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

Interim

Air Sampling Summary Report No. 10

Data Date Range: November 20, 2019 through
October 31, 2020, Parcel E Remedial Action—Phase 1

Hunters Point Naval Shipyard, CA

December 2020

Approved for public release: distribution unlimited.

DCN: APTM-2005-0024-0082

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Prepared for:
Department of the Navy
Naval Facilities Engineering 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 October 31, 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

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.

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6.0 References

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

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

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

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

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

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

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FIGURE

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

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

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

IR-04 CVOC Plume

Parcel E-2

Prevailing Wind Direction

Access Point to Parcel E-2 (by others)

RCA Control Point (See Note 6)

IR-12A CVOC Plume

IR-12B Benzene Plume

Parcel G

Radiological S3 Screening Area

Mechanical Soil Processing Area

Building 406 (IR-36) CVOC Plume

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

Temporary water line to IR-02 Slurry Wall Mix Plant

PARCEL E

FH

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

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

Potential MPPEH Screening Area

IR-02 NORTHWEST AND CENTRAL TCRA AREA

IR-02 Northwest Nearshore Slurry Wall

Parcel D-1

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

Turbidity Curtain (See Notes 2 and 3)

Radiological S3 Screening Area

Armored Shoreline Revetment and Concrete Seawall

Hybrid Shoreline Stabilization

IR-02 Slurry Wall Mix Plant Area

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

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

Hybrid Shoreline Stabilization

SAN FRANCISCO BAY

Turbidity Curtain (See Notes 2 and 3)

Potential MPPEH Screening Area

METAL DEBRIS REEF TCRA AREA

Armored Shoreline Revetment and Concrete Seawall

N

0 400 800 Feet

Notes:

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

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

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

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

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

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

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

References:

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

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

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

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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

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DCN: APTM-2005-0024-0082

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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

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
°C - degrees Celsius
in Hg - inches of mercury

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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	<0.0241	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	<0.0230	No	0.0652	No

Attachment 1, Table 2: TSP and Metals 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: TSP = 0.5 mg/m^3, arsenic = 10 µg/m^3, lead = 50 µg/m^3, manganese = 200 µg/m^3.
The detection limit for TSP is 0.06 µg/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.
µg/m^3 - microgram per cubic meter
mg/m^3 - milligram per cubic meter
N/A - not applicable
ng/m^3 - nanogram per cubic meter
TSP - total suspended particulates

Attachment 1, Table 3: PM10 Air Sampling Results

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

Attachment 1, Table 3: PM10 Air Sampling Results

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

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 (µg/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 (µg/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

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

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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

Attachment 1, Table 4: Asbestos Sampling Results

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

ATTACHMENT 2
ANALYTICAL LABORATORY REPORTS

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eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 570-40446-1
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:
10/26/2020 9:08:15 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: 570-40446-1

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: 570-40446-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-40446-1

Comments
No additional comments.

Receipt
The samples were received on 10/8/2020 10:30 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-TSP092820-B606UPWIND
Date Collected: 09/28/20 06:52
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40446-12
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.62**	**J**	18.0	6.22	ug/Sample		10/20/20 13:30	10/26/20 10:56	1
Lead	ND		12.0	3.16	ug/Sample		10/20/20 13:30	10/26/20 10:56	1
Manganese	**197**		6.00	3.34	ug/Sample		10/20/20 13:30	10/26/20 10:56	1

Client Sample ID: PE-TSP092820-12ADOWNWIND
Date Collected: 09/28/20 07:00
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40446-13
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/20/20 13:30	10/26/20 11:02	1
Lead	**8.95**	**J B**	12.0	3.16	ug/Sample		10/20/20 13:30	10/26/20 11:02	1
Manganese	**204**		6.00	3.34	ug/Sample		10/20/20 13:30	10/26/20 11:02	1

Client Sample ID: PE-TSP092920-B606UPWIND
Date Collected: 09/29/20 07:05
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40446-16
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/20/20 13:30	10/26/20 11:15	1
Lead	**12.6**	**B**	12.0	3.16	ug/Sample		10/20/20 13:30	10/26/20 11:15	1
Manganese	**28.3**		6.00	3.34	ug/Sample		10/20/20 13:30	10/26/20 11:15	1

Client Sample ID: PE-TSP092920-12ADOWNWIND
Date Collected: 09/29/20 07:18
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40446-17
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/20/20 13:30	10/26/20 11:17	1
Lead	**8.25**	**J B**	12.0	3.16	ug/Sample		10/20/20 13:30	10/26/20 11:17	1
Manganese	**31.3**		6.00	3.34	ug/Sample		10/20/20 13:30	10/26/20 11:17	1

Client Sample ID: PE-TSP093020-B606UPWIND
Date Collected: 09/30/20 06:59
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40446-20
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/20/20 13:30	10/26/20 11:19	1
Lead	**7.03**	**J B**	12.0	3.16	ug/Sample		10/20/20 13:30	10/26/20 11:19	1
Manganese	**26.5**		6.00	3.34	ug/Sample		10/20/20 13:30	10/26/20 11:19	1

Client Sample ID: PE-TSP093020-12ADOWNWIND
Date Collected: 09/30/20 07:08
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40446-21
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/20/20 13:30	10/26/20 11:21	1
Lead	**6.06**	**J B**	12.0	3.16	ug/Sample		10/20/20 13:30	10/26/20 11:21	1
Manganese	**19.5**		6.00	3.34	ug/Sample		10/20/20 13:30	10/26/20 11:21	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP100120-B606UPWIND
Date Collected: 10/01/20 07:17
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40446-24
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/20/20 13:30	10/26/20 11:23	1
Lead	**7.93**	**J B**	12.0	3.16	ug/Sample		10/20/20 13:30	10/26/20 11:23	1
Manganese	**55.6**		6.00	3.34	ug/Sample		10/20/20 13:30	10/26/20 11:23	1

Client Sample ID: PE-TSP100120-12ADOWNWIND
Date Collected: 10/01/20 07:25
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40446-25
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.03**	**J**	18.0	6.22	ug/Sample		10/20/20 13:30	10/26/20 11:25	1
Lead	**5.60**	**J B**	12.0	3.16	ug/Sample		10/20/20 13:30	10/26/20 11:25	1
Manganese	**37.2**		6.00	3.34	ug/Sample		10/20/20 13:30	10/26/20 11:25	1

Client Sample ID: PE-TSP100220-B606UPWIND
Date Collected: 10/02/20 07:03
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40446-28
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/20/20 13:30	10/26/20 11:27	1
Lead	**5.09**	**J B**	12.0	3.16	ug/Sample		10/20/20 13:30	10/26/20 11:27	1
Manganese	**40.8**		6.00	3.34	ug/Sample		10/20/20 13:30	10/26/20 11:27	1

