011*		11/14/2020	1832	<5.5	100	0.0015	<7.01	<0.0015	
PE-ASB111420-12ADOWNWIND (570-44179-12) *332020824-0012*		11/14/2020	1618	<5.5	100	0.0017	<7.01	<0.0017	Sample pulled for 10% Recount.
PE-ASB111420-BLANK (570-44179-13)		11/14/2020		<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: 12/03/2020 12:19 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: 332020824
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: 11/19/2020 01:15 PM
Analysis Date: 12/03/2020
Collected Date: 11/09/2020 - 11/14/2020

Project: HPNS - Parcel E / 500712 / 570-44179

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*
332020824-0013									
PE-ASB110920-12ADOW NWIND (570-44179-2) DUP		11/09/2020	1654	<5.5	100	0.0016	<7.01	<0.0016	10% Recount; Individual-CV=0.22
332020824-0014									
PE-ASB111420-12ADOWN WIND (570-44179-12) DUP		11/14/2020	1618	<5.5	100	0.0017	<7.01	<0.0017	10% Recount; Individual-CV=0.22
332020824-0015									

The results reported have been blank corrected as applicable.

Analyst(s):
Alexis Rodriguez PCM 15

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: 12/03/2020 12:19 PM

44174

APTIM

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

570-44179 Chain of Custody

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 034

Page 1 of 2

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: *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

	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-ASB110920-B606UPWIND	CX133491	11/09/20	7:09	G	A	1	PCM			X			2.00	1.65			
2	PE-ASB110920-12ADOWNWIND	CX133498	11/09/20	7:20	G	A	1	PCM			X			2.00	1.65			
3	PE-ASB111020-B606UPWIND ER 11/20/20 -ASB111020-PAH	CX133574	11/10/20	7:15	G	A	1	PCM			X			2.00	1.70			
4	PE-ASB111012A-DOWNWIND	CX133483	11/10/20	7:23	G	A	1	PCM			X			2.00	1.76			
5	PE-ASB111120-B606UPWIND	CX133486	11/11/20	7:05	G	A	1	PCM			X			2.00	1.62			
6	PE-ASB111120-12ADOWNWIND	CX133496	11/11/20	7:18	G	A	1	PCM			X			2.00	1.66			
7	PE-ASB111220-B606UPWIND	CX133500	11/12/20	7:08	G	A	1	PCM			X			2.00	2.04			
8	PE-ASB111220-12ADOWNWIND	CX133511	11/12/20	7:20	G	A	1	PCM			X			2.00	1.77			
9	PE-ASB111320-B606UPWIND	CX133499	11/13/20	7:10	G	A	1	PCM			X			2.00	0.75			
10	PE-ASB111320-12ADOWNWIND	CX133502	11/13/20	7:24	G	A	1	PCM			X			2.00	0.71			
11	PE-ASB111420-B606UPWIND	CX133359	11/14/20	7:17	G	A	1	PCM			X			2.00	1.83			
12	PE-ASB111420-12ADOWNWIND	CX133376	11/14/20	7:25	G	A	1	PCM			X			2.00	1.62			
13	PE-ASB111420-BLANK	CX133504	11/14/20	7:17	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 Edgar Ruiz	11/14/20	1600	Edgar Ruiz Edgar Ruiz	11/14/20	1600
Lock & storage	W/17/20	0830	Edgar Ruiz Edgar Ruiz	11/17/20	0830
Edgar Ruiz Edgar Ruiz	11/17/20	1040	Mark Valentino	11/17/20	1040
Mark Valentino 10 650	11/17/20	1630		11/18/2020	11:30

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

*C-5. # 1342920

ABS=Asbestos, PO=Pipe Opening

44174

APTIM

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

570-44179 Chain of Custody

[AIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 034

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: *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

	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-ASB110920-B606UPWIND	CX133491	11/09/20	7:09	G	A	1	PCM			X			2.00	1.65			
2	PE-ASB110920-12ADOWNWIND	CX133498	11/09/20	7:20	G	A	1	PCM			X			2.00	1.65			
3	PE-ASB111020-B606UPWIND	CX133574	11/10/20	7:15	G	A	1	PCM			X			2.00	1.70			
4	PE-ASB111012A-DOWNWIND	CX133483	11/10/20	7:23	G	A	1	PCM			X			2.00	1.76			
5	PE-ASB111120-B606UPWIND	CX133486	11/11/20	7:05	G	A	1	PCM			X			2.00	1.62			
6	PE-ASB111120-12ADOWNWIND	CX133496	11/11/20	7:18	G	A	1	PCM			X			2.00	1.66			
7	PE-ASB111220-B606UPWIND	CX133500	11/12/20	7:08	G	A	1	PCM			X			2.00	2.04			
8	PE-ASB111220-12ADOWNWIND	CX133511	11/12/20	7:20	G	A	1	PCM			X			2.00	1.77			
9	PE-ASB111320-B606UPWIND	CX133499	11/13/20	7:10	G	A	1	PCM			X			2.00	0.75			
10	PE-ASB111320-12ADOWNWIND	CX133502	11/13/20	7:24	G	A	1	PCM			X			2.00	0.71			
11	PE-ASB111420-B606UPWIND	CX133359	11/14/20	7:17	G	A	1	PCM			X			2.00	1.83			
12	PE-ASB111420-12ADOWNWIND	CX133376	11/14/20	7:25	G	A	1	PCM			X			2.00	1.62			
13	PE-ASB111420-BLANK	CX133504	11/14/20	7:17	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	11/14/20	1600		11/14/20	1600
Lock & Storage	11/17/20	0830	Edgar Ruiz	11/17/20	0830
Edgar Ruiz	11/17/20	1040	Nick Valentino	11/17/20	1040
Mark Valentino	11/17/20	1630		11/18/2020	1130

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

#C-5 - # 1342990

ABS=Asbestos, PO=Pipe Openning

44154

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 034

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; NIOSH	Flow Rate (L/min.)	Sample Volume (m^3)			
14	PE-TSP110920-B606UPWIND	Q0401688	11/09/20	7:09	G	A	1	8X10 EPM Whatman					X	1132.8	839.4			
15	PE-TSP110920-12ADOWNWIND	Q0411020	11/09/20	7:20	G	A	1	8X10 EPM Whatman					X	1132.8	838.3			
16	PE_PM10110920-B606UPWIND	Q0401689	11/09/20	7:09	G	A	1	8X10 EPM Whatman				X		1132.8	839.4			
17	PE_PM10110920-12ADOWNWIND	Q0411021	11/09/20	7:20	G	A	1	8X10 EPM Whatman				X		1076.2	796.4			
18	PE-TSP111020-B606UPWIND	Q0401694	11/10/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.8	832.6			
19	PE-TSP111020-12ADOWNWIND	Q0401696	11/10/20	7:23	G	A	1	8X10 EPM Whatman					X	1132.8	13.6			
20	PE_PM10111020-B606UPWIND	Q0401695	11/10/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.8	832.6			
21	PE_PM10111020-12ADOWNWIND	Q0401697	11/10/20	7:23	G	A	1	8X10 EPM Whatman				X		1104.5	13.3			
22	PE-TSP111120-B606UPWIND	Q0410101	11/11/20	7:05	G	A	1	8X10 EPM Whatman					X	1132.8	843.9			
23	PE-TSP111120-12ADOWNWIND	Q0401699	11/11/20	7:18	G	A	1	8X10 EPM Whatman					X	1132.8	840.5			
24	PE_PM10111120-B606UPWIND	Q0401698	11/11/20	7:05	G	A	1	8X10 EPM Whatman				X		1132.8	843.9			
25	PE_PM10111120-12ADOWNWIND	Q0401700	11/11/20	7:18	G	A	1	8X10 EPM Whatman				X		1104.5	819.5			
26	PE-TSP111220-B606UPWIND	Q0410110	11/12/20	7:08	G	A	1	8X10 EPM Whatman					X	1132.8	840.5			
27	PE-TSP111220-12ADOWNWIND	Q0410112	11/12/20	7:20	G	A	1	8X10 EPM Whatman					X	1132.8	838.3			
28	PE_PM10111220-B606UPWIND	Q0410111	11/12/20	7:08	G	A	1	8X10 EPM Whatman				X		1132.8	840.5			
29	PE_PM10111220-12ADOWNWIND	Q0410113	11/12/20	7:20	G	A	1	8X10 EPM Whatman				X		1132.8	838.3			
30	PE-TSP111320-B606UPWIND	Q0410118	11/13/20	7:10	G	A	1	8X10 EPM Whatman					X	1132.8	424.8			
31	PE-TSP111320-12ADOWNWIND	Q0410120	11/13/20	7:24	G	A	1	8X10 EPM Whatman					X	1132.8	402.1			
32	PE_PM10111320-B606UPWIND	Q0410119	11/13/20	7:10	G	A	1	8X10 EPM Whatman				X		1104.5	414.2			
33	PE_PM10111320-12ADOWNWIND	Q0410121	11/13/20	7:24	G	A	1	8X10 EPM Whatman				X		1132.8	402.1			
34	PE-TSP111420-B606UPWIND	Q0410127	11/14/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.8	849.6			
35	PE-TSP111420-12ADOWNWIND	Q0410129	11/14/20	7:25	G	A	1	8X10 EPM Whatman					X	1132.8	849.6			
36	PE_PM10111420-B606UPWIND	Q0410128	11/14/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.8	849.6			
37	PE_PM10111420-12ADOWNWIND	Q0410130	11/14/20	7:25	G	A	1	8X10 EPM Whatman				X		1132.8	849.6			

AIR MONITORING LOG

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

STATION COC# 034

SAMPLE NO. PE-ASB110920-B606UPWIND 11/9/2020 *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				
CX133491	2.000	2.000	2.000	11/09/20 07:09	11/09/20 20:55	826	1.65	Asbestos	2.00

SAMPLE NO. PE-ASB110920-12ADOWNWIND 11/9/2020 *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				
CX133498	2.000	2.000	2.000	11/09/20 07:20	11/09/20 21:07	827	1.65	Asbestos	2.00

SAMPLE NO. PE-ASB111020-B606UPWIND 11/10/2020 *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				
CX133574	2.000	2.000	2.000	11/10/20 07:15	11/10/20 21:23	848	1.70	Asbestos	2.00

SAMPLE NO. PE-ASB111012A-DOWNWIND 11/10/2020 *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				
CX133483	2.000	2.000	2.000	11/10/20 07:23	11/10/20 22:03	880	1.76	Asbestos	2.00

SAMPLE NO. PE-ASB111120-B606UPWIND 11/11/2020 *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				
CX133486	2.000	2.000	2.000	11/11/20 07:05	11/11/20 20:36	811	1.62	Asbestos	2.00

SAMPLE NO. PE-ASB111120-12ADOWNWIND 11/11/2020 *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				
CX133496	2.000	2.000	2.000	11/11/20 07:18	11/11/20 21:08	830	1.66	Asbestos	2.00

SAMPLE NO. PE-ASB111220-B606UPWIND 11/12/2020 *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				
CX133500	2.000	2.000	2.000	11/12/20 07:08	11/13/20 00:07	1019	2.04	Asbestos	2.00

SAMPLE NO. PE-ASB111220-12ADOWNWIND 11/12/2020 *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				
CX133511	2.000	2.000	2.000	11/12/20 07:20	11/12/20 22:05	885	1.77	Asbestos	2.00

SAMPLE NO.	PE-ASB111320-B606UPWIND			11/13/2020 *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				
CX133499	2.000	2.000	2.000	11/13/20 07:10	11/13/20 13:25	375	0.75	Asbestos	2.00

SAMPLE NO.	PE-ASB111320-12ADOWNWIND			11/13/2020 *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				
CX133502	2.000	2.000	2.0	11/13/20 07:24	11/13/20 13:19	355	0.71	Asbestos	2.00

SAMPLE NO.	PE-ASB111420-B606UPWIND			11/14/2020 *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				
CX133359	2.000	2.000	2.0	11/14/20 07:17	11/14/20 22:33	916	1.8	Asbestos	2.00

SAMPLE NO.	PE-ASB111420-12ADOWNWIND			11/14/2020 *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				
CX133376	2.000	2.000	2.0	11/14/20 07:25	11/14/20 20:54	809	1.6	Asbestos	2.00

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

STATION COC# 034

SAMPLE NO. PE-TSP110920-B606UPWIND 11/9/2020 *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				
Q0401688	40.0	40.0	40.0	11/09/20 07:09	11/09/20 19:30	741	839.4	TSP	1132.80

SAMPLE NO. PE-TSP110920-12ADOWNWIND 11/9/2020 *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				
Q0411020	40.0	40.0	40.0	11/09/20 07:20	11/09/20 19:40	740	838.3	TSP	1132.80

SAMPLE NO. PE_PM10110920-B606UPWIND 11/9/2020 *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				
Q0401689	40.0	40.0	40.0	11/09/20 07:09	11/09/20 19:30	741	839.4	PM-10	1132.80

SAMPLE NO. PE_PM10110920-12ADOWNWIND 11/9/2020 *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				
Q0411021	38.0	38.0	38.0	11/09/20 07:20	11/09/20 19:40	740	796.4	PM-10	1076.16

SAMPLE NO. PE-TSP111020-B606UPWIND 11/10/2020 *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				
Q0401694	40.0	40.0	40.0	11/10/20 07:15	11/10/20 19:30	735	832.6	TSP	1132.80

SAMPLE NO. PE-TSP111020-12ADOWNWIND 11/10/2020 *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				
Q0401696	40.0	40.0	40.0	11/10/20 07:23	11/10/20 07:35	12	13.6	TSP	1132.80

SAMPLE NO. PE_PM10111020-B606UPWIND 11/10/2020 *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				
Q0401695	40.0	40.0	40.0	11/10/20 07:15	11/10/20 19:30	735	832.6	PM-10	1132.80

SAMPLE NO. PE_PM10111020-12ADOWNWIND 11/10/2020 *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				

Q0401697	39.0	39.0	39.0	11/10/20 07:23	11/10/20 07:35	12	13.3	PM-10	1104.48

SAMPLE NO. PE-TSP111120-B606UPWIND 11/11/2020 *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				
Q0410101	40.0	40.0	40.0	11/11/20 07:05	11/11/20 19:30	745	843.9	TSP	1132.80

SAMPLE NO. PE-TSP111120-12ADOWNWIND 11/11/2020 *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				
Q0401699	40.0	40.0	40.0	11/11/20 07:18	11/11/20 19:40	742	840.5	TSP	1132.80

SAMPLE NO. PE_PM10111120-B606UPWIND 11/11/2020 *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				
Q0401698	40.0	40.0	40.0	11/11/20 07:05	11/11/20 19:30	745	843.9	PM-10	1132.80

SAMPLE NO. PE_PM10111120-12ADOWNWIND 11/11/2020 *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				
Q0401700	39.0	39.0	39.0	11/11/20 07:18	11/11/20 19:40	742	819.5	PM-10	1104.48

SAMPLE NO. PE-TSP111220-B606UPWIND 11/12/2020 *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				
Q0410110	40.0	40.0	40.0	11/12/20 07:08	11/12/20 19:30	742	840.5	TSP	1132.80

SAMPLE NO. PE-TSP111220-12ADOWNWIND 11/12/2020 *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				
Q0410112	40.0	40.0	40.0	11/12/20 07:20	11/12/20 19:40	740	838.3	TSP	1132.80

SAMPLE NO. PE_PM10111220-B606UPWIND 11/12/2020 *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				
Q0410111	40.0	40.0	40.0	11/12/20 07:08	11/12/20 19:30	742	840.5	PM-10	1132.80

SAMPLE NO. PE_PM10111220-12ADOWNWIND 11/12/2020 *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				
Q0410113	40.0	40.0	40.0	11/12/20 07:20	11/12/20 19:40	740	838.3	PM-10	1132.80

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SAMPLE NO. PE-TSP111320-B606UPWIND 11/13/2020 *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				
Q0410118	40.0	40.0	40.0	11/13/20 07:10	11/13/20 13:25	375	424.8	TSP	1132.80

SAMPLE NO. PE-TSP111320-12ADOWNWIND 11/13/2020 *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				
Q0410120	40.0	40.0	40.0	11/13/20 07:24	11/13/20 13:19	355	402.1	TSP	1132.80

SAMPLE NO. PE_PM10111320-B606UPWIND 11/13/2020 *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				
Q0410119	38.0	40.0	39.0	11/13/20 07:10	11/13/20 13:25	375	414.2	PM-10	1104.48

SAMPLE NO. PE_PM10111320-12ADOWNWIND 11/13/2020 *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				
Q0410121	40.0	40.0	40.0	11/13/20 07:24	11/13/20 13:19	355	402.1	PM-10	1132.80

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 034

Page 2 of 2

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

REVISED

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; NIOSH	Flow Rate (L/min.)	Sample Volume (m^3)			
PE-TSP110920-B606UPWIND	Q0401688	11/09/20	7:09	G	A	1	8X10 EPM Whatman					X	1132.8	839.4			
PE-TSP110920-12ADOWNWIND	Q0411020	11/09/20	7:20	G	A	1	8X10 EPM Whatman					X	1132.8	838.3			
PE_PM10110920-B606UPWIND	Q0401689	11/09/20	7:09	G	A	1	8X10 EPM Whatman				X		1132.8	839.4			
PE_PM10110920-12ADOWNWIND	Q0411021	11/09/20	7:20	G	A	1	8X10 EPM Whatman				X		1076.2	796.4			
PE-TSP111020-B606UPWIND	Q0401694	11/10/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.8	832.6			
PE-TSP111020-12ADOWNWIND	Q0401696	11/10/20	7:23	G	A	1	8X10 EPM Whatman					X	1132.8	~~13.6~~	829.2		
PE_PM10111020-B606UPWIND	Q0401695	11/10/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.8	832.6	ER 122820		
PE_PM10111020-12ADOWNWIND	Q0401697	11/10/20	7:23	G	A	1	8X10 EPM Whatman				X		1104.5	~~13.3~~	808.5		
PE-TSP111120-B606UPWIND	Q0410101	11/11/20	7:05	G	A	1	8X10 EPM Whatman					X	1132.8	843.9			
PE-TSP111120-12ADOWNWIND	Q0401699	11/11/20	7:18	G	A	1	8X10 EPM Whatman					X	1132.8	840.5			
PE_PM10111120-B606UPWIND	Q0401698	11/11/20	7:05	G	A	1	8X10 EPM Whatman				X		1132.8	843.9			
PE_PM10111120-12ADOWNWIND	Q0401700	11/11/20	7:18	G	A	1	8X10 EPM Whatman				X		1104.5	819.5			
PE-TSP111220-B606UPWIND	Q0410110	11/12/20	7:08	G	A	1	8X10 EPM Whatman					X	1132.8	840.5			
PE-TSP111220-12ADOWNWIND	Q0410112	11/12/20	7:20	G	A	1	8X10 EPM Whatman					X	1132.8	838.3			
PE_PM10111220-B606UPWIND	Q0410111	11/12/20	7:08	G	A	1	8X10 EPM Whatman				X		1132.8	840.5			
PE_PM10111220-12ADOWNWIND	Q0410113	11/12/20	7:20	G	A	1	8X10 EPM Whatman				X		1132.8	838.3			
PE-TSP111320-B606UPWIND	Q0410118	11/13/20	7:10	G	A	1	8X10 EPM Whatman					X	1132.8	424.8			
PE-TSP111320-12ADOWNWIND	Q0410120	11/13/20	7:24	G	A	1	8X10 EPM Whatman					X	1132.8	402.1			
PE_PM10111320-B606UPWIND	Q0410119	11/13/20	7:10	G	A	1	8X10 EPM Whatman				X		1104.5	414.2			
PE_PM10111320-12ADOWNWIND	Q0410121	11/13/20	7:24	G	A	1	8X10 EPM Whatman				X		1132.8	402.1			
PE-TSP111420-B606UPWIND	Q0410127	11/14/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.8	849.6			
PE-TSP111420-12ADOWNWIND	Q0410129	11/14/20	7:25	G	A	1	8X10 EPM Whatman					X	1132.8	849.6			
PE_PM10111420-B606UPWIND	Q0410128	11/14/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.8	849.6			
PE_PM10111420-12ADOWNWIND	Q0410130	11/14/20	7:25	G	A	1	8X10 EPM Whatman				X		1132.8	849.6			

44149

GLS

570-44179 Waybill

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

Tracking #: 551202898

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

GARDEN GROVE

S92841A

30882737

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

Signature Type: STANDARD

ORC CA927-CL0

Print Date: 11/17/2020 12:40 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.

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-44179-1

Login Number: 44179
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.	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	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 570-44780-1
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:
12/15/2020 12:59:14 PM

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

Table of Contents

Client: Aptim Federal Services LLC
Job ID: 570-44780-1
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

Job ID: 570-44780-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-44780-1

Comments
No additional comments.

Receipt
The samples were received on 11/25/2020 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 570-114782 and analytical batch 570-115245 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-TSP111620-B606UPWIND
Lab Sample ID: 570-44780-14
Date Collected: 11/16/20 06:57
Matrix: Air
Date Received: 11/25/20 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		12/08/20 17:00	12/09/20 16:49	1
Lead	**8.20**	**J**	12.0	3.16	ug/Sample		12/08/20 17:00	12/09/20 16:49	1
Manganese	**38.3**	**B**	6.00	3.34	ug/Sample		12/08/20 17:00	12/09/20 16:49	1

Client Sample ID: PE-TSP111620-12ADOWNWIND
Lab Sample ID: 570-44780-15
Date Collected: 11/16/20 07:12
Matrix: Air
Date Received: 11/25/20 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		12/08/20 17:00	12/09/20 16:54	1
Lead	ND		12.0	3.16	ug/Sample		12/08/20 17:00	12/09/20 16:54	1
Manganese	**13.6**	**B**	6.00	3.34	ug/Sample		12/08/20 17:00	12/09/20 16:54	1

Client Sample ID: PE-TSP111720-B606UPWIND
Lab Sample ID: 570-44780-18
Date Collected: 11/17/20 07:35
Matrix: Air
Date Received: 11/25/20 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		12/08/20 17:00	12/09/20 16:56	1
Lead	**7.63**	**J**	12.0	3.16	ug/Sample		12/08/20 17:00	12/09/20 16:56	1
Manganese	**16.6**	**B**	6.00	3.34	ug/Sample		12/08/20 17:00	12/09/20 16:56	1

Client Sample ID: PE-TSP111720-12ADOWNWIND
Lab Sample ID: 570-44780-19
Date Collected: 11/17/20 07:43
Matrix: Air
Date Received: 11/25/20 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		12/08/20 17:00	12/09/20 16:58	1
Lead	**4.08**	**J**	12.0	3.16	ug/Sample		12/08/20 17:00	12/09/20 16:58	1
Manganese	**6.85**	**B**	6.00	3.34	ug/Sample		12/08/20 17:00	12/09/20 16:58	1

Client Sample ID: PE-TSP111820-B606UPWIND
Lab Sample ID: 570-44780-22
Date Collected: 11/18/20 07:01
Matrix: Air
Date Received: 11/25/20 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		12/08/20 17:00	12/09/20 17:01	1
Lead	ND		12.0	3.16	ug/Sample		12/08/20 17:00	12/09/20 17:01	1
Manganese	**9.48**	**B**	6.00	3.34	ug/Sample		12/08/20 17:00	12/09/20 17:01	1

Client Sample ID: PE-TSP111820-12ADOWNWIND
Lab Sample ID: 570-44780-23
Date Collected: 11/18/20 07:15
Matrix: Air
Date Received: 11/25/20 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		12/08/20 17:00	12/09/20 17:13	1
Lead	ND		12.0	3.16	ug/Sample		12/08/20 17:00	12/09/20 17:13	1
Manganese	**3.82**	**J B**	6.00	3.34	ug/Sample		12/08/20 17:00	12/09/20 17:13	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP111920-B606UPWIND — **Lab Sample ID: 570-44780-26**
Date Collected: 11/19/20 07:05 — **Matrix: Air**
Date Received: 11/25/20 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		12/08/20 17:00	12/09/20 17:16	1
Lead	**4.60**	**J**	12.0	3.16	ug/Sample		12/08/20 17:00	12/09/20 17:16	1
Manganese	**11.0**	**B**	6.00	3.34	ug/Sample		12/08/20 17:00	12/09/20 17:16	1

Client Sample ID: PE-TSP111920-12ADOWNWIND — **Lab Sample ID: 570-44780-27**
Date Collected: 11/19/20 07:22 — **Matrix: Air**
Date Received: 11/25/20 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		12/08/20 17:00	12/09/20 17:17	1
Lead	**7.17**	**J**	12.0	3.16	ug/Sample		12/08/20 17:00	12/09/20 17:17	1
Manganese	**6.83**	**B**	6.00	3.34	ug/Sample		12/08/20 17:00	12/09/20 17:17	1

Client Sample ID: PE-TSP112020-B606UPWIND — **Lab Sample ID: 570-44780-30**
Date Collected: 11/20/20 07:15 — **Matrix: Air**
Date Received: 11/25/20 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		12/08/20 17:00	12/09/20 17:20	1
Lead	**5.44**	**J**	12.0	3.16	ug/Sample		12/08/20 17:00	12/09/20 17:20	1
Manganese	**20.7**	**B**	6.00	3.34	ug/Sample		12/08/20 17:00	12/09/20 17:20	1

Client Sample ID: PE-TSP112020-12ADOWNWIND — **Lab Sample ID: 570-44780-31**
Date Collected: 11/20/20 07:30 — **Matrix: Air**
Date Received: 11/25/20 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		12/08/20 17:00	12/09/20 17:21	1
Lead	**7.88**	**J**	12.0	3.16	ug/Sample		12/08/20 17:00	12/09/20 17:21	1
Manganese	**16.0**	**B**	6.00	3.34	ug/Sample		12/08/20 17:00	12/09/20 17:21	1

Client Sample ID: PE-TSP112120-B606UPWIND — **Lab Sample ID: 570-44780-34**
Date Collected: 11/21/20 07:15 — **Matrix: Air**
Date Received: 11/25/20 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		12/08/20 17:00	12/09/20 17:23	1
Lead	**13.1**		12.0	3.16	ug/Sample		12/08/20 17:00	12/09/20 17:23	1
Manganese	**25.9**	**B**	6.00	3.34	ug/Sample		12/08/20 17:00	12/09/20 17:23	1

Client Sample ID: PE-TSP112120-12ADOWNWIND — **Lab Sample ID: 570-44780-35**
Date Collected: 11/21/20 07:27 — **Matrix: Air**
Date Received: 11/25/20 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		12/08/20 17:00	12/09/20 17:25	1
Lead	**9.65**	**J**	12.0	3.16	ug/Sample		12/08/20 17:00	12/09/20 17:25	1
Manganese	**14.0**	**B**	6.00	3.34	ug/Sample		12/08/20 17:00	12/09/20 17:25	1