Client Sample ID: PE-TSP100220-12ADOWNWIND
Date Collected: 10/02/20 07:11
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40446-29
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/20/20 13:30	10/26/20 11:29	1
Lead	**5.56**	**J B**	12.0	3.16	ug/Sample		10/20/20 13:30	10/26/20 11:29	1
Manganese	**41.9**		6.00	3.34	ug/Sample		10/20/20 13:30	10/26/20 11:29	1

General Chemistry

Client Sample ID: PE-TSP092820-B606UPWIND — **Lab Sample ID: 570-40446-12**
Date Collected: 09/28/20 06:52 — **Matrix: Air**
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	128		5.78	5.78	ug/m3			10/16/20 16:30	1

Client Sample ID: PE-TSP092820-12ADOWNWIND — **Lab Sample ID: 570-40446-13**
Date Collected: 09/28/20 07:00 — **Matrix: Air**
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	119		5.82	5.82	ug/m3			10/16/20 16:30	1

Client Sample ID: PE_PM10092820-B606UPWIND — **Lab Sample ID: 570-40446-14**
Date Collected: 09/28/20 06:52 — **Matrix: Air**
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	24.1		5.78	5.78	ug/m3			10/16/20 19:00	1

Client Sample ID: PE_PM10092820-12ADOWNWIND — **Lab Sample ID: 570-40446-15**
Date Collected: 09/28/20 07:00 — **Matrix: Air**
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	52.6		5.68	5.68	ug/m3			10/16/20 19:00	1

Client Sample ID: PE-TSP092920-B606UPWIND — **Lab Sample ID: 570-40446-16**
Date Collected: 09/29/20 07:05 — **Matrix: Air**
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	52.6		5.82	5.82	ug/m3			10/16/20 16:30	1

Client Sample ID: PE-TSP092920-12ADOWNWIND — **Lab Sample ID: 570-40446-17**
Date Collected: 09/29/20 07:18 — **Matrix: Air**
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	45.2		6.13	6.13	ug/m3			10/16/20 16:30	1

Client Sample ID: PE_PM10092920-B606UPWIND — **Lab Sample ID: 570-40446-18**
Date Collected: 09/29/20 07:05 — **Matrix: Air**
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	6.40		5.82	5.82	ug/m3			10/16/20 19:00	1

Client Sample ID: PE_PM10092920-12ADOWNWIND — **Lab Sample ID: 570-40446-19**
Date Collected: 09/29/20 07:18 — **Matrix: Air**
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	12.3		6.13	6.13	ug/m3			10/16/20 19:00	1

General Chemistry

Client Sample ID: PE-TSP093020-B606UPWIND — **Lab Sample ID: 570-40446-20**
Date Collected: 09/30/20 06:59 — **Matrix: Air**
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	49.6		5.74	5.74	ug/m3			10/16/20 16:30	1

Client Sample ID: PE-TSP093020-12ADOWNWIND — **Lab Sample ID: 570-40446-21**
Date Collected: 09/30/20 07:08 — **Matrix: Air**
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	38.9		5.99	5.99	ug/m3			10/16/20 16:30	1

Client Sample ID: PE_PM10093020-B606UPWIND — **Lab Sample ID: 570-40446-22**
Date Collected: 09/30/20 06:59 — **Matrix: Air**
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	16.9		5.74	5.74	ug/m3			10/16/20 19:00	1

Client Sample ID: PE_PM10093020-12ADOWNWIND — **Lab Sample ID: 570-40446-23**
Date Collected: 09/30/20 07:08 — **Matrix: Air**
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	12.4		5.99	5.99	ug/m3			10/16/20 19:00	1

Client Sample ID: PE-TSP100120-B606UPWIND — **Lab Sample ID: 570-40446-24**
Date Collected: 10/01/20 07:17 — **Matrix: Air**
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	97.1		5.98	5.98	ug/m3			10/16/20 16:30	1

Client Sample ID: PE-TSP100120-12ADOWNWIND — **Lab Sample ID: 570-40446-25**
Date Collected: 10/01/20 07:25 — **Matrix: Air**
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	81.2		6.39	6.39	ug/m3			10/16/20 16:30	1

Client Sample ID: PE_PM10100120-B606UPWIND — **Lab Sample ID: 570-40446-26**
Date Collected: 10/01/20 07:17 — **Matrix: Air**
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	40.1		5.98	5.98	ug/m3			10/16/20 19:00	1

Client Sample ID: PE_PM10100120-12ADOWNWIND — **Lab Sample ID: 570-40446-27**
Date Collected: 10/01/20 07:25 — **Matrix: Air**
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	69.2		6.39	6.39	ug/m3			10/16/20 19:00	1

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

Job ID: 570-40446-1

General Chemistry

Client Sample ID: PE-TSP100220-B606UPWIND
Lab Sample ID: 570-40446-28
Date Collected: 10/02/20 07:03
Matrix: Air
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	112		5.92	5.92	ug/m3			10/16/20 16:30	1

Client Sample ID: PE-TSP100220-12ADOWNWIND
Lab Sample ID: 570-40446-29
Date Collected: 10/02/20 07:11
Matrix: Air
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	104		6.05	6.05	ug/m3			10/16/20 16:30	1

Client Sample ID: PE_PM10100220-B606UPWIND
Lab Sample ID: 570-40446-30
Date Collected: 10/02/20 07:03
Matrix: Air
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	58.3		5.92	5.92	ug/m3			10/16/20 19:00	1

Client Sample ID: PE_PM10100220-12ADOWNWIND
Lab Sample ID: 570-40446-31
Date Collected: 10/02/20 07:11
Matrix: Air
Date Received: 10/08/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	87.3		5.90	5.90	ug/m3			10/16/20 19:00	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-103195/1-A
Matrix: Air
Analysis Batch: 104668

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103195

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/20/20 13:30	10/26/20 10:49	1
Lead	5.541	J	12.0	3.16	ug/Sample		10/20/20 13:30	10/26/20 10:49	1
Manganese	ND		6.00	3.34	ug/Sample		10/20/20 13:30	10/26/20 10:49	1

Lab Sample ID: LCS 570-103195/2-A
Matrix: Air
Analysis Batch: 104668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103195

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	600	647.6		ug/Sample		108	80 - 120
Lead	600	659.8		ug/Sample		110	80 - 120
Manganese	600	649.6		ug/Sample		108	80 - 120

Lab Sample ID: LCSD 570-103195/3-A
Matrix: Air
Analysis Batch: 104668

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103195

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	600	648.6		ug/Sample		108	80 - 120	0	20
Lead	600	658.0		ug/Sample		110	80 - 120	0	20
Manganese	600	647.0		ug/Sample		108	80 - 120	0	20