General Chemistry

Client Sample ID: PE-TSP111620-B606UPWIND — **Lab Sample ID: 570-44780-14**
Date Collected: 11/16/20 06:57 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	66.6		6.00	6.00	ug/m3			12/01/20 15:06	1

Client Sample ID: PE-TSP111620-12ADOWNWIND — **Lab Sample ID: 570-44780-15**
Date Collected: 11/16/20 07:12 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	34.9		6.19	6.19	ug/m3			12/01/20 15:06	1

Client Sample ID: PE-PM10111620-B606UPWIND — **Lab Sample ID: 570-44780-16**
Date Collected: 11/16/20 06:57 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	54.0		5.85	5.85	ug/m3			12/01/20 15:44	1

Client Sample ID: PE-PM10111620-12ADOWNWIND — **Lab Sample ID: 570-44780-17**
Date Collected: 11/16/20 07:12 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	71.4		6.51	6.51	ug/m3			12/01/20 15:44	1

Client Sample ID: PE-TSP111720-B606UPWIND — **Lab Sample ID: 570-44780-18**
Date Collected: 11/17/20 07:35 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	178		17.1	17.1	ug/m3			12/01/20 15:06	1

Client Sample ID: PE-TSP111720-12ADOWNWIND — **Lab Sample ID: 570-44780-19**
Date Collected: 11/17/20 07:43 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	ND		13.0	13.0	ug/m3			12/01/20 15:06	1

Client Sample ID: PE-PM10111720-B606UPWIND — **Lab Sample ID: 570-44780-20**
Date Collected: 11/17/20 07:35 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	137		17.1	17.1	ug/m3			12/01/20 15:44	1

Client Sample ID: PE-PM10111720-12ADOWNWIND — **Lab Sample ID: 570-44780-21**
Date Collected: 11/17/20 07:43 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	70.6		13.3	13.3	ug/m3			12/01/20 15:44	1

General Chemistry

Client Sample ID: PE-TSP111820-B606UPWIND — **Lab Sample ID: 570-44780-22**
Date Collected: 11/18/20 07:01 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	24.6		2.68	2.68	ug/m3			12/01/20 15:06	1

Client Sample ID: PE-TSP111820-12ADOWNWIND — **Lab Sample ID: 570-44780-23**
Date Collected: 11/18/20 07:15 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	8.00		2.64	2.64	ug/m3			12/01/20 15:06	1

Client Sample ID: PE-PM10111820-B606UPWIND — **Lab Sample ID: 570-44780-24**
Date Collected: 11/18/20 07:01 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	15.4		2.68	2.68	ug/m3			12/01/20 15:44	1

Client Sample ID: PE-PM10111820-12ADOWNWIND — **Lab Sample ID: 570-44780-25**
Date Collected: 11/18/20 07:15 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	18.6		2.71	2.71	ug/m3			12/01/20 15:44	1

Client Sample ID: PE-TSP111920-B606UPWIND — **Lab Sample ID: 570-44780-26**
Date Collected: 11/19/20 07:05 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	34.4		2.33	2.33	ug/m3			12/01/20 15:06	1

Client Sample ID: PE-TSP111920-12ADOWNWIND — **Lab Sample ID: 570-44780-27**
Date Collected: 11/19/20 07:22 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	12.3		2.35	2.35	ug/m3			12/01/20 15:06	1

Client Sample ID: PE-PM10111920-B606UPWIND — **Lab Sample ID: 570-44780-28**
Date Collected: 11/19/20 07:05 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	13.2		2.36	2.36	ug/m3			12/01/20 15:44	1

Client Sample ID: PE-PM10111920-12ADOWNWIND — **Lab Sample ID: 570-44780-29**
Date Collected: 11/19/20 07:22 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	37.3		2.35	2.35	ug/m3			12/01/20 15:44	1

General Chemistry

Client Sample ID: PE-TSP112020-B606UPWIND — **Lab Sample ID: 570-44780-30**
Date Collected: 11/20/20 07:15 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	96.9		2.35	2.35	ug/m3			12/01/20 15:06	1

Client Sample ID: PE-TSP112020-12ADOWNWIND — **Lab Sample ID: 570-44780-31**
Date Collected: 11/20/20 07:30 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	33.6		2.36	2.36	ug/m3			12/01/20 15:06	1

Client Sample ID: PE-PM10112020-B606UPWIND — **Lab Sample ID: 570-44780-32**
Date Collected: 11/20/20 07:15 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	17.9		2.41	2.41	ug/m3			12/01/20 16:13	1

Client Sample ID: PE-PM10112020-12ADOWNWIND — **Lab Sample ID: 570-44780-33**
Date Collected: 11/20/20 07:30 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	38.6		2.36	2.36	ug/m3			12/01/20 16:13	1

Client Sample ID: PE-TSP112120-B606UPWIND — **Lab Sample ID: 570-44780-34**
Date Collected: 11/21/20 07:15 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	19.4		2.43	2.43	ug/m3			12/01/20 15:06	1

Client Sample ID: PE-TSP112120-12ADOWNWIND — **Lab Sample ID: 570-44780-35**
Date Collected: 11/21/20 07:27 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	64.7		2.43	2.43	ug/m3			12/01/20 15:06	1

Client Sample ID: PE-PM10112120-B606UPWIND — **Lab Sample ID: 570-44780-36**
Date Collected: 11/21/20 07:15 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	16.4		2.43	2.43	ug/m3			12/01/20 16:13	1

Client Sample ID: PE-PM10112120-12ADOWNWIND — **Lab Sample ID: 570-44780-37**
Date Collected: 11/21/20 07:27 — **Matrix: Air**
Date Received: 11/25/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	35.9		2.43	2.43	ug/m3			12/01/20 16:13	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-114782/1-A
Matrix: Air
Analysis Batch: 115245

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 114782

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/08/20 17:00	12/09/20 16:42	1
Lead	ND		12.0	3.16	ug/Sample		12/08/20 17:00	12/09/20 16:42	1
Manganese	4.248	J	6.00	3.34	ug/Sample		12/08/20 17:00	12/09/20 16:42	1

Lab Sample ID: LCS 570-114782/2-A
Matrix: Air
Analysis Batch: 115245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 114782

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	600	539.7		ug/Sample		90	80 - 120
Lead	600	520.4		ug/Sample		87	80 - 120
Manganese	600	525.5		ug/Sample		88	80 - 120

Lab Sample ID: LCSD 570-114782/3-A
Matrix: Air
Analysis Batch: 115245

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 114782

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	600	516.7		ug/Sample		86	80 - 120	4	20
Lead	600	516.4		ug/Sample		86	80 - 120	1	20
Manganese	600	517.2		ug/Sample		86	80 - 120	2	20

Lab Sample ID: 570-44780-14 MS
Matrix: Air
Analysis Batch: 115245

Client Sample ID: PE-TSP111620-B606UPWIND
Prep Type: Total/NA
Prep Batch: 114782

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		600	517.7		ug/Sample		86	75 - 125
Lead	8.20	J	600	526.7		ug/Sample		86	75 - 125
Manganese	38.3	B	600	555.2		ug/Sample		86	75 - 125

Lab Sample ID: 570-44780-14 MSD
Matrix: Air
Analysis Batch: 115245

Client Sample ID: PE-TSP111620-B606UPWIND
Prep Type: Total/NA
Prep Batch: 114782

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		600	528.1		ug/Sample		88	75 - 125	2	20
Lead	8.20	J	600	522.1		ug/Sample		86	75 - 125	1	20
Manganese	38.3	B	600	552.4		ug/Sample		86	75 - 125	1	20

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

Lab Sample ID: MB 570-113175/1-A
Matrix: Air
Analysis Batch: 113178

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			12/01/20 15:06	1

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

Lab Sample ID: 570-44780-14 DU
Matrix: Air
Analysis Batch: 113178

Client Sample ID: PE-TSP111620-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	66.6			66.56		ug/m3				0	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-112578/1
Matrix: Air
Analysis Batch: 112578

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			12/01/20 15:44	1

Lab Sample ID: 570-44780-25 DU
Matrix: Air
Analysis Batch: 112578

Client Sample ID: PE-PM10111820-12ADOWNWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	18.6			18.58		ug/m3				0	25

Lab Sample ID: MB 570-113192/1
Matrix: Air
Analysis Batch: 113192

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			12/01/20 16:13	1

Lab Sample ID: 570-44780-32 DU
Matrix: Air
Analysis Batch: 113192

Client Sample ID: PE-PM10112020-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	17.9			17.87		ug/m3				0	25

Metals

Prep Batch: 114782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-44780-14	PE-TSP111620-B606UPWIND	Total/NA	Air	3050B	
570-44780-15	PE-TSP111620-12ADOWNWIND	Total/NA	Air	3050B	
570-44780-18	PE-TSP111720-B606UPWIND	Total/NA	Air	3050B	
570-44780-19	PE-TSP111720-12ADOWNWIND	Total/NA	Air	3050B	
570-44780-22	PE-TSP111820-B606UPWIND	Total/NA	Air	3050B	
570-44780-23	PE-TSP111820-12ADOWNWIND	Total/NA	Air	3050B	
570-44780-26	PE-TSP111920-B606UPWIND	Total/NA	Air	3050B	
570-44780-27	PE-TSP111920-12ADOWNWIND	Total/NA	Air	3050B	
570-44780-30	PE-TSP112020-B606UPWIND	Total/NA	Air	3050B	
570-44780-31	PE-TSP112020-12ADOWNWIND	Total/NA	Air	3050B	
570-44780-34	PE-TSP112120-B606UPWIND	Total/NA	Air	3050B	
570-44780-35	PE-TSP112120-12ADOWNWIND	Total/NA	Air	3050B	
MB 570-114782/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-114782/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-114782/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-44780-14 MS	PE-TSP111620-B606UPWIND	Total/NA	Air	3050B	
570-44780-14 MSD	PE-TSP111620-B606UPWIND	Total/NA	Air	3050B	

Analysis Batch: 115245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-44780-14	PE-TSP111620-B606UPWIND	Total/NA	Air	6010B	114782
570-44780-15	PE-TSP111620-12ADOWNWIND	Total/NA	Air	6010B	114782
570-44780-18	PE-TSP111720-B606UPWIND	Total/NA	Air	6010B	114782
570-44780-19	PE-TSP111720-12ADOWNWIND	Total/NA	Air	6010B	114782
570-44780-22	PE-TSP111820-B606UPWIND	Total/NA	Air	6010B	114782
570-44780-23	PE-TSP111820-12ADOWNWIND	Total/NA	Air	6010B	114782
570-44780-26	PE-TSP111920-B606UPWIND	Total/NA	Air	6010B	114782
570-44780-27	PE-TSP111920-12ADOWNWIND	Total/NA	Air	6010B	114782
570-44780-30	PE-TSP112020-B606UPWIND	Total/NA	Air	6010B	114782
570-44780-31	PE-TSP112020-12ADOWNWIND	Total/NA	Air	6010B	114782
570-44780-34	PE-TSP112120-B606UPWIND	Total/NA	Air	6010B	114782
570-44780-35	PE-TSP112120-12ADOWNWIND	Total/NA	Air	6010B	114782
MB 570-114782/1-A	Method Blank	Total/NA	Air	6010B	114782
LCS 570-114782/2-A	Lab Control Sample	Total/NA	Air	6010B	114782
LCSD 570-114782/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	114782
570-44780-14 MS	PE-TSP111620-B606UPWIND	Total/NA	Air	6010B	114782
570-44780-14 MSD	PE-TSP111620-B606UPWIND	Total/NA	Air	6010B	114782

General Chemistry

Analysis Batch: 112578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-44780-16	PE-PM10111620-B606UPWIND	Total/NA	Air	PM10	
570-44780-17	PE-PM10111620-12ADOWNWIND	Total/NA	Air	PM10	
570-44780-20	PE-PM10111720-B606UPWIND	Total/NA	Air	PM10	
570-44780-21	PE-PM10111720-12ADOWNWIND	Total/NA	Air	PM10	
570-44780-24	PE-PM10111820-B606UPWIND	Total/NA	Air	PM10	
570-44780-25	PE-PM10111820-12ADOWNWIND	Total/NA	Air	PM10	
570-44780-28	PE-PM10111920-B606UPWIND	Total/NA	Air	PM10	
570-44780-29	PE-PM10111920-12ADOWNWIND	Total/NA	Air	PM10	
MB 570-112578/1	Method Blank	Total/NA	Air	PM10	

General Chemistry (Continued)

Analysis Batch: 112578 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-44780-25 DU	PE-PM10111820-12ADOWNWIND	Total/NA	Air	PM10	

Pre Prep Batch: 113175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-44780-14	PE-TSP111620-B606UPWIND	Total/NA	Air	Filter to Air	
570-44780-15	PE-TSP111620-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-44780-18	PE-TSP111720-B606UPWIND	Total/NA	Air	Filter to Air	
570-44780-19	PE-TSP111720-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-44780-22	PE-TSP111820-B606UPWIND	Total/NA	Air	Filter to Air	
570-44780-23	PE-TSP111820-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-44780-26	PE-TSP111920-B606UPWIND	Total/NA	Air	Filter to Air	
570-44780-27	PE-TSP111920-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-44780-30	PE-TSP112020-B606UPWIND	Total/NA	Air	Filter to Air	
570-44780-31	PE-TSP112020-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-44780-34	PE-TSP112120-B606UPWIND	Total/NA	Air	Filter to Air	
570-44780-35	PE-TSP112120-12ADOWNWIND	Total/NA	Air	Filter to Air	
MB 570-113175/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-44780-14 DU	PE-TSP111620-B606UPWIND	Total/NA	Air	Filter to Air	