Lab Sample ID: 570-40446-12 MS
Matrix: Air
Analysis Batch: 104668

Client Sample ID: PE-TSP092820-B606UPWIND
Prep Type: Total/NA
Prep Batch: 103195

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	6.62	J	600	634.5		ug/Sample		105	75 - 125
Lead	ND		600	662.3		ug/Sample		110	75 - 125
Manganese	197		600	819.3		ug/Sample		104	75 - 125

Lab Sample ID: 570-40446-12 MSD
Matrix: Air
Analysis Batch: 104668

Client Sample ID: PE-TSP092820-B606UPWIND
Prep Type: Total/NA
Prep Batch: 103195

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.62	J	600	604.3		ug/Sample		100	75 - 125	5	20
Lead	ND		600	630.6		ug/Sample		105	75 - 125	5	20
Manganese	197		600	812.5		ug/Sample		102	75 - 125	1	20

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

Lab Sample ID: MB 570-102349/1-A
Matrix: Air
Analysis Batch: 102692

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			10/16/20 16:30	1

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

Lab Sample ID: 570-40465-A-12-B DU
Matrix: Air
Analysis Batch: 102692

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	60.5			60.51		ug/m3				0	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-104072/1
Matrix: Air
Analysis Batch: 104072

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			10/16/20 19:00	1

Lab Sample ID: 570-40446-14 DU
Matrix: Air
Analysis Batch: 104072

Client Sample ID: PE_PM10092820-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	24.1			24.09		ug/m3				0	25

Metals

Prep Batch: 103195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-40446-12	PE-TSP092820-B606UPWIND	Total/NA	Air	3050B	
570-40446-13	PE-TSP092820-12ADOWNWIND	Total/NA	Air	3050B	
570-40446-16	PE-TSP092920-B606UPWIND	Total/NA	Air	3050B	
570-40446-17	PE-TSP092920-12ADOWNWIND	Total/NA	Air	3050B	
570-40446-20	PE-TSP093020-B606UPWIND	Total/NA	Air	3050B	
570-40446-21	PE-TSP093020-12ADOWNWIND	Total/NA	Air	3050B	
570-40446-24	PE-TSP100120-B606UPWIND	Total/NA	Air	3050B	
570-40446-25	PE-TSP100120-12ADOWNWIND	Total/NA	Air	3050B	
570-40446-28	PE-TSP100220-B606UPWIND	Total/NA	Air	3050B	
570-40446-29	PE-TSP100220-12ADOWNWIND	Total/NA	Air	3050B	
MB 570-103195/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-103195/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-103195/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-40446-12 MS	PE-TSP092820-B606UPWIND	Total/NA	Air	3050B	
570-40446-12 MSD	PE-TSP092820-B606UPWIND	Total/NA	Air	3050B	

Analysis Batch: 104668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-40446-12	PE-TSP092820-B606UPWIND	Total/NA	Air	6010B	103195
570-40446-13	PE-TSP092820-12ADOWNWIND	Total/NA	Air	6010B	103195
570-40446-16	PE-TSP092920-B606UPWIND	Total/NA	Air	6010B	103195
570-40446-17	PE-TSP092920-12ADOWNWIND	Total/NA	Air	6010B	103195
570-40446-20	PE-TSP093020-B606UPWIND	Total/NA	Air	6010B	103195
570-40446-21	PE-TSP093020-12ADOWNWIND	Total/NA	Air	6010B	103195
570-40446-24	PE-TSP100120-B606UPWIND	Total/NA	Air	6010B	103195
570-40446-25	PE-TSP100120-12ADOWNWIND	Total/NA	Air	6010B	103195
570-40446-28	PE-TSP100220-B606UPWIND	Total/NA	Air	6010B	103195
570-40446-29	PE-TSP100220-12ADOWNWIND	Total/NA	Air	6010B	103195
MB 570-103195/1-A	Method Blank	Total/NA	Air	6010B	103195
LCS 570-103195/2-A	Lab Control Sample	Total/NA	Air	6010B	103195
LCSD 570-103195/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	103195
570-40446-12 MS	PE-TSP092820-B606UPWIND	Total/NA	Air	6010B	103195
570-40446-12 MSD	PE-TSP092820-B606UPWIND	Total/NA	Air	6010B	103195

General Chemistry

Pre Prep Batch: 102349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-40446-12	PE-TSP092820-B606UPWIND	Total/NA	Air	Filter to Air	
570-40446-13	PE-TSP092820-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-40446-16	PE-TSP092920-B606UPWIND	Total/NA	Air	Filter to Air	
570-40446-17	PE-TSP092920-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-40446-20	PE-TSP093020-B606UPWIND	Total/NA	Air	Filter to Air	
570-40446-21	PE-TSP093020-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-40446-24	PE-TSP100120-B606UPWIND	Total/NA	Air	Filter to Air	
570-40446-25	PE-TSP100120-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-40446-28	PE-TSP100220-B606UPWIND	Total/NA	Air	Filter to Air	
570-40446-29	PE-TSP100220-12ADOWNWIND	Total/NA	Air	Filter to Air	
MB 570-102349/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-40465-A-12-B DU	Duplicate	Total/NA	Air	Filter to Air	

General Chemistry

Analysis Batch: 102692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-40446-12	PE-TSP092820-B606UPWIND	Total/NA	Air	40CFR50 App B	102349
570-40446-13	PE-TSP092820-12ADOWNWIND	Total/NA	Air	40CFR50 App B	102349
570-40446-16	PE-TSP092920-B606UPWIND	Total/NA	Air	40CFR50 App B	102349
570-40446-17	PE-TSP092920-12ADOWNWIND	Total/NA	Air	40CFR50 App B	102349
570-40446-20	PE-TSP093020-B606UPWIND	Total/NA	Air	40CFR50 App B	102349
570-40446-21	PE-TSP093020-12ADOWNWIND	Total/NA	Air	40CFR50 App B	102349
570-40446-24	PE-TSP100120-B606UPWIND	Total/NA	Air	40CFR50 App B	102349
570-40446-25	PE-TSP100120-12ADOWNWIND	Total/NA	Air	40CFR50 App B	102349
570-40446-28	PE-TSP100220-B606UPWIND	Total/NA	Air	40CFR50 App B	102349
570-40446-29	PE-TSP100220-12ADOWNWIND	Total/NA	Air	40CFR50 App B	102349
MB 570-102349/1-A	Method Blank	Total/NA	Air	40CFR50 App B	102349
570-40465-A-12-B DU	Duplicate	Total/NA	Air	40CFR50 App B	102349

Analysis Batch: 104072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-40446-14	PE_PM10092820-B606UPWIND	Total/NA	Air	PM10	
570-40446-15	PE_PM10092820-12ADOWNWIND	Total/NA	Air	PM10	
570-40446-18	PE_PM10092920-B606UPWIND	Total/NA	Air	PM10	
570-40446-19	PE_PM10092920-12ADOWNWIND	Total/NA	Air	PM10	
570-40446-22	PE_PM10093020-B606UPWIND	Total/NA	Air	PM10	
570-40446-23	PE_PM10093020-12ADOWNWIND	Total/NA	Air	PM10	
570-40446-26	PE_PM10100120-B606UPWIND	Total/NA	Air	PM10	
570-40446-27	PE_PM10100120-12ADOWNWIND	Total/NA	Air	PM10	
570-40446-30	PE_PM10100220-B606UPWIND	Total/NA	Air	PM10	
570-40446-31	PE_PM10100220-12ADOWNWIND	Total/NA	Air	PM10	
MB 570-104072/1	Method Blank	Total/NA	Air	PM10	
570-40446-14 DU	PE_PM10092820-B606UPWIND	Total/NA	Air	PM10	

BALANCE CALIBRATION CHECK LOG

Eurofins Calscience

Date performed: 9/16/20 Initials: JARD

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	99.99	98.00 - 102.00	(Y) N	
62	0.002	0.0018	0.0015 - 0.0025	(Y) N	IO Lab
	1	0.9993	0.9990 - 1.0010	(Y) N	
	100	100.0034	99.9000 - 100.1000	(Y) N	
11	1	1.00	0.98 - 1.02	(Y) N	IO Lab
	100	100.00	98.00 - 102.00	(Y) N	
55	1	0.99	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	
86	1	0.99	0.98 - 1.02	(Y) N	IO Lab
	100	100.00	98.00 - 102.00	(Y) N	
	500	500.00	490.00 - 510.00	(Y) N	
71	0.002	0.0022	0.0015 - 0.0025	(Y) N	BOD Room
	1	0.9993	0.9990 - 1.0010	(Y) N	
	100	99.9915	99.9000 - 100.1000	(Y) N	
63	0.1	NOT IN	0.08 - 0.12	(Y) N	BOD Room
	100	USE	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	0.0019	0.0015 - 0.0025	(Y) N	Solids Room
	1	0.9994	0.9990 - 1.0010	(Y) N	
	100	99.9913	99.9000 - 100.1000	(Y) N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

Comments:

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

Client Sample ID: PE-TSP092820-B606UPWIND
Lab Sample ID: 570-40446-12
Date Collected: 09/28/20 06:52
Matrix: Air
Date Received: 10/08/20 10:30

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	103195	10/20/20 13:30	SP7J	ECL 1
Total/NA	Analysis	6010B		1			104668	10/26/20 10:56	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					102349	10/16/20 09:33	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			102692	10/16/20 16:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP092820-12ADOWNWIND
Lab Sample ID: 570-40446-13
Date Collected: 09/28/20 07:00
Matrix: Air
Date Received: 10/08/20 10:30

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	103195	10/20/20 13:30	SP7J	ECL 1
Total/NA	Analysis	6010B		1			104668	10/26/20 11:02	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					102349	10/16/20 09:33	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			102692	10/16/20 16:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10092820-B606UPWIND
Lab Sample ID: 570-40446-14
Date Collected: 09/28/20 06:52
Matrix: Air
Date Received: 10/08/20 10:30

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	4.3168 g	4.3293 g	104072	10/16/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10092820-12ADOWNWIND
Lab Sample ID: 570-40446-15
Date Collected: 09/28/20 07:00
Matrix: Air
Date Received: 10/08/20 10:30

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	4.3441 g	4.3719 g	104072	10/16/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP092920-B606UPWIND
Lab Sample ID: 570-40446-16
Date Collected: 09/29/20 07:05
Matrix: Air
Date Received: 10/08/20 10:30

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	103195	10/20/20 13:30	SP7J	ECL 1
Total/NA	Analysis	6010B		1			104668	10/26/20 11:15	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					102349	10/16/20 09:33	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			102692	10/16/20 16:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-40446-1

Client Sample ID: PE-TSP092920-12ADOWNWIND
Lab Sample ID: 570-40446-17
Date Collected: 09/29/20 07:18
Matrix: Air
Date Received: 10/08/20 10:30

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	103195	10/20/20 13:30	SP7J	ECL 1
Total/NA	Analysis	6010B		1			104668	10/26/20 11:17	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					102349	10/16/20 09:33	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			102692	10/16/20 16:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10092920-B606UPWIND
Lab Sample ID: 570-40446-18
Date Collected: 09/29/20 07:05
Matrix: Air
Date Received: 10/08/20 10:30

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	4.3341 g	4.3374 g	104072	10/16/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10092920-12ADOWNWIND
Lab Sample ID: 570-40446-19
Date Collected: 09/29/20 07:18
Matrix: Air
Date Received: 10/08/20 10:30

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	4.3447 g	4.3507 g	104072	10/16/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP093020-B606UPWIND
Lab Sample ID: 570-40446-20
Date Collected: 09/30/20 06:59
Matrix: Air
Date Received: 10/08/20 10:30

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	103195	10/20/20 13:30	SP7J	ECL 1
Total/NA	Analysis	6010B		1			104668	10/26/20 11:19	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					102349	10/16/20 09:33	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			102692	10/16/20 16:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP093020-12ADOWNWIND
Lab Sample ID: 570-40446-21
Date Collected: 09/30/20 07:08
Matrix: Air
Date Received: 10/08/20 10:30

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	103195	10/20/20 13:30	SP7J	ECL 1
Total/NA	Analysis	6010B		1			104668	10/26/20 11:21	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					102349	10/16/20 09:33	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			102692	10/16/20 16:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-40446-1

Client Sample ID: PE_PM10093020-B606UPWIND
Lab Sample ID: 570-40446-22
Date Collected: 09/30/20 06:59
Matrix: Air
Date Received: 10/08/20 10:30

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	4.3644 g	4.3732 g	104072	10/16/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10093020-12ADOWNWIND
Lab Sample ID: 570-40446-23
Date Collected: 09/30/20 07:08
Matrix: Air
Date Received: 10/08/20 10:30

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	4.3006 g	4.3068 g	104072	10/16/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP100120-B606UPWIND
Lab Sample ID: 570-40446-24
Date Collected: 10/01/20 07:17
Matrix: Air
Date Received: 10/08/20 10:30