Analysis Batch: 113178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-44780-14	PE-TSP111620-B606UPWIND	Total/NA	Air	40CFR50 App B	113175
570-44780-15	PE-TSP111620-12ADOWNWIND	Total/NA	Air	40CFR50 App B	113175
570-44780-18	PE-TSP111720-B606UPWIND	Total/NA	Air	40CFR50 App B	113175
570-44780-19	PE-TSP111720-12ADOWNWIND	Total/NA	Air	40CFR50 App B	113175
570-44780-22	PE-TSP111820-B606UPWIND	Total/NA	Air	40CFR50 App B	113175
570-44780-23	PE-TSP111820-12ADOWNWIND	Total/NA	Air	40CFR50 App B	113175
570-44780-26	PE-TSP111920-B606UPWIND	Total/NA	Air	40CFR50 App B	113175
570-44780-27	PE-TSP111920-12ADOWNWIND	Total/NA	Air	40CFR50 App B	113175
570-44780-30	PE-TSP112020-B606UPWIND	Total/NA	Air	40CFR50 App B	113175
570-44780-31	PE-TSP112020-12ADOWNWIND	Total/NA	Air	40CFR50 App B	113175
570-44780-34	PE-TSP112120-B606UPWIND	Total/NA	Air	40CFR50 App B	113175
570-44780-35	PE-TSP112120-12ADOWNWIND	Total/NA	Air	40CFR50 App B	113175
MB 570-113175/1-A	Method Blank	Total/NA	Air	40CFR50 App B	113175
570-44780-14 DU	PE-TSP111620-B606UPWIND	Total/NA	Air	40CFR50 App B	113175

Analysis Batch: 113192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-44780-32	PE-PM10112020-B606UPWIND	Total/NA	Air	PM10	
570-44780-33	PE-PM10112020-12ADOWNWIND	Total/NA	Air	PM10	
570-44780-36	PE-PM10112120-B606UPWIND	Total/NA	Air	PM10	
570-44780-37	PE-PM10112120-12ADOWNWIND	Total/NA	Air	PM10	
MB 570-113192/1	Method Blank	Total/NA	Air	PM10	
570-44780-32 DU	PE-PM10112020-B606UPWIND	Total/NA	Air	PM10	

BALANCE CALIBRATION CHECK LOG

Eurofins Calscience

Date performed: 12 / 01 / 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	0.0026	0.0015 - 0.0025	Y N	IO Lab
	1	0.9992	0.9990 - 1.0010	Y N	
	100	100.0032	99.9000 - 100.1000	Y N	
11	1	1.00	0.98 - 1.02	Y N	IO Lab
	100	99.97	98.00 - 102.00	Y N	
55	1	1.00	0.98 - 1.02	Y N	IO Lab
	100	99.96	98.00 - 102.00	Y N	
	500	499.88	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	499.98	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	99.9892	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 0.99	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	0.9992	0.9990 - 1.0010	Y N	
	100	99.9907	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	
				Y N	

Comments:

WT SET ID USED: 2 mg 1000151861	**COMMENT:**
WT SET ID USED: 10 mg - 100 g 1000152359	
WT SET ID USED: 500 g 69073	

Lab Chronicle

Client: Aptim Federal Services LLC
Job ID: 570-44780-1
Project/Site: HPNS - Parcel E / 500712

Client Sample ID: PE-TSP111620-B606UPWIND
Lab Sample ID: 570-44780-14
Date Collected: 11/16/20 06:57
Matrix: Air
Date Received: 11/25/20 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	114782	12/08/20 17:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			115245	12/09/20 16:49	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					113175	12/01/20 15:06	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			113178	12/01/20 15:06	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP111620-12ADOWNWIND
Lab Sample ID: 570-44780-15
Date Collected: 11/16/20 07:12
Matrix: Air
Date Received: 11/25/20 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	114782	12/08/20 17:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			115245	12/09/20 16:54	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					113175	12/01/20 15:06	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			113178	12/01/20 15:06	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10111620-B606UPWIND
Lab Sample ID: 570-44780-16
Date Collected: 11/16/20 06:57
Matrix: Air
Date Received: 11/25/20 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	4.3318 g	4.3595 g	112578	12/01/20 15:44	T9SG	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10111620-12ADOWNWIND
Lab Sample ID: 570-44780-17
Date Collected: 11/16/20 07:12
Matrix: Air
Date Received: 11/25/20 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	4.3016 g	4.3345 g	112578	12/01/20 15:44	T9SG	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP111720-B606UPWIND
Lab Sample ID: 570-44780-18
Date Collected: 11/17/20 07:35
Matrix: Air
Date Received: 11/25/20 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	114782	12/08/20 17:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			115245	12/09/20 16:56	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					113175	12/01/20 15:06	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			113178	12/01/20 15:06	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client: Aptim Federal Services LLC
Job ID: 570-44780-1
Project/Site: HPNS - Parcel E / 500712

Client Sample ID: PE-TSP111720-12ADOWNWIND
Lab Sample ID: 570-44780-19
Date Collected: 11/17/20 07:43
Matrix: Air
Date Received: 11/25/20 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	114782	12/08/20 17:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			115245	12/09/20 16:58	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					113175	12/01/20 15:06	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			113178	12/01/20 15:06	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10111720-B606UPWIND
Lab Sample ID: 570-44780-20
Date Collected: 11/17/20 07:35
Matrix: Air
Date Received: 11/25/20 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	4.3291 g	4.3532 g	112578	12/01/20 15:44	T9SG	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10111720-12ADOWNWIND
Lab Sample ID: 570-44780-21
Date Collected: 11/17/20 07:43
Matrix: Air
Date Received: 11/25/20 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	4.3480 g	4.3639 g	112578	12/01/20 15:44	T9SG	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP111820-B606UPWIND
Lab Sample ID: 570-44780-22
Date Collected: 11/18/20 07:01
Matrix: Air
Date Received: 11/25/20 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	114782	12/08/20 17:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			115245	12/09/20 17:01	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					113175	12/01/20 15:06	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			113178	12/01/20 15:06	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP111820-12ADOWNWIND
Lab Sample ID: 570-44780-23
Date Collected: 11/18/20 07:15
Matrix: Air
Date Received: 11/25/20 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	114782	12/08/20 17:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			115245	12/09/20 17:13	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					113175	12/01/20 15:06	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			113178	12/01/20 15:06	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-44780-1

Client Sample ID: PE-PM10111820-B606UPWIND

Lab Sample ID: 570-44780-24

Date Collected: 11/18/20 07:01
Matrix: Air
Date Received: 11/25/20 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	4.3248 g	4.3421 g	112578	12/01/20 15:44	T9SG	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10111820-12ADOWNWIND

Lab Sample ID: 570-44780-25

Date Collected: 11/18/20 07:15
Matrix: Air
Date Received: 11/25/20 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	4.3434 g	4.3640 g	112578	12/01/20 15:44	T9SG	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP111920-B606UPWIND

Lab Sample ID: 570-44780-26

Date Collected: 11/19/20 07:05
Matrix: Air
Date Received: 11/25/20 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	114782	12/08/20 17:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			115245	12/09/20 17:16	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					113175	12/01/20 15:06	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			113178	12/01/20 15:06	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP111920-12ADOWNWIND

Lab Sample ID: 570-44780-27

Date Collected: 11/19/20 07:22
Matrix: Air
Date Received: 11/25/20 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	114782	12/08/20 17:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			115245	12/09/20 17:17	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					113175	12/01/20 15:06	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			113178	12/01/20 15:06	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10111920-B606UPWIND

Lab Sample ID: 570-44780-28

Date Collected: 11/19/20 07:05
Matrix: Air
Date Received: 11/25/20 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	4.2812 g	4.2979 g	112578	12/01/20 15:44	T9SG	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-44780-1

Client Sample ID: PE-PM10111920-12ADOWNWIND

Lab Sample ID: 570-44780-29

Date Collected: 11/19/20 07:22
Matrix: Air
Date Received: 11/25/20 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	4.3384 g	4.3860 g	112578	12/01/20 15:44	T9SG	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP112020-B606UPWIND

Lab Sample ID: 570-44780-30

Date Collected: 11/20/20 07:15
Matrix: Air
Date Received: 11/25/20 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	114782	12/08/20 17:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			115245	12/09/20 17:20	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					113175	12/01/20 15:06	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			113178	12/01/20 15:06	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP112020-12ADOWNWIND

Lab Sample ID: 570-44780-31

Date Collected: 11/20/20 07:30
Matrix: Air
Date Received: 11/25/20 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	114782	12/08/20 17:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			115245	12/09/20 17:21	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					113175	12/01/20 15:06	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			113178	12/01/20 15:06	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10112020-B606UPWIND

Lab Sample ID: 570-44780-32

Date Collected: 11/20/20 07:15
Matrix: Air
Date Received: 11/25/20 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	4.2859 g	4.3081 g	113192	12/01/20 16:13	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10112020-12ADOWNWIND

Lab Sample ID: 570-44780-33

Date Collected: 11/20/20 07:30
Matrix: Air
Date Received: 11/25/20 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	4.3130 g	4.3620 g	113192	12/01/20 16:13	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Aptim Federal Services LLC
Job ID: 570-44780-1
Project/Site: HPNS - Parcel E / 500712

Client Sample ID: PE-TSP112120-B606UPWIND
Lab Sample ID: 570-44780-34
Date Collected: 11/21/20 07:15
Matrix: Air
Date Received: 11/25/20 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	114782	12/08/20 17:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			115245	12/09/20 17:23	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					113175	12/01/20 15:06	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			113178	12/01/20 15:06	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP112120-12ADOWNWIND
Lab Sample ID: 570-44780-35
Date Collected: 11/21/20 07:27
Matrix: Air
Date Received: 11/25/20 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	114782	12/08/20 17:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			115245	12/09/20 17:25	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					113175	12/01/20 15:06	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			113178	12/01/20 15:06	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10112120-B606UPWIND
Lab Sample ID: 570-44780-36
Date Collected: 11/21/20 07:15
Matrix: Air
Date Received: 11/25/20 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	4.3442 g	4.3645 g	113192	12/01/20 16:13	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10112120-12ADOWNWIND
Lab Sample ID: 570-44780-37
Date Collected: 11/21/20 07:27
Matrix: Air
Date Received: 11/25/20 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	4.2864 g	4.3307 g	113192	12/01/20 16:13	UWCT	ECL 1
	Instrument ID: NOEQUIP									

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: 570-44780-1

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	11-30-20 *
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: 570-44780-1

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: 570-44780-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-44780-1	PE-ASB111620-B606UPWIND	Air	11/16/20 06:57	11/25/20 11:00	
570-44780-2	PE-ASB111620-12ADOWNWIND	Air	11/16/20 07:12	11/25/20 11:00	
570-44780-3	PE-ASB111720-B606UPWIND	Air	11/17/20 07:35	11/25/20 11:00	
570-44780-4	PE-ASB111720-12ADOWNWIND	Air	11/17/20 07:43	11/25/20 11:00	
570-44780-5	PE-ASB111820-B606UPWIND	Air	11/18/20 07:01	11/25/20 11:00	
570-44780-6	PE-ASB111820-12ADOWNWIND	Air	11/18/20 07:15	11/25/20 11:00	
570-44780-7	PE-ASB111920-B606UPWIND	Air	11/19/20 07:05	11/25/20 11:00	
570-44780-8	PE-ASB111920-12ADOWNWIND	Air	11/19/20 07:22	11/25/20 11:00	
570-44780-9	PE-ASB112020-B606UPWIND	Air	11/20/20 07:15	11/25/20 11:00	
570-44780-10	PE-ASB112020-12ADOWNWIND	Air	11/20/20 07:30	11/25/20 11:00	
570-44780-11	PE-ASB112120-B606UPWIND	Air	11/21/20 07:15	11/25/20 11:00	
570-44780-12	PE-ASB112120-12ADOWNWIND	Air	11/21/20 07:27	11/25/20 11:00	
570-44780-13	PE-ASB112120-BLANK	Air	11/21/20 07:15	11/25/20 11:00	
570-44780-14	PE-TSP111620-B606UPWIND	Air	11/16/20 06:57	11/25/20 11:00	
570-44780-15	PE-TSP111620-12ADOWNWIND	Air	11/16/20 07:12	11/25/20 11:00	
570-44780-16	PE-PM10111620-B606UPWIND	Air	11/16/20 06:57	11/25/20 11:00	
570-44780-17	PE-PM10111620-12ADOWNWIND	Air	11/16/20 07:12	11/25/20 11:00	
570-44780-18	PE-TSP111720-B606UPWIND	Air	11/17/20 07:35	11/25/20 11:00	
570-44780-19	PE-TSP111720-12ADOWNWIND	Air	11/17/20 07:43	11/25/20 11:00	
570-44780-20	PE-PM10111720-B606UPWIND	Air	11/17/20 07:35	11/25/20 11:00	
570-44780-21	PE-PM10111720-12ADOWNWIND	Air	11/17/20 07:43	11/25/20 11:00	
570-44780-22	PE-TSP111820-B606UPWIND	Air	11/18/20 07:01	11/25/20 11:00	
570-44780-23	PE-TSP111820-12ADOWNWIND	Air	11/18/20 07:15	11/25/20 11:00	
570-44780-24	PE-PM10111820-B606UPWIND	Air	11/18/20 07:01	11/25/20 11:00	
570-44780-25	PE-PM10111820-12ADOWNWIND	Air	11/18/20 07:15	11/25/20 11:00	
570-44780-26	PE-TSP111920-B606UPWIND	Air	11/19/20 07:05	11/25/20 11:00	
570-44780-27	PE-TSP111920-12ADOWNWIND	Air	11/19/20 07:22	11/25/20 11:00	
570-44780-28	PE-PM10111920-B606UPWIND	Air	11/19/20 07:05	11/25/20 11:00	
570-44780-29	PE-PM10111920-12ADOWNWIND	Air	11/19/20 07:22	11/25/20 11:00	
570-44780-30	PE-TSP112020-B606UPWIND	Air	11/20/20 07:15	11/25/20 11:00	
570-44780-31	PE-TSP112020-12ADOWNWIND	Air	11/20/20 07:30	11/25/20 11:00	
570-44780-32	PE-PM10112020-B606UPWIND	Air	11/20/20 07:15	11/25/20 11:00	
570-44780-33	PE-PM10112020-12ADOWNWIND	Air	11/20/20 07:30	11/25/20 11:00	
570-44780-34	PE-TSP112120-B606UPWIND	Air	11/21/20 07:15	11/25/20 11:00	
570-44780-35	PE-TSP112120-12ADOWNWIND	Air	11/21/20 07:27	11/25/20 11:00	
570-44780-36	PE-PM10112120-B606UPWIND	Air	11/21/20 07:15	11/25/20 11:00	
570-44780-37	PE-PM10112120-12ADOWNWIND	Air	11/21/20 07:27	11/25/20 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: 332021552
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: 11/30/2020 01:10 PM
Analysis Date: 12/11/2020
Collected Date: 11/16/2020 - 11/21/2020

Project: HPNS - Parcel E / 500712 / 570-44780

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-ASB111620-B606UPWIND (570-44780-1) *332021552-0001*		11/16/2020	2110	<5.5	100	0.0013	<7.01	<0.0013	
PE-ASB111620-12ADOWNWIND (570-44780-2) *332021552-0002*		11/16/2020	1830	<5.5	100	0.0015	<7.01	<0.0015	
PE-ASB111720-B606UPWIND (570-44780-3) *332021552-0003*		11/17/2020	310	<5.5	100	0.0087	<7.01	<0.0087	Sample pulled for 10% recount
PE-ASB111720-12ADOWNWIND (570-44780-4) *332021552-0004*		11/17/2020	410	<5.5	100	0.0066	<7.01	<0.0066	
PE-ASB111820-B606UPWIND (570-44780-5) *332021552-0005*		11/18/2020	1980	<5.5	100	0.0014	<7.01	<0.0014	
PE-ASB111820-12ADOWNWIND (570-44780-6) *332021552-0006*		11/18/2020	1870	<5.5	100	0.0014	<7.01	<0.0014	
PE-ASB111920-B606UPWIND (570-44780-7) *332021552-0007*		11/19/2020	2900	<5.5	100	0.0009	<7.01	<0.0009	
PE-ASB111920-12ADOWNWIND (570-44780-8) *332021552-0008*		11/19/2020	2900	<5.5	100	0.0009	<7.01	<0.0009	
PE-ASB112020-B606UPWIND (570-44780-9) *332021552-0009*		11/20/2020	2710	<5.5	100	0.0010	<7.01	<0.0010	
PE-ASB112020-12ADOWNWIND (570-44780-10) *332021552-0010*		11/20/2020	2700	<5.5	100	0.0010	<7.01	<0.0010	
PE-ASB112120-B606UPWIND (570-44780-11) *332021552-0011*		11/21/2020	2000	6.5	100	0.0014	8.28	0.0016	
PE-ASB112120-12ADOWNWIND (570-44780-12) *332021552-0012*		11/21/2020	1600	<5.5	100	0.0017	<7.01	<0.0017	Sample pulled for 10% recount
PE-ASB112120-BLANK (570-44780-13) *332021552-0013*		11/21/2020		<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: 12/11/2020 12:59 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: 332021552
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: 11/30/2020 01:10 PM
Analysis Date: 12/11/2020
Collected Date: 11/16/2020 - 11/21/2020

Project: HPNS - Parcel E / 500712 / 570-44780

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-ASB111720-B606UPWIND (570-44780-3)-Recount *332021552-0014*		11/17/2020	310	<5.5	100	0.0087	<7.01	<0.0087	10% Recount; Individual-CV=0.24
PE-ASB112120-12ADOWNWIND (570-44780-12)-Recount *332021552-0015*		11/21/2020	1600	<5.5	100	0.0017	<7.01	<0.0017	10% Recount; Individual-CV=0.24

The results reported have been blank corrected as applicable.

Analyst(s):
Brian Magumcia PCM 15

Michael Chapman, Laboratory Manager
or other Approved Signatory

Initial report from: 12/11/2020 12:59 PM

APTIM

570-44780 Chain of Custody

revised

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR ~~034~~ 035 AE 4/30/20

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: *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

	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)			
1	PE-ASB111620-B606UPWIND	CX133374	11/16/20	6:57	G	A	1	PCM			X			2.00	2.11			
2	PE-ASB111620-12ADOWNWIND	CX133362	11/16/20	7:12	G	A	1	PCM			X			2.00	1.83			
3	PE-ASB111720-B606UPWIND	CX133389	11/17/20	7:35	G	A	1	PCM			X			2.00	0.31			
4	PE-ASB111720-12ADOWNWIND	CX133340	11/17/20	7:43	G	A	1	PCM			X			2.00	0.41			
5	PE-ASB111820-B606UPWIND	CX133420	11/18/20	7:01	G	A	1	PCM			X			2.00	1.98			
6	PE-ASB111820-12ADOWNWIND	CX133432	11/18/20	7:15	G	A	1	PCM			X			2.00	1.87			
7	PE-ASB111920-B606UPWIND	CX133422	11/19/20	7:05	G	A	1	PCM			X			2.00	2.90			
8	PE-ASB111920-12ADOWNWIND	CX133427	11/19/20	7:22	G	A	1	PCM			X			2.00	2.90			
9	PE-ASB112020-B606UPWIND	CX133428	11/20/20	7:15	G	A	1	PCM			X			2.00	2.71			
10	PE-ASB112020-12ADOWNWIND	CX133430	11/20/20	7:30	G	A	1	PCM			X			2.00	2.70			
11	PE-ASB112120-B606UPWIND	CX133437	11/21/20	7:15	G	A	1	PCM			X			2.00	1.99			
12	PE-ASB112120-12ADOWNWIND	CX133441	11/21/20	7:27	G	A	1	PCM			X			2.00	1.60			
13	PE-ASB112120-BLANK	CX133440	11/21/20	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: Edgar Ruiz	Date: 11/21/20 Time: 1630	Received By: Lock & storage	Date: 11/21/20 Time: 1630
Relinquished By: Lock & Storage	Date: 11/24/20 Time: 08:30	Received By: Edgar Ruiz	Date: 11/24/20 Time: 08:30
Relinquished By: Edgar Ruiz	Date: 11/24/20 Time: 1120	Received By: Mark Valentine EA	Date: 11/24/20 Time: 120
Relinquished By: FedEx to 650	Date: 11/24/20 Time: 1630	Received By: Dannyle ER	Date: 11/25/20 Time: 1100

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 Opening

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR ~~034~~ 035

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)			
PE-TSP111620-B606UPWIND	Q0410123	11/16/20	6:57	G	A	1	8X10 EPM Whatman					X	1104.5	500.3			
PE-TSP111620-12ADOWNWIND	Q0410125	11/16/20	7:12	G	A	1	8X10 EPM Whatman					X	1132.8	484.8			
PE-PM10111620-B606UPWIND	Q0410124	11/16/20	6:57	G	A	1	8X10 EPM Whatman				X		1132.8	513.2			
PE-PM10111620-12ADOWNWIND	Q0410126	11/16/20	7:12	G	A	1	8X10 EPM Whatman				X		1076.2	460.6			
PE-TSP111720-B606UPWIND	Q0410135	11/17/20	7:35	G	A	1	8X10 EPM Whatman					X	1132.8	175.6			
PE-TSP111720-12ADOWNWIND	Q0410137	11/17/20	7:43	G	A	1	8X10 EPM Whatman					X	1132.8	231.1			
PE-PM10111720-B606UPWIND	Q0410136	11/17/20	7:35	G	A	1	8X10 EPM Whatman				X		1132.8	175.6			
PE-PM10111720-12ADOWNWIND	Q0410138	11/17/20	7:43	G	A	1	8X10 EPM Whatman				X		1104.5	225.3			
PE-TSP111820-B606UPWIND	Q0410145	11/18/20	7:01	G	A	1	8X10 EPM Whatman					X	1132.8	1120.3			
PE-TSP111820-12ADOWNWIND	Q0410147	11/18/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.8	1137.3			
PE-PM10111820-B606UPWIND	Q0410146	11/18/20	7:01	G	A	1	8X10 EPM Whatman				X		1132.8	1120.3			
PE-PM10111820-12ADOWNWIND	Q0410152	11/18/20	7:15	G	A	1	8X10 EPM Whatman				X		1104.5	1108.9			
PE-TSP111920-B606UPWIND	Q0410153	11/19/20	7:05	G	A	1	8X10 EPM Whatman					X	1132.8	1285.7			
PE-TSP111920-12ADOWNWIND	Q0410155	11/19/20	7:22	G	A	1	8X10 EPM Whatman					X	1132.8	1277.8			
PE-PM10111920-B606UPWIND	Q0410154	11/19/20	7:05	G	A	1	8X10 EPM Whatman				X		1118.6	1269.7			
PE-PM10111920-12ADOWNWIND	Q0410156	11/19/20	7:22	G	A	1	8X10 EPM Whatman				X		1132.8	1277.8			
PE-TSP112020-B606UPWIND	Q0410165	11/20/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.8	1274.4			
PE-TSP112020-12ADOWNWIND	Q0410167	11/20/20	7:30	G	A	1	8X10 EPM Whatman					X	1132.8	1268.7			
PE-PM10112020-B606UPWIND	Q0410166	11/20/20	7:15	G	A	1	8X10 EPM Whatman				X		1104.5	1242.5			
PE-PM10112020-12ADOWNWIND	Q0410168	11/20/20	7:30	G	A	1	8X10 EPM Whatman				X		1132.8	1268.7			
PE-TSP112120-B606UPWIND	Q0410169	11/21/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.8	1234.8			
PE-TSP112120-12ADOWNWIND	Q0410176	11/21/20	7:27	G	A	1	8X10 EPM Whatman					X	1132.8	1232.5			
PE-PM10112120-B606UPWIND	Q0410170	11/21/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.8	1234.8			
PE-PM10112120-12ADOWNWIND	Q0410177	11/21/20	7:27	G	A	1	8X10 EPM Whatman				X		1132.8	1232.5			

12/15/2020

SAMPLE NO. PE-TSP111820-B606UPWIND 11/18/2020 *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				
Q0410145	40.0	40.0	40.0	11/18/20 07:01	11/18/20 23:30	989	1120.3	TSP	1132.80

SAMPLE NO. PE-TSP111820-12ADOWNWIND 11/18/2020 *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				
Q0410147	40.0	40.0	40.0	11/18/20 07:15	11/18/20 23:59	1004	1137.3	TSP	1132.80

SAMPLE NO. PE-PM10111820-B606UPWIND 11/18/2020 *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				
Q0410146	40.0	40.0	40.0	11/18/20 07:01	11/18/20 23:30	989	1120.3	PM-10	1132.80

SAMPLE NO. PE-PM10111820-12ADOWNWIND 11/18/2020 *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				
Q0410152	39.0	39.0	39.0	11/18/20 07:15	11/18/20 23:59	1004	1108.9	PM-10	1104.48

SAMPLE NO. PE-TSP111920-B606UPWIND 11/19/2020 *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				
Q0410153	40.0	40.0	40.0	11/19/20 07:05	11/20/20 02:00	1135	1285.7	TSP	1132.80

SAMPLE NO. PE-TSP111920-12ADOWNWIND 11/19/2020 *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				
Q0410155	40.0	40.0	40.0	11/19/20 07:22	11/20/20 02:10	1128	1277.8	TSP	1132.80

SAMPLE NO. PE-PM10111920-B606UPWIND 11/19/2020 *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				
Q0410154	39.0	40.0	39.5	11/19/20 07:05	11/20/20 02:00	1135	1269.7	PM-10	1118.64

SAMPLE NO. PE-PM10111920-12ADOWNWIND 11/19/2020 *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				
Q0410156	40.0	40.0	40.0	11/19/20 07:22	11/20/20 02:10	1128	1277.8	PM-10	1132.80

SAMPLE NO. PE-TSP112020-B606UPWIND 11/20/2020 *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				

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

STATION COC# 034-035 AE 11/5/20

SAMPLE NO. PE-TSP111620-B606UPWIND 11/16/2020 *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				
Q0410123	38.0	40.0	39.0	11/16/20 06:57	11/16/20 14:30	453	500.3	TSP	1104.48

SAMPLE NO. PE-TSP111620-12ADOWNWIND 11/16/2020 *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				
Q0410125	40.0	40.0	40.0	11/16/20 07:12	11/16/20 14:20	428	484.8	TSP	1132.80

SAMPLE NO. PE-PM10111620-B606UPWIND 11/16/2020 *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				
Q0410124	40.0	40.0	40.0	11/16/20 06:57	11/16/20 14:30	453	513.2	PM-10	1132.80