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	103195	10/20/20 13:30	SP7J	ECL 1
Total/NA	Analysis	6010B		1			104668	10/26/20 11:23	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					102349	10/16/20 09:33	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			102692	10/16/20 16:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP100120-12ADOWNWIND
Lab Sample ID: 570-40446-25
Date Collected: 10/01/20 07:25
Matrix: Air
Date Received: 10/08/20 10:30

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	103195	10/20/20 13:30	SP7J	ECL 1
Total/NA	Analysis	6010B		1			104668	10/26/20 11:25	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					102349	10/16/20 09:33	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			102692	10/16/20 16:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10100120-B606UPWIND
Lab Sample ID: 570-40446-26
Date Collected: 10/01/20 07:17
Matrix: Air
Date Received: 10/08/20 10:30

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	4.3159 g	4.3360 g	104072	10/16/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10100120-12ADOWNWIND
Lab Sample ID: 570-40446-27
Date Collected: 10/01/20 07:25
Matrix: Air
Date Received: 10/08/20 10:30

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	4.3636 g	4.3961 g	104072	10/16/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP100220-B606UPWIND
Lab Sample ID: 570-40446-28
Date Collected: 10/02/20 07:03
Matrix: Air
Date Received: 10/08/20 10:30

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	103195	10/20/20 13:30	SP7J	ECL 1
Total/NA	Analysis	6010B		1			104668	10/26/20 11:27	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					102349	10/16/20 09:33	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			102692	10/16/20 16:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP100220-12ADOWNWIND
Lab Sample ID: 570-40446-29
Date Collected: 10/02/20 07:11
Matrix: Air
Date Received: 10/08/20 10:30

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	103195	10/20/20 13:30	SP7J	ECL 1
Total/NA	Analysis	6010B		1			104668	10/26/20 11:29	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					102349	10/16/20 09:33	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			102692	10/16/20 16:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10100220-B606UPWIND
Lab Sample ID: 570-40446-30
Date Collected: 10/02/20 07:03
Matrix: Air
Date Received: 10/08/20 10:30

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	4.4426 g	4.4721 g	104072	10/16/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10100220-12ADOWNWIND
Lab Sample ID: 570-40446-31
Date Collected: 10/02/20 07:11
Matrix: Air
Date Received: 10/08/20 10:30

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	4.4516 g	4.4960 g	104072	10/16/20 19:00	UAPD	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: 570-40446-1

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
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-21
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-21

Method Summary

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

Job ID: 570-40446-1

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: 570-40446-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-40446-1	PE-ASB092820-B606UPWIND	Air	09/28/20 06:52	10/08/20 10:30	
570-40446-2	PE-ASB092820-12ADOWNWIND	Air	09/28/20 07:00	10/08/20 10:30	
570-40446-3	PE-ASB092920-B606UPWIND	Air	09/29/20 07:03	10/08/20 10:30	
570-40446-4	PE-ASB092920-12ADOWNWIND	Air	09/29/20 07:13	10/08/20 10:30	
570-40446-5	PE-ASB093020-B606UPWIND	Air	09/30/20 06:58	10/08/20 10:30	
570-40446-6	PE-ASB093020-12ADOWNWIND	Air	09/30/20 07:08	10/08/20 10:30	
570-40446-7	PE-ASB100120-B606UPWIND	Air	10/01/20 07:04	10/08/20 10:30	
570-40446-8	PE-ASB100120-12ADOWNWIND	Air	10/01/20 07:17	10/08/20 10:30	
570-40446-9	PE-ASB100220-B606UPWIND	Air	10/02/20 07:07	10/08/20 10:30	
570-40446-10	PE-ASB100220-12ADOWNWIND	Air	10/02/20 07:19	10/08/20 10:30	
570-40446-11	PE-ASB100220-BLANK	Air	10/02/20 07:07	10/08/20 10:30	
570-40446-12	PE-TSP092820-B606UPWIND	Air	09/28/20 06:52	10/08/20 10:30	
570-40446-13	PE-TSP092820-12ADOWNWIND	Air	09/28/20 07:00	10/08/20 10:30	
570-40446-14	PE_PM10092820-B606UPWIND	Air	09/28/20 06:52	10/08/20 10:30	
570-40446-15	PE_PM10092820-12ADOWNWIND	Air	09/28/20 07:00	10/08/20 10:30	
570-40446-16	PE-TSP092920-B606UPWIND	Air	09/29/20 07:05	10/08/20 10:30	
570-40446-17	PE-TSP092920-12ADOWNWIND	Air	09/29/20 07:18	10/08/20 10:30	
570-40446-18	PE_PM10092920-B606UPWIND	Air	09/29/20 07:05	10/08/20 10:30	
570-40446-19	PE_PM10092920-12ADOWNWIND	Air	09/29/20 07:18	10/08/20 10:30	
570-40446-20	PE-TSP093020-B606UPWIND	Air	09/30/20 06:59	10/08/20 10:30	
570-40446-21	PE-TSP093020-12ADOWNWIND	Air	09/30/20 07:08	10/08/20 10:30	
570-40446-22	PE_PM10093020-B606UPWIND	Air	09/30/20 06:59	10/08/20 10:30	
570-40446-23	PE_PM10093020-12ADOWNWIND	Air	09/30/20 07:08	10/08/20 10:30	
570-40446-24	PE-TSP100120-B606UPWIND	Air	10/01/20 07:17	10/08/20 10:30	
570-40446-25	PE-TSP100120-12ADOWNWIND	Air	10/01/20 07:25	10/08/20 10:30	
570-40446-26	PE_PM10100120-B606UPWIND	Air	10/01/20 07:17	10/08/20 10:30	
570-40446-27	PE_PM10100120-12ADOWNWIND	Air	10/01/20 07:25	10/08/20 10:30	
570-40446-28	PE-TSP100220-B606UPWIND	Air	10/02/20 07:03	10/08/20 10:30	
570-40446-29	PE-TSP100220-12ADOWNWIND	Air	10/02/20 07:11	10/08/20 10:30	
570-40446-30	PE_PM10100220-B606UPWIND	Air	10/02/20 07:03	10/08/20 10:30	
570-40446-31	PE_PM10100220-12ADOWNWIND	Air	10/02/20 07:11	10/08/20 10:30	

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: 332018308
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: 10/09/2020 09:50 AM
Analysis Date: 10/20/2020
Collected Date: 09/28/2020 - 10/02/2020