SAMPLE NO. PE-PM10111620-12ADOWNWIND 11/16/2020 *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				
Q0410126	38.0	38.0	38.0	11/16/20 07:12	11/16/20 14:20	428	460.6	PM-10	1076.16

SAMPLE NO. PE-TSP111720-B606UPWIND 11/17/2020 *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				
Q0410135	40.0	40.0	40.0	11/17/20 07:35	11/17/20 10:10	155	175.6	TSP	1132.80

SAMPLE NO. PE-TSP111720-12ADOWNWIND 11/17/2020 *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				
Q0410137	40.0	40.0	40.0	11/17/20 07:43	11/17/20 11:07	204	231.1	TSP	1132.80

SAMPLE NO. PE-PM10111720-B606UPWIND 11/17/2020 *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				
Q0410136	40.0	40.0	40.0	11/17/20 07:35	11/17/20 10:10	155	175.6	PM-10	1132.80

SAMPLE NO. PE-PM10111720-12ADOWNWIND 11/17/2020 *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				
Q0410138	39.0	39.0	39.0	11/17/20 07:43	11/17/20 11:07	204	225.3	PM-10	1104.48

Q0410165	40.0	40.0	40.0	11/20/20 07:15	11/21/20 02:00	1125	1274.4	TSP	1132.80

SAMPLE NO. PE-TSP112020-12ADOWNWIND 11/20/2020 *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				
Q0410167	40.0	40.0	40.0	11/20/20 07:30	11/21/20 02:10	1120	1268.7	TSP	1132.80

SAMPLE NO. PE-PM10112020-B606UPWIND 11/20/2020 *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				
Q0410166	38.0	40.0	39.0	11/20/20 07:15	11/21/20 02:00	1125	1242.5	PM-10	1104.48

SAMPLE NO. PE-PM10112020-12ADOWNWIND 11/20/2020 *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				
Q0410168	40.0	40.0	40.0	11/20/20 07:30	11/21/20 02:10	1120	1268.7	PM-10	1132.80

AIR MONITORING LOG

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

STATION COC# 034035 DE 11/20/20

SAMPLE NO. PE-ASB111620-B606UPWIND 11/16/2020 *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				
CX133374	2.000	2.000	2.000	11/16/20 06:57	11/17/20 00:33	1056	2.11	Asbestos	2.00

SAMPLE NO. PE-ASB111620-12ADOWNWIND 11/16/2020 *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				
CX133362	2.000	2.000	2.000	11/16/20 07:12	11/16/20 22:28	916	1.83	Asbestos	2.00

SAMPLE NO. PE-ASB111720-B606UPWIND 11/17/2020 *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				
CX133389	2.000	2.000	2.000	11/17/20 07:35	11/17/20 10:10	155	0.31	Asbestos	2.00

SAMPLE NO. PE-ASB111720-12ADOWNWIND 11/17/2020 *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				
CX133340	2.000	2.000	2.000	11/17/20 07:43	11/17/20 11:07	204	0.41	Asbestos	2.00

SAMPLE NO. PE-ASB111820-B606UPWIND 11/18/2020 *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				
CX133420	2.000	2.000	2.000	11/18/20 07:01	11/18/20 23:29	988	1.98	Asbestos	2.00

SAMPLE NO. PE-ASB111820-12ADOWNWIND 11/18/2020 *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				
CX133432	2.000	2.000	2.000	11/18/20 07:15	11/18/20 22:52	937	1.87	Asbestos	2.00

SAMPLE NO. PE-ASB111920-B606UPWIND 11/19/2020 *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				
CX133422	2.000	2.000	2.000	11/19/20 07:05	11/20/20 07:15	1450	2.90	Asbestos	2.00

SAMPLE NO. PE-ASB111920-12ADOWNWIND 11/19/2020 *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				
CX133427	2.000	2.000	2.000	11/19/20 07:22	11/20/20 07:30	1448	2.90	Asbestos	2.00

44 TOV

SAMPLE NO.	PE-ASB112020-B606UPWIND			11/20/2020 *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				
CX133428	2.000	2.000	2.000	11/20/20 07:15	11/21/20 05:50	1355	2.71	Asbestos	2.00

SAMPLE NO.	PE-ASB112020-12ADOWNWIND			11/20/2020 *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				
CX133430	2.000	2.000	2.0	11/20/20 07:30	11/21/20 06:00	1350	2.70	Asbestos	2.00

SAMPLE NO.	PE-ASB112120-B606UPWIND			11/21/2020 *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				
CX133437	2.000	2.000	2.0	11/21/20 07:15	11/21/20 23:51	996	2.0	Asbestos	2.00

SAMPLE NO.	PE-ASB112120-12ADOWNWIND			11/21/2020 *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				
CX133441	2.000	2.000	2.0	11/21/20 07:27	11/21/20 20:49	802	1.6	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 Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Chang, Terri	Carrier Tracking No(s):	COC No: 570-65963.1
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 #: 570-44780-1
Address: 5431 Industrial Drive, ,	Due Date Requested: 12/11/2020			
City: Huntington Beach	TAT Requested (days):			
State, Zip: CA, 92649				
Phone:	PO #:			
Email:	WO #:			
Project Name: HPNS - Parcel E / 500712	Project #: 570-44780			
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-ASB111620-B606UPWIND (570-44780-1)	11/16/20	06:57 Pacific		Air				1	please provide standard excel EDD.
PE-ASB111620-12ADOWNWIND (570-44780-2)	11/16/20	07:12 Pacific		Air				1	please provide standard excel EDD.
PE-ASB111720-B606UPWIND (570-44780-3)	11/17/20	07:35 Pacific		Air				1	please provide standard excel EDD.
PE-ASB111720-12ADOWNWIND (570-44780-4)	11/17/20	07:43 Pacific		Air				1	please provide standard excel EDD.
PE-ASB111820-B606UPWIND (570-44780-5)	11/18/20	07:01 Pacific		Air				1	please provide standard excel EDD.
PE-ASB111820-12ADOWNWIND (570-44780-6)	11/18/20	07:15 Pacific		Air				1	please provide standard excel EDD.
PE-ASB111920-B606UPWIND (570-44780-7)	11/19/20	07:05 Pacific		Air				1	please provide standard excel EDD.
PE-ASB111920-12ADOWNWIND (570-44780-8)	11/19/20	07:22 Pacific		Air				1	please provide standard excel EDD.
PE-ASB112020-B606UPWIND (570-44780-9)	11/20/20	07:15 Pacific		Air				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]	11/30/2020 1310	EC1	EM(wi)	11-30-20 1:10pm	
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: 570-65963.2
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 #: 570-44780-1
Address: 5431 Industrial Drive,	Due Date Requested: 12/11/2020			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~~ 570-44780			
Site:	SSOW#:			

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:				Analysis Requested		
PE-ASB112020-12ADOWNWIND (570-44780-10)	11/20/20	07:30 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB112120-B606UPWIND (570-44780-11)	11/21/20	07:15 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB112120-12ADOWNWIND (570-44780-12)	11/21/20	07:27 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB112120-BLANK (570-44780-13)	11/21/20	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
	11/30/2020 1310	EG	EM(Wi)	11-30-20 1:10PM	
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

AIR MONITORING LOG

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

STATION COC# 034

SAMPLE NO. PE-ASB111620-B606UPWIND 11/16/2020 *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				
CX133374	2.000	2.000	2.000	11/16/20 06:57	11/17/20 00:33	1056	2.11	Asbestos	2.00

SAMPLE NO. PE-ASB111620-12ADOWNWIND 11/16/2020 *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				
CX133362	2.000	2.000	2.000	11/16/20 07:12	11/16/20 22:28	916	1.83	Asbestos	2.00

SAMPLE NO. PE-ASB111720-B606UPWIND 11/17/2020 *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				
CX133389	2.000	2.000	2.000	11/17/20 07:35	11/17/20 10:10	155	0.31	Asbestos	2.00

SAMPLE NO. PE-ASB111720-12ADOWNWIND 11/17/2020 *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				
CX133340	2.000	2.000	2.000	11/17/20 07:43	11/17/20 11:07	204	0.41	Asbestos	2.00

SAMPLE NO. PE-ASB111820-B606UPWIND 11/18/2020 *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				
CX133420	2.000	2.000	2.000	11/18/20 07:01	11/18/20 23:29	988	1.98	Asbestos	2.00

SAMPLE NO. PE-ASB111820-12ADOWNWIND 11/18/2020 *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				
CX133432	2.000	2.000	2.000	11/18/20 07:15	11/18/20 22:52	937	1.87	Asbestos	2.00

SAMPLE NO. PE-ASB111920-B606UPWIND 11/19/2020 *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				
CX133422	2.000	2.000	2.000	11/19/20 07:05	11/20/20 07:15	1450	2.90	Asbestos	2.00

SAMPLE NO. PE-ASB111920-12ADOWNWIND 11/19/2020 *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				
CX133427	2.000	2.000	2.000	11/19/20 07:22	11/20/20 07:30	1448	2.90	Asbestos	2.00

SAMPLE NO.	PE-ASB112020-B606UPWIND			11/20/2020 *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				
CX133428	2.000	2.000	2.000	11/20/20 07:15	11/21/20 05:50	1355	2.71	Asbestos	2.00

SAMPLE NO.	PE-ASB112020-12ADOWNWIND			11/20/2020 *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				
CX133430	2.000	2.000	2.0	11/20/20 07:30	11/21/20 06:00	1350	2.70	Asbestos	2.00

SAMPLE NO.	PE-ASB112120-B606UPWIND			11/21/2020 *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				
CX133437	2.000	2.000	2.0	11/21/20 07:15	11/21/20 23:51	996	2.0	Asbestos	2.00

SAMPLE NO.	PE-ASB112120-12ADOWNWIND			11/21/2020 *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				
CX133441	2.000	2.000	2.0	11/21/20 07:27	11/21/20 20:49	802	1.6	Asbestos	2.00

44780

GLS

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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 #: 551304400

NPS

GARDEN GROVE

S92841A

31397939

ORC CA927-CL0

Print Date: 11/24/2020 3:28 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.

570-44780 Waybill

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-44780-1

Login Number: 44780

List Source: Eurofins Calscience

List Number: 1

Creator: Le, Danny

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	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 570-45099-1
Client Project/Site: HPNS - Parcel E / 500712
Revision: 1

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

Attn: Rose Condit

Terri Chang

Authorized for release by:
12/29/2020 1:35:59 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: 570-45099-1

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

Job ID: 570-45099-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-45099-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 12/17/2020. The report (revision 1) is being revised to include Asbestos results.

Receipt
The samples were received on 12/2/2020 11:15 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 570-115707 and analytical batch 570-116270 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-TSP112320-B606UPWIND
Date Collected: 11/23/20 07:10
Date Received: 12/02/20 11:15
Sample Container: Folder/Filter

Lab Sample ID: 570-45099-8
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/11/20 18:00	12/14/20 18:52	1
Lead	**4.38**	**J B**	12.0	3.16	ug/Sample		12/11/20 18:00	12/14/20 18:52	1
Manganese	**8.89**		6.00	3.34	ug/Sample		12/11/20 18:00	12/14/20 18:52	1

Client Sample ID: PE-TSP112320-12ADOWNWIND
Date Collected: 11/23/20 07:20
Date Received: 12/02/20 11:15
Sample Container: Folder/Filter

Lab Sample ID: 570-45099-9
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/11/20 18:00	12/14/20 18:54	1
Lead	**10.9**	**J B**	12.0	3.16	ug/Sample		12/11/20 18:00	12/14/20 18:54	1
Manganese	**13.7**		6.00	3.34	ug/Sample		12/11/20 18:00	12/14/20 18:54	1

Client Sample ID: PE-TSP112420-B606UPWIND
Date Collected: 11/24/20 07:49
Date Received: 12/02/20 11:15
Sample Container: Folder/Filter

Lab Sample ID: 570-45099-12
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/11/20 18:00	12/14/20 18:56	1
Lead	**4.14**	**J B**	12.0	3.16	ug/Sample		12/11/20 18:00	12/14/20 18:56	1
Manganese	**7.82**		6.00	3.34	ug/Sample		12/11/20 18:00	12/14/20 18:56	1

Client Sample ID: PE-TSP112420-12ADOWNWIND
Date Collected: 11/24/20 07:56
Date Received: 12/02/20 11:15
Sample Container: Folder/Filter

Lab Sample ID: 570-45099-13
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/11/20 18:00	12/14/20 18:59	1
Lead	**4.27**	**J B**	12.0	3.16	ug/Sample		12/11/20 18:00	12/14/20 18:59	1
Manganese	**8.84**		6.00	3.34	ug/Sample		12/11/20 18:00	12/14/20 18:59	1

Client Sample ID: PE-TSP112520-B606UPWIND
Date Collected: 11/25/20 07:32
Date Received: 12/02/20 11:15
Sample Container: Folder/Filter

Lab Sample ID: 570-45099-16
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/11/20 18:00	12/14/20 19:01	1
Lead	**9.04**	**J B**	12.0	3.16	ug/Sample		12/11/20 18:00	12/14/20 19:01	1
Manganese	**10.5**		6.00	3.34	ug/Sample		12/11/20 18:00	12/14/20 19:01	1

Client Sample ID: PE-TSP112520-12ADOWNWIND
Date Collected: 11/25/20 07:53
Date Received: 12/02/20 11:15
Sample Container: Folder/Filter

Lab Sample ID: 570-45099-17
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/11/20 18:00	12/14/20 19:03	1
Lead	**5.75**	**J B**	12.0	3.16	ug/Sample		12/11/20 18:00	12/14/20 19:03	1
Manganese	**11.5**		6.00	3.34	ug/Sample		12/11/20 18:00	12/14/20 19:03	1

General Chemistry

Client Sample ID: PE-TSP112320-B606UPWIND
Date Collected: 11/23/20 07:10
Date Received: 12/02/20 11:15
Sample Container: Folder/Filter

Lab Sample ID: 570-45099-8
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	15.0		6.02	6.02	ug/m3			12/04/20 11:41	1

Client Sample ID: PE-TSP112320-12ADOWNWIND
Date Collected: 11/23/20 07:20
Date Received: 12/02/20 11:15
Sample Container: Folder/Filter

Lab Sample ID: 570-45099-9
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	30.1		6.02	6.02	ug/m3			12/04/20 11:41	1

Client Sample ID: PE-PM10112320-B606UPWIND
Date Collected: 11/23/20 07:10
Date Received: 12/02/20 11:15
Sample Container: Folder/Filter

Lab Sample ID: 570-45099-10
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	7.00		6.17	6.17	ug/m3			12/04/20 12:18	1

Client Sample ID: PE-PM10112320-12ADOWNWIND
Date Collected: 11/23/20 07:20
Date Received: 12/02/20 11:15
Sample Container: Folder/Filter

Lab Sample ID: 570-45099-11
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	8.83		6.02	6.02	ug/m3			12/04/20 12:18	1

Client Sample ID: PE-TSP112420-B606UPWIND
Date Collected: 11/24/20 07:49
Date Received: 12/02/20 11:15
Sample Container: Folder/Filter

Lab Sample ID: 570-45099-12
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	15.7		6.52	6.52	ug/m3			12/04/20 11:41	1

Client Sample ID: PE-TSP112420-12ADOWNWIND
Date Collected: 11/24/20 07:56
Date Received: 12/02/20 11:15
Sample Container: Folder/Filter

Lab Sample ID: 570-45099-13
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	17.3		6.48	6.48	ug/m3			12/04/20 11:41	1

Client Sample ID: PE-PM10112420-B606UPWIND
Date Collected: 11/24/20 07:49
Date Received: 12/02/20 11:15
Sample Container: Folder/Filter

Lab Sample ID: 570-45099-14
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	18.3		6.52	6.52	ug/m3			12/04/20 12:18	1

Client Sample ID: PE-PM10112420-12ADOWNWIND
Date Collected: 11/24/20 07:56
Date Received: 12/02/20 11:15
Sample Container: Folder/Filter

Lab Sample ID: 570-45099-15
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	13.4		6.48	6.48	ug/m3			12/04/20 12:18	1

General Chemistry

Client Sample ID: PE-TSP112520-B606UPWIND
Date Collected: 11/25/20 07:32
Date Received: 12/02/20 11:15
Sample Container: Folder/Filter

Lab Sample ID: 570-45099-16
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	23.6		5.91	5.91	ug/m3			12/04/20 11:41	1

Client Sample ID: PE-TSP112520-12ADOWNWIND
Date Collected: 11/25/20 07:53
Date Received: 12/02/20 11:15
Sample Container: Folder/Filter

Lab Sample ID: 570-45099-17
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	17.6		5.99	5.99	ug/m3			12/04/20 11:41	1

Client Sample ID: PE-PM10112520-B606UPWIND
Date Collected: 11/25/20 07:32
Date Received: 12/02/20 11:15
Sample Container: Folder/Filter

Lab Sample ID: 570-45099-18
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	8.08		5.91	5.91	ug/m3			12/04/20 12:18	1

Client Sample ID: PE-PM10112520-12ADOWNWIND
Date Collected: 11/25/20 07:53
Date Received: 12/02/20 11:15
Sample Container: Folder/Filter

Lab Sample ID: 570-45099-19
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	7.99		5.99	5.99	ug/m3			12/04/20 12:18	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-115707/1-A
Matrix: Air
Analysis Batch: 116270

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 115707

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		12/11/20 18:00	12/14/20 18:17	1
Lead	5.960	J	12.0	3.16	ug/Sample		12/11/20 18:00	12/14/20 18:17	1
Manganese	ND		6.00	3.34	ug/Sample		12/11/20 18:00	12/14/20 18:17	1

Lab Sample ID: LCS 570-115707/2-A
Matrix: Air
Analysis Batch: 116270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 115707

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	600	543.4		ug/Sample		91	80 - 120
Lead	600	606.2		ug/Sample		101	80 - 120
Manganese	600	586.1		ug/Sample		98	80 - 120

Lab Sample ID: LCSD 570-115707/3-A
Matrix: Air
Analysis Batch: 116270

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 115707

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	600	557.7		ug/Sample		93	80 - 120	3	20
Lead	600	595.6		ug/Sample		99	80 - 120	2	20
Manganese	600	581.4		ug/Sample		97	80 - 120	1	20

Lab Sample ID: 570-45096-A-8-D MS
Matrix: Air
Analysis Batch: 116270

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 115707

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		600	525.7		ug/Sample		88	75 - 125
Lead	14.3	B	600	582.5		ug/Sample		95	75 - 125
Manganese	24.0		600	588.4		ug/Sample		94	75 - 125

Lab Sample ID: 570-45096-A-8-E MSD
Matrix: Air
Analysis Batch: 116270

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 115707

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		600	553.3		ug/Sample		92	75 - 125	5	20
Lead	14.3	B	600	599.0		ug/Sample		97	75 - 125	3	20
Manganese	24.0		600	601.6		ug/Sample		96	75 - 125	2	20

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

Lab Sample ID: MB 570-114442/1-A
Matrix: Air
Analysis Batch: 114445

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		1.04	1.04	ug/m3			12/04/20 11:41	1

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

Lab Sample ID: 570-45096-A-8-B DU
Matrix: Air
Analysis Batch: 114445

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	9.88			9.876		ug/m3				0	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-114451/1
Matrix: Air
Analysis Batch: 114451

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			12/04/20 12:18	1

Lab Sample ID: 570-45096-A-10 DU
Matrix: Air
Analysis Batch: 114451

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	7.68			7.682		ug/m3				0	25

Metals

Prep Batch: 115707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-45099-8	PE-TSP112320-B606UPWIND	Total/NA	Air	3050B	
570-45099-9	PE-TSP112320-12ADOWNWIND	Total/NA	Air	3050B	
570-45099-12	PE-TSP112420-B606UPWIND	Total/NA	Air	3050B	
570-45099-13	PE-TSP112420-12ADOWNWIND	Total/NA	Air	3050B	
570-45099-16	PE-TSP112520-B606UPWIND	Total/NA	Air	3050B	
570-45099-17	PE-TSP112520-12ADOWNWIND	Total/NA	Air	3050B	
MB 570-115707/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-115707/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-115707/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-45096-A-8-D MS	Matrix Spike	Total/NA	Air	3050B	
570-45096-A-8-E MSD	Matrix Spike Duplicate	Total/NA	Air	3050B	

Analysis Batch: 116270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-45099-8	PE-TSP112320-B606UPWIND	Total/NA	Air	6010B	115707
570-45099-9	PE-TSP112320-12ADOWNWIND	Total/NA	Air	6010B	115707
570-45099-12	PE-TSP112420-B606UPWIND	Total/NA	Air	6010B	115707
570-45099-13	PE-TSP112420-12ADOWNWIND	Total/NA	Air	6010B	115707
570-45099-16	PE-TSP112520-B606UPWIND	Total/NA	Air	6010B	115707
570-45099-17	PE-TSP112520-12ADOWNWIND	Total/NA	Air	6010B	115707
MB 570-115707/1-A	Method Blank	Total/NA	Air	6010B	115707
LCS 570-115707/2-A	Lab Control Sample	Total/NA	Air	6010B	115707
LCSD 570-115707/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	115707
570-45096-A-8-D MS	Matrix Spike	Total/NA	Air	6010B	115707
570-45096-A-8-E MSD	Matrix Spike Duplicate	Total/NA	Air	6010B	115707

General Chemistry

Pre Prep Batch: 114442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-45099-8	PE-TSP112320-B606UPWIND	Total/NA	Air	Filter to Air	
570-45099-9	PE-TSP112320-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-45099-12	PE-TSP112420-B606UPWIND	Total/NA	Air	Filter to Air	
570-45099-13	PE-TSP112420-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-45099-16	PE-TSP112520-B606UPWIND	Total/NA	Air	Filter to Air	
570-45099-17	PE-TSP112520-12ADOWNWIND	Total/NA	Air	Filter to Air	
MB 570-114442/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-45096-A-8-B DU	Duplicate	Total/NA	Air	Filter to Air	

Analysis Batch: 114445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-45099-8	PE-TSP112320-B606UPWIND	Total/NA	Air	40CFR50 App B	114442
570-45099-9	PE-TSP112320-12ADOWNWIND	Total/NA	Air	40CFR50 App B	114442
570-45099-12	PE-TSP112420-B606UPWIND	Total/NA	Air	40CFR50 App B	114442
570-45099-13	PE-TSP112420-12ADOWNWIND	Total/NA	Air	40CFR50 App B	114442
570-45099-16	PE-TSP112520-B606UPWIND	Total/NA	Air	40CFR50 App B	114442
570-45099-17	PE-TSP112520-12ADOWNWIND	Total/NA	Air	40CFR50 App B	114442
MB 570-114442/1-A	Method Blank	Total/NA	Air	40CFR50 App B	114442
570-45096-A-8-B DU	Duplicate	Total/NA	Air	40CFR50 App B	114442

QC Association Summary

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

Job ID: 570-45099-1

General Chemistry

Analysis Batch: 114451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-45099-10	PE-PM10112320-B606UPWIND	Total/NA	Air	PM10	
570-45099-11	PE-PM10112320-12ADOWNWIND	Total/NA	Air	PM10	
570-45099-14	PE-PM10112420-B606UPWIND	Total/NA	Air	PM10	
570-45099-15	PE-PM10112420-12ADOWNWIND	Total/NA	Air	PM10	
570-45099-18	PE-PM10112520-B606UPWIND	Total/NA	Air	PM10	
570-45099-19	PE-PM10112520-12ADOWNWIND	Total/NA	Air	PM10	
MB 570-114451/1	Method Blank	Total/NA	Air	PM10	
570-45096-A-10 DU	Duplicate	Total/NA	Air	PM10	

BALANCE CALIBRATION CHECK LOG

Eurofins Calscience

Date performed: 12/04/20 Initials: AH

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	0.9992	0.9990 - 1.0010	(Y) N	
	100	99.9909	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	1.00	0.98 - 1.02	(Y) N	IO Lab
	100	99.97	98.00 - 102.00	(Y) N	
	500	499.93	490.00 - 510.00	(Y) N	
86	1	1.00	0.98 - 1.02	(Y) N	IO Lab
	100	100.00	98.00 - 102.00	(Y) N	
	500	499.99	490.00 - 510.00	(Y) N	
71	0.002	0.0019	0.0015 - 0.0025	(Y) N	BOD Room
	1	0.9997	0.9990 - 1.0010	(Y) N	
	100	99.9880	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	99.98	98.00 - 102.00	(Y) N	
87	0.002	0.0012	0.0015 - 0.0025	(Y) N	Solids Room
	1	0.9990	0.9990 - 1.0010	(Y) N	
	100	99.9893	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 690173	

Lab Chronicle

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

Job ID: 570-45099-1

Client Sample ID: PE-TSP112320-B606UPWIND
Lab Sample ID: 570-45099-8
Date Collected: 11/23/20 07:10
Matrix: Air
Date Received: 12/02/20 11:15

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	115707	12/11/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			116270	12/14/20 18:52	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					114442	12/04/20 11:41	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			114445	12/04/20 11:41	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP112320-12ADOWNWIND
Lab Sample ID: 570-45099-9
Date Collected: 11/23/20 07:20
Matrix: Air
Date Received: 12/02/20 11:15

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	115707	12/11/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			116270	12/14/20 18:54	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					114442	12/04/20 11:41	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			114445	12/04/20 11:41	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10112320-B606UPWIND
Lab Sample ID: 570-45099-10
Date Collected: 11/23/20 07:10
Matrix: Air
Date Received: 12/02/20 11:15

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	4.3520 g	4.3554 g	114451	12/04/20 12:18	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10112320-12ADOWNWIND
Lab Sample ID: 570-45099-11
Date Collected: 11/23/20 07:20
Matrix: Air
Date Received: 12/02/20 11:15

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	4.3603 g	4.3647 g	114451	12/04/20 12:18	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP112420-B606UPWIND
Lab Sample ID: 570-45099-12
Date Collected: 11/24/20 07:49
Matrix: Air
Date Received: 12/02/20 11:15

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	115707	12/11/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			116270	12/14/20 18:56	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					114442	12/04/20 11:41	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			114445	12/04/20 11:41	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP112420-12ADOWNWIND

Lab Sample ID: 570-45099-13
Date Collected: 11/24/20 07:56
Matrix: Air
Date Received: 12/02/20 11:15

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	115707	12/11/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			116270	12/14/20 18:59	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					114442	12/04/20 11:41	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			114445	12/04/20 11:41	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10112420-B606UPWIND

Lab Sample ID: 570-45099-14
Date Collected: 11/24/20 07:49
Matrix: Air
Date Received: 12/02/20 11:15

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	4.3827 g	4.3911 g	114451	12/04/20 12:18	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10112420-12ADOWNWIND