Project: HPNS - Parcel E / 500712 / 570-40446

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-ASB092820-B606UPW IND (570-40446-1) *332018308-0001*		09/28/2020	1782	13	100	0.0015	16.6	0.0036	
PE-ASB092820-12ADOW NWIND (570-40446-2) *332018308-0002*		09/28/2020	1782	7.5	100	0.0015	9.55	0.0021	
PE-ASB092920-B606UPW IND (570-40446-3) *332018308-0003*		09/29/2020	2042	6	100	0.0013	7.64	0.0014	
PE-ASB092920-12ADOW NWIND (570-40446-4) *332018308-0004*		09/29/2020	2034	<5.5	100	0.0013	<7.01	<0.0013	
PE-ASB093020-B606UPW IND (570-40446-5) *332018308-0005*		09/30/2020	1970	<5.5	100	0.0014	<7.01	<0.0014	
PE-ASB093020-12ADOW NWIND (570-40446-6) *332018308-0006*		09/30/2020	2004	<5.5	100	0.0013	<7.01	<0.0013	
PE-ASB100120-B606UPW IND (570-40446-7) *332018308-0007*		10/01/2020	1886	<5.5	100	0.0014	<7.01	<0.0014	Sample pulled for 10% duplicate count
PE-ASB100120-12ADOW NWIND (570-40446-8) *332018308-0008*		10/01/2020	1886	<5.5	100	0.0014	<7.01	<0.0014	
PE-ASB100220-B606UPW IND (570-40446-9) *332018308-0009*		10/02/2020	886	<5.5	100	0.0030	<7.01	<0.0030	
PE-ASB100220-12ADOW NWIND (570-40446-10) *332018308-0010*		10/02/2020	882	<5.5	100	0.0031	<7.01	<0.0031	
PE-ASB100220-BLANK (570-40446-11) *332018308-0011*		10/02/2020		<5.5	100		<7.01		Field Blank
PE-ASB100120-B606UPW IND (570-40446-7) DUP *332018308-0012*		10/01/2020	1886	6	100	0.0014	7.64	0.0016	10% duplicate count

The results reported have been blank corrected as applicable.

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

Initial report from: 10/20/2020 01:02 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: 332018308
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: 10/09/2020 09:50 AM
Analysis Date: 10/20/2020
Collected Date: 09/28/2020 - 10/02/2020

Project: HPNS - Parcel E / 500712 / 570-40446

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

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

Analyst(s):
Sotheary Son PCM 12

Michael Chapman, Laboratory Manager
or other Approved Signatory

Initial report from: 10/20/2020 01:02 PM

APTIM

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

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 028

Page 2 of 2

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-TSP092820-B606UPWIND	Q0409857	09/28/20	6:52	G	A	1	8X10 EPM Whatman					X	1132.8	518.8
PE-TSP092820-12ADOWNWIND	Q0409859	09/28/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.8	515.4
PE_PM10092820-B606UPWIND	Q0409858	09/28/20	6:52	G	A	1	8X10 EPM Whatman				X		1132.8	518.8
PE_PM10092820-12ADOWNWIND	Q0409860	09/28/20	7:00	G	A	1	8X10 EPM Whatman				X		1161.1	528.3
PE-TSP092920-B606UPWIND	Q0409865	09/29/20	7:05	G	A	1	8X10 EPM Whatman					X	1132.8	515.4
PE-TSP092920-12ADOWNWIND	Q0409867	09/29/20	7:18	G	A	1	8X10 EPM Whatman					X	1132.8	489.4
PE_PM10092920-B606UPWIND	Q0409866	09/29/20	7:05	G	A	1	8X10 EPM Whatman				X		1132.8	515.4
PE_PM10092920-12ADOWNWIND	Q0409868	09/29/20	7:18	G	A	1	8X10 EPM Whatman				X		1132.8	489.4
PE-TSP093020-B606UPWIND	Q0409873	09/30/20	6:59	G	A	1	8X10 EPM Whatman					X	1132.8	522.2
PE-TSP093020-12ADOWNWIND	Q0409875	09/30/20	7:08	G	A	1	8X10 EPM Whatman					X	1132.8	500.7
PE_PM10093020-B606UPWIND	Q0409874	09/30/20	6:59	G	A	1	8X10 EPM Whatman				X		1132.8	522.2
PE_PM10093020-12ADOWNWIND	Q0409876	09/30/20	7:08	G	A	1	8X10 EPM Whatman				X		1132.8	500.7
PE-TSP100120-B606UPWIND	Q0409881	10/01/20	7:17	G	A	1	8X10 EPM Whatman					X	1132.8	501.8
PE-TSP100120-12ADOWNWIND	Q0409883	10/01/20	7:25	G	A	1	8X10 EPM Whatman					X	1104.5	469.4
PE_~~PM10~~PM10100120-B606UPWIND	Q0409882	10/01/20	7:17	G	A	1	8X10 EPM Whatman				X		1132.8	501.8
PE_PM10100120-12ADOWNWIND	Q0409884	10/01/20	7:25	G	A	1	8X10 EPM Whatman				X		1104.5	469.4
PE-TSP100220-B606UPWIND	Q0411025	ER 10/9/20 10/02/20	7:03	G	A	1	8X10 EPM Whatman					X	1132.8	506.4
PE-TSP100220-12ADOWNWIND	Q0411026 27	10/02/20	7:11	G	A	1	8X10 EPM Whatman					X	1104.5	495.9
PE_PM10100220-B606UPWIND	Q0411027 26	10/02/20	7:03	G	A	1	8X10 EPM Whatman				X		1132.8	506.4
PE_PM10100220-12ADOWNWIND	Q0411028	10/02/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.8	508.6

ER 10/9/20
PM10100120

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 028

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	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-ASB092820-B606UPWIND	CW541166	09/28/20	6:52	G	A	1	PCM			X			2.00	1.78			
2	PE-ASB092820-12ADOWNWIND	CW556190	09/28/20	7:00	G	A	1	PCM			X			2.00	1.78			
3	PE-ASB092920-B606UPWIND	CW556192	09/29/20	7:03	G	A	1	PCM			X			2.00	2.04			
4	PE-ASB092920-12ADOWNWIND	CW556640	09/29/20	7:13	G	A	1	PCM			X			2.00	2.03			
5	PE-ASB093020-B606UPWIND	CW556178	09/30/20	6:58	G	A	1	PCM			X			2.00	1.97			
6	PE-ASB093020-12ADOWNWIND	CW556185	09/30/20	7:08	G	A	1	PCM			X			2.00	2.00			
7	PE-ASB100120-B606UPWIND	CW556194	10/01/20	7:04	G	A	1	PCM			X			2.00	1.89			
8	PE-ASB100120-12ADOWNWIND	CW556344	10/01/20	7:17	G	A	1	PCM			X			2.00	1.89			
9	PE-ASB100220-B606UPWIND	CW556274	10/02/20	7:07	G	A	1	PCM			X			2.00	0.89			
10	PE-ASB100220-12ADOWNWIND	CW558457	10/02/20	7:19	G	A	1	PCM			X			2.00	0.88			
11	PE-ASB100220-BLANK	CW558365	10/02/20	7:07	G	A	1	PCM			X			NA				
	Temperature Blank																	x