Lab Sample ID: 570-45099-15
Date Collected: 11/24/20 07:56
Matrix: Air
Date Received: 12/02/20 11:15

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	4.3764 g	4.3826 g	114451	12/04/20 12:18	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP112520-B606UPWIND

Lab Sample ID: 570-45099-16
Date Collected: 11/25/20 07:32
Matrix: Air
Date Received: 12/02/20 11:15

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	115707	12/11/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			116270	12/14/20 19:01	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					114442	12/04/20 11:41	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			114445	12/04/20 11:41	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-TSP112520-12ADOWNWIND

Lab Sample ID: 570-45099-17
Date Collected: 11/25/20 07:53
Matrix: Air
Date Received: 12/02/20 11:15

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	115707	12/11/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			116270	12/14/20 19:03	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					114442	12/04/20 11:41	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			114445	12/04/20 11:41	UWCT	ECL 1
	Instrument ID: BAL62									

Lab Chronicle

Client: Aptim Federal Services LLC
Job ID: 570-45099-1
Project/Site: HPNS - Parcel E / 500712

Client Sample ID: PE-PM10112520-B606UPWIND
Lab Sample ID: 570-45099-18
Date Collected: 11/25/20 07:32
Matrix: Air
Date Received: 12/02/20 11:15

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	4.3964 g	4.4005 g	114451	12/04/20 12:18	UWCT	ECL 1
	Instrument ID: BAL62									

Client Sample ID: PE-PM10112520-12ADOWNWIND
Lab Sample ID: 570-45099-19
Date Collected: 11/25/20 07:53
Matrix: Air
Date Received: 12/02/20 11:15

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	4.3894 g	4.3934 g	114451	12/04/20 12:18	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: 570-45099-1

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	11-30-20 *
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: 570-45099-1

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: 570-45099-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-45099-1	PE-ASB112320-B606UPWIND	Air	11/23/20 07:10	12/02/20 11:15	
570-45099-2	PE-ASB112320-12ADOWNWIND	Air	11/23/20 07:20	12/02/20 11:15	
570-45099-3	PE-ASB112420-B606UPWIND	Air	11/24/20 07:49	12/02/20 11:15	
570-45099-4	PE-ASB112420-12ADOWNWIND	Air	11/24/20 07:56	12/02/20 11:15	
570-45099-5	PE-ASB112520-B606UPWIND	Air	11/25/20 07:32	12/02/20 11:15	
570-45099-6	PE-ASB112520-12ADOWNWIND	Air	11/25/20 07:53	12/02/20 11:15	
570-45099-7	PE-ASB112520-BLANK	Air	11/25/20 07:15	12/02/20 11:15	
570-45099-8	PE-TSP112320-B606UPWIND	Air	11/23/20 07:10	12/02/20 11:15	
570-45099-9	PE-TSP112320-12ADOWNWIND	Air	11/23/20 07:20	12/02/20 11:15	
570-45099-10	PE-PM10112320-B606UPWIND	Air	11/23/20 07:10	12/02/20 11:15	
570-45099-11	PE-PM10112320-12ADOWNWIND	Air	11/23/20 07:20	12/02/20 11:15	
570-45099-12	PE-TSP112420-B606UPWIND	Air	11/24/20 07:49	12/02/20 11:15	
570-45099-13	PE-TSP112420-12ADOWNWIND	Air	11/24/20 07:56	12/02/20 11:15	
570-45099-14	PE-PM10112420-B606UPWIND	Air	11/24/20 07:49	12/02/20 11:15	
570-45099-15	PE-PM10112420-12ADOWNWIND	Air	11/24/20 07:56	12/02/20 11:15	
570-45099-16	PE-TSP112520-B606UPWIND	Air	11/25/20 07:32	12/02/20 11:15	
570-45099-17	PE-TSP112520-12ADOWNWIND	Air	11/25/20 07:53	12/02/20 11:15	
570-45099-18	PE-PM10112520-B606UPWIND	Air	11/25/20 07:32	12/02/20 11:15	
570-45099-19	PE-PM10112520-12ADOWNWIND	Air	11/25/20 07:53	12/02/20 11:15	

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: 332021940
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: 12/04/2020 09:45 AM
Analysis Date: 12/15/2020
Collected Date: 11/23/2020 - 11/25/2020

Project: HPNS - Parcel E / 500712 / 570-45099

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-ASB112320-B606UPW IND (570-45099-1) *332021940-0001*		11/23/2020	1700	12.5	100	0.0016	15.9	0.0036	
PE-ASB112320-12ADOW NWIND (570-45099-2) *332021940-0002*		11/23/2020	1510	8	100	0.0018	10.2	0.0026	
PE-ASB112420-B606UPW IND (570-45099-3) *332021940-0003*		11/24/2020	1860	6	100	0.0014	7.64	0.0016	
PE-ASB112420-12ADOW NWIND (570-45099-4) *332021940-0004*		11/24/2020	1540	11	100	0.0018	14.0	0.0035	
PE-ASB112520-B606UPW IND (570-45099-5) *332021940-0005*		11/25/2020	1130	7	100	0.0024	8.92	0.0030	
PE-ASB112520-12ADOW NWIND (570-45099-6) *332021940-0006*		11/25/2020	1300	<5.5	100	0.0021	<7.01	<0.0021	
PE-ASB112520-BLANK (570-45099-7) *332021940-0007*		11/25/2020		<5.5	100		<7.01		Field Blank

The results reported have been blank corrected as applicable.

Analyst(s):
Sotheary Son PCM 7

Michael Chapman, Laboratory Manager
or other Approved Signatory

Initial report from: 12/15/2020 04:50 PM

570-45099 Chain of Custody

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 036

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	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)	Analyses Requested: Flow Rate (L/min.)	Sample Volume (m^3)			
1	PE-ASB112320-B606UPWIND	CX133434	11/23/20	7:10	G	A	1	PCM			X			2.00	1.70			
2	PE-ASB112320-12ADOWNWIND	CX137144	11/23/20	7:20	G	A	1	PCM			X			2.00	1.51			
3	PE-ASB112420-B606UPWIND	CX133445	11/24/20	7:49	G	A	1	PCM			X			2.00	1.86			
4	PE-ASB112420-12ADOWNWIND	CX133444	11/24/20	7:56	G	A	1	PCM			X			2.00	1.54			
5	PE-ASB112520-B606UPWIND	CX133448	11/25/20	7:32	G	A	1	PCM			X			2.00	1.13			
6	PE-ASB112520-12ADOWNWIND	CX133449	11/25/20	7:53	G	A	1	PCM			X			2.00	1.30			
7	PE-ASB112520-BLANK	CX133453	11/25/20	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	11/25/20	1630	Lock & Storage	11/25/20	1630
Lock & Storage	12/01/20	0730	Edgar Ruiz	12/01/20	0730
Edgar Ruiz	12/1/20	1111	Mark Valentin EET	12/1/20	1111
to GSO	12/1/20	1630		12/2/20	11:15

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 Openning

45099

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 036

Page 2 of 2

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

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *8056808279*
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
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: 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)			
8	PE-TSP112320-B606UPWIND	Q0410179	11/23/20	7:10	G	A	1	8X10 EPM Whatman					X	1132.8	498.4			
9	PE-TSP112320-12ADOWNWIND	Q0410182	11/23/20	7:20	G	A	1	8X10 EPM Whatman					X	1132.8	498.4			
10	PE-PM10112320-B606UPWIND	Q0410178	11/23/20	7:10	G	A	1	8X10 EPM Whatman				X		1104.5	486.0			
11	PE-PM10112320-12ADOWNWIND	Q0410181	11/23/20	7:20	G	A	1	8X10 EPM Whatman				X		1132.8	498.4			
12	PE-TSP112420-B606UPWIND	Q0401625	11/24/20	7:49	G	A	1	8X10 EPM Whatman					X	1132.8	459.9			
13	PE-TSP112420-12ADOWNWIND	Q0401627	11/24/20	7:56	G	A	1	8X10 EPM Whatman					X	1132.8	463.3			
14	PE-PM10112420-B606UPWIND	Q0401626	11/24/20	7:49	G	A	1	8X10 EPM Whatman				X		1132.8	459.9			
15	PE-PM10112420-12ADOWNWIND	Q0401628	11/24/20	7:56	G	A	1	8X10 EPM Whatman				X		1132.8	463.3			
16	PE-TSP112520-B606UPWIND	Q0401630	11/25/20	7:32	G	A	1	8X10 EPM Whatman					X	1132.8	507.5			
17	PE-TSP112520-12ADOWNWIND	Q0401632	11/25/20	7:53	G	A	1	8X10 EPM Whatman					X	1132.8	500.7			
18	PE-PM10112520-B606UPWIND	Q0401631	11/25/20	7:32	G	A	1	8X10 EPM Whatman				X		1132.8	507.5			
19	PE-PM10112520-12ADOWNWIND	Q0401633	11/25/20	7:53	G	A	1	8X10 EPM Whatman				X		1132.8	500.7			

AIR MONITORING LOG

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

STATION **COC# 036**

SAMPLE NO. PE-ASB112320-B606UPWIND 11/23/2020 *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				
CX133434	2.000	2.000	2.000	11/23/20 07:10	11/23/20 21:20	850	1.70	Asbestos	2.00

SAMPLE NO. PE-ASB112320-12ADOWNWIND 11/23/2020 *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				
CX137144	2.000	2.000	2.000	11/23/20 07:20	11/23/20 19:53	753	1.51	Asbestos	2.00

SAMPLE NO. PE-ASB112420-B606UPWIND 11/24/2020 *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				
CX133445	2.000	2.000	2.000	11/24/20 07:49	11/24/20 23:18	929	1.86	Asbestos	2.00

SAMPLE NO. PE-ASB112420-12ADOWNWIND 11/24/2020 *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				
CX133444	2.000	2.000	2.000	11/24/20 07:56	11/24/20 20:48	772	1.54	Asbestos	2.00

SAMPLE NO. PE-ASB112520-B606UPWIND 11/25/2020 *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				
CX133448	2.000	2.000	2.000	11/25/20 07:32	11/25/20 16:59	567	1.13	Asbestos	2.00

SAMPLE NO. PE-ASB112520-12ADOWNWIND 11/25/2020 *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				
CX133449	2.000	2.000	2.000	11/25/20 07:53	11/25/20 18:44	651	1.30	Asbestos	2.00

45099

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

STATION COC# 036

SAMPLE NO. PE-TSP112320-B606UPWIND 11/23/2020 *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				
Q0410179	40.0	40.0	40.0	11/23/20 07:10	11/23/20 14:30	440	498.4	TSP	1132.80

SAMPLE NO. PE-TSP112320-12ADOWNWIND 11/23/2020 *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				
Q0410182	40.0	40.0	40.0	11/23/20 07:20	11/23/20 14:40	440	498.4	TSP	1132.80

SAMPLE NO. PE-PM10112320-B606UPWIND 11/23/2020 *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				
Q0410178	39.0	39.0	39.0	11/23/20 07:10	11/23/20 14:30	440	486.0	PM-10	1104.48

SAMPLE NO. PE-PM10112320-12ADOWNWIND 11/23/2020 *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				
Q0410181	40.0	40.0	40.0	11/23/20 07:20	11/23/20 14:40	440	498.4	PM-10	1132.80

SAMPLE NO. PE-TSP112420-B606UPWIND 11/24/2020 *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				
Q0401625	40.0	40.0	40.0	11/24/20 07:49	11/24/20 14:35	406	459.9	TSP	1132.80

SAMPLE NO. PE-TSP112420-12ADOWNWIND 11/24/2020 *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				
Q0401627	40.0	40.0	40.0	11/24/20 07:56	11/24/20 14:45	409	463.3	TSP	1132.80

SAMPLE NO. PE-PM10112420-B606UPWIND 11/24/2020 *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				
Q0401626	40.0	40.0	40.0	11/24/20 07:49	11/24/20 14:35	406	459.9	PM-10	1132.80

SAMPLE NO. PE-PM10112420-12ADOWNWIND 11/24/2020 *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				
Q0401628	40.0	40.0	40.0	11/24/20 07:56	11/24/20 14:45	409	463.3	PM-10	1132.80

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: 570-66901.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Terri.Chang@eurofinset.com	State of Origin: California	Page: Page 1 of 1
Company: EMSL Analytical, Inc.		Accreditations Required (See note):		Job #: 570-45099-1
Address: 5431 Industrial Drive, ,	Due Date Requested: 12/16/2020			
City: Huntington Beach	TAT Requested (days):			
State, Zip: CA, 92649				
Phone:	PO #:			
Email:	WO #:			
Project Name: HPNS - Parcel E / 500712	Project #: ~~57003235~~ 570-45099			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

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:

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-ASB112320-B606UPWIND (570-45099-1)	11/23/20	07:10 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB112320-12ADOWNWIND (570-45099-2)	11/23/20	07:20 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB112420-B606UPWIND (570-45099-3)	11/24/20	07:49 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB112420-12ADOWNWIND (570-45099-4)	11/24/20	07:56 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB112520-B606UPWIND (570-45099-5)	11/25/20	07:32 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB112520-12ADOWNWIND (570-45099-6)	11/25/20	07:53 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB112520-BLANK (570-45099-7)	11/25/20	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
1		12/13/20 1430				
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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

45099

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

GARDEN GROVE

S92841A

31733781

ORC CA927-CL0

Print Date: 12/1/2020 1:10 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.

...ody Seal 12/01/20
Edgar [signature]

eurofins | Environment Testin... TestAmerica
1342983

570-45099 Waybill

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-45099-1

Login Number: 45099
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	