Special Instructions:

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	10/02/20 1600	Lock & Storage	10/02/20 1600
Lock & Storage	10/06/20 0800	Edgar Ruiz	10/06/20 0800
Edgar Ruiz	10/06/20 1100	Mark Valentin ECI	10/06/20 1100
[illegible] 70 650	10/6/20 1650	[illegible]	10/8/2020 1030

Method Codes
C = Composite
G = Grab
Matrix Codes
DW = Drinking Water
GW = Ground Water
WW = Waste Water
SL = Sludge
A=Air
SO =Soil

570-40446 Chain of Custody

ABS=Asbestos, PO=Pipe Openning

404446

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 028

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; NIOSH	Flow Rate (L/min.)	Sample Volume (m^3)			
12	PE-TSP092820-B606UPWIND	Q0409857	09/28/20	6:52	G	A	1	8X10 EPM Whatman					X	1132.8	518.8			
13	PE-TSP092820-12ADOWNWIND	Q0409859	09/28/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.8	515.4			
14	PE_PM10092820-B606UPWIND	Q0409858	09/28/20	6:52	G	A	1	8X10 EPM Whatman				X		1132.8	518.8			
15	PE_PM10092820-12ADOWNWIND	Q0409860	09/28/20	7:00	G	A	1	8X10 EPM Whatman				X		1161.1	528.3			
16	PE-TSP092920-B606UPWIND	Q0409865	09/29/20	7:05	G	A	1	8X10 EPM Whatman					X	1132.8	515.4			
17	PE-TSP092920-12ADOWNWIND	Q0409867	09/29/20	7:18	G	A	1	8X10 EPM Whatman					X	1132.8	489.4			
18	PE_PM10092920-B606UPWIND	Q0409866	09/29/20	7:05	G	A	1	8X10 EPM Whatman				X		1132.8	515.4			
19	PE_PM10092920-12ADOWNWIND	Q0409868	09/29/20	7:18	G	A	1	8X10 EPM Whatman				X		1132.8	489.4			
20	PE-TSP093020-B606UPWIND	Q0409873	09/30/20	6:59	G	A	1	8X10 EPM Whatman					X	1132.8	522.2			
21	PE-TSP093020-12ADOWNWIND	Q0409875	09/30/20	7:08	G	A	1	8X10 EPM Whatman					X	1132.8	500.7			
22	PE_PM10093020-B606UPWIND	Q0409874	09/30/20	6:59	G	A	1	8X10 EPM Whatman				X		1132.8	522.2			
23	PE_PM10093020-12ADOWNWIND	Q0409876	09/30/20	7:08	G	A	1	8X10 EPM Whatman				X		1132.8	500.7			
24	PE-TSP100120-B606UPWIND	Q0409881	10/01/20	7:17	G	A	1	8X10 EPM Whatman					X	1132.8	501.8			
25	PE-TSP100120-12ADOWNWIND	Q0409883	10/01/20	7:25	G	A	1	8X10 EPM Whatman					X	1104.5	469.4			
26	PE_PM1010120-B606UPWIND	Q0409882	10/01/20	7:17	G	A	1	8X10 EPM Whatman				X		1132.8	501.8			
27	PE_PM10100120-12ADOWNWIND	Q0409884	10/01/20	7:25	G	A	1	8X10 EPM Whatman				X		1104.5	469.4			
28	PE-TSP100220-B606UPWIND	Q0411025	10/02/20	7:03	G	A	1	8X10 EPM Whatman					X	1132.8	506.4			
29	PE-TSP100220-12ADOWNWIND	Q0411026	10/02/20	7:11	G	A	1	8X10 EPM Whatman					X	1104.5	495.9			
30	PE_PM10100220-B606UPWIND	Q0411027	10/02/20	7:03	G	A	1	8X10 EPM Whatman				X		1132.8	506.4			
31	PE_PM10100220-12ADOWNWIND	Q0411028	10/02/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.8	508.6			

AIR MONITORING LOG

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

STATION COC# 028

SAMPLE NO. PE-ASB092820-B606UPWIND 9/28/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW541166	2.000	2.000	2.000	9/28/20 06:52	9/28/20 21:43	891	1.78	Asbestos	2.00

SAMPLE NO. PE-ASB092820-12ADOWNWIND 9/28/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW556190	2.000	2.000	2.000	9/28/20 07:00	9/28/20 21:51	891	1.78	Asbestos	2.00

SAMPLE NO. PE-ASB092920-B606UPWIND 9/29/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW556192	2.000	2.000	2.000	9/29/20 07:03	9/30/20 00:04	1021	2.04	Asbestos	2.00

SAMPLE NO. PE-ASB092920-12ADOWNWIND 9/29/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW556640	2.000	2.000	2.000	9/29/20 07:13	9/30/20 00:10	1017	2.03	Asbestos	2.00

SAMPLE NO. PE-ASB093020-B606UPWIND 9/30/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW556178	2.000	2.000	2.000	9/30/20 06:58	9/30/20 23:23	985	1.97	Asbestos	2.00

SAMPLE NO. PE-ASB093020-12ADOWNWIND 9/30/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW556185	2.000	2.000	2.000	9/30/20 07:08	9/30/20 23:50	1002	2.00	Asbestos	2.00

SAMPLE NO. PE-ASB100120-B606UPWIND 10/1/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW556194	2.000	2.000	2.000	10/01/20 07:04	10/01/20 22:47	943	1.89	Asbestos	2.00

SAMPLE NO. PE-ASB100120-12ADOWNWIND 10/1/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW556344	2.000	2.000	2.000	10/01/20 07:17	10/01/20 23:00	943	1.89	Asbestos	2.00

404446

SAMPLE NO.	PE-ASB100220-B606UPWIND			10/2/2020 *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				
CW556274	2.000	2.000	2.000	10/02/20 07:07	10/02/20 14:30	443	0.89	Asbestos	2.00

SAMPLE NO.	PE-ASB100220-12ADOWNWIND			10/2/2020 *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				
CW558457	2.000	2.000	2.0	10/02/20 07:19	10/02/20 14:40	441	0.88	Asbestos	2.00

SAMPLE NO.	PE-ASB100220-BLANK			10/2/2020 *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				
CW558365				10/02/20 07:07			0.0	Asbestos	

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

STATION COC# 028

SAMPLE NO. PE-TSP092820-B606UPWIND 9/28/2020 *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				
Q0409857	40.0	40.0	40.0	9/28/20 06:52	9/28/20 14:30	458	518.8	TSP	1132.80

SAMPLE NO. PE-TSP092820-12ADOWNWIND 9/28/2020 *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				
Q0409859	40.0	40.0	40.0	9/28/20 07:00	9/28/20 14:35	455	515.4	TSP	1132.80

SAMPLE NO. PE_PM10092820-B606UPWIND 9/28/2020 *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				
Q0409858	40.0	40.0	40.0	9/28/20 06:52	9/28/20 14:30	458	518.8	PM-10	1132.80

SAMPLE NO. PE_PM10092820-12ADOWNWIND 9/28/2020 *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				
Q0409860	41.0	41.0	41.0	9/28/20 07:00	9/28/20 14:35	455	528.3	PM-10	1161.12

SAMPLE NO. PE-TSP092920-B606UPWIND 9/29/2020 *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				
Q0409865	40.0	40.0	40.0	9/29/20 07:05	9/29/20 14:40	455	515.4	TSP	1132.80

SAMPLE NO. PE-TSP092920-12ADOWNWIND 9/29/2020 *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				
Q0409867	40.0	40.0	40.0	9/29/20 07:18	9/29/20 14:30	432	489.4	TSP	1132.80

SAMPLE NO. PE_PM10092920-B606UPWIND 9/29/2020 *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				
Q0409866	40.0	40.0	40.0	9/29/20 07:05	9/29/20 14:40	455	515.4	PM-10	1132.80

SAMPLE NO. PE_PM10092920-12ADOWNWIND 9/29/2020 *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				

Q0409868	40.0	40.0	40.0	9/29/20 07:18	9/29/20 14:30	432	489.4	PM-10	1132.80

SAMPLE NO. **PE-TSP093020-B606UPWIND** 9/30/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409873	40.0	40.0	40.0	9/30/20 06:59	9/30/20 14:40	461	522.2	TSP	1132.80

SAMPLE NO. **PE-TSP093020-12ADOWNWIND** 9/30/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409875	40.0	40.0	40.0	9/30/20 07:08	9/30/20 14:30	442	500.7	TSP	1132.80

SAMPLE NO. **PE_PM10093020-B606UPWIND** 9/30/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409874	40.0	40.0	40.0	9/30/20 06:59	9/30/20 14:40	461	522.2	PM-10	1132.80

SAMPLE NO. **PE_PM10093020-12ADOWNWIND** 9/30/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409876	40.0	40.0	40.0	9/30/20 07:08	9/30/20 14:30	442	500.7	PM-10	1132.80

SAMPLE NO. **PE-TSP100120-B606UPWIND** 10/1/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409881	40.0	40.0	40.0	10/01/20 07:17	10/01/20 14:40	443	501.8	TSP	1132.80

SAMPLE NO. **PE-TSP100120-12ADOWNWIND** 10/1/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409883	39.0	39.0	39.0	10/01/20 07:25	10/01/20 14:30	425	469.4	TSP	1104.48

SAMPLE NO. **PE_PM1010120-B606UPWIND** 10/1/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409882	40.0	40.0	40.0	10/01/20 07:17	10/01/20 14:40	443	501.8	PM-10	1132.80

SAMPLE NO. **PE_PM10100120-12ADOWNWIND** 10/1/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409884	39.0	39.0	39.0	10/01/20 07:25	10/01/20 14:30	425	469.4	PM-10	1104.48

SAMPLE NO. **PE-TSP100220-B606UPWIND** 10/2/2020 *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				
Q0411025	40.0	40.0	40.0	10/02/20 07:03	10/02/20 14:30	447	506.4	TSP	1132.80

SAMPLE NO. **PE-TSP100220-12ADOWNWIND** 10/2/2020 *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				
Q0411026	39.0	39.0	39.0	10/02/20 07:11	10/02/20 14:40	449	495.9	TSP	1104.48

SAMPLE NO. **PE_PM10100220-B606UPWIND** 10/2/2020 *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				
Q0411027	40.0	40.0	40.0	10/02/20 07:03	10/02/20 14:30	447	506.4	PM-10	1132.80

SAMPLE NO. **PE_PM10100220-12ADOWNWIND** 10/2/2020 *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				
Q0411028	40.0	40.0	40.0	10/02/20 07:11	10/02/20 14:40	449	508.6	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: 570-55710.1
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 #: 570-40446-1
Address: 5431 Industrial Drive, ,	Due Date Requested: 10/21/2020	**Analysis Requested**		**Preservation Codes:**
City: Huntington Beach	TAT Requested (days):			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)
State, Zip: CA, 92649				
Phone:	PO #:			
Email:	WO #:			
Project Name: HPNS - Parcel E / 500712	Project #: ~~57003235~~ 570-40446			Other:
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:						
PE-ASB092820-B606UPWIND (570-40446-1)	9/28/20	06:52 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB092820-12ADOWNWIND (570-40446-2)	9/28/20	07:00 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB092920-B606UPWIND (570-40446-3)	9/29/20	07:03 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB092920-12ADOWNWIND (570-40446-4)	9/29/20	07:13 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB093020-B606UPWIND (570-40446-5)	9/30/20	06:58 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB093020-12ADOWNWIND (570-40446-6)	9/30/20	07:08 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB100120-B606UPWIND (570-40446-7)	10/1/20	07:04 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB100120-12ADOWNWIND (570-40446-8)	10/1/20	07:17 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB100220-B606UPWIND (570-40446-9)	10/2/20	07:07 Pacific		Air			X	1	please provide standard excel EDD.

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

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

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Sortos, C	Date/Time: 10/09/20 9:51	Company: ECS	Received by: Juan W.	Date/Time: 10-9-20 9:51	Company
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: 01/16/2019

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: 570-55710.2
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 #: 570-40446-1
Address: 5431 Industrial Drive,	Due Date Requested: 10/21/2020	Analysis Requested		Preservation Codes:
City: Huntington Beach	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
State, Zip: CA, 92649				
Phone:	PO #:			Other:
Email:	WO #:			
Project Name: HPNS - Parcel E / 500712	Project #: ~~57003235~~ 570-40446			
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:						
PE-ASB100220-12ADOWNWIND (570-40446-10)	10/2/20	07:19 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB100220-BLANK (570-40446-11)	10/2/20	07:07 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	[signature]	10/09/20 9:51		[signature] W	10-9-20 9:51	
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: 01/16/2019

AIR MONITORING LOG

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

STATION COC# 028

SAMPLE NO. PE-ASB092820-B606UPWIND 9/28/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW541166	2.000	2.000	2.000	9/28/20 06:52	9/28/20 21:43	891	1.78	Asbestos	2.00

SAMPLE NO. PE-ASB092820-12ADOWNWIND 9/28/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW556190	2.000	2.000	2.000	9/28/20 07:00	9/28/20 21:51	891	1.78	Asbestos	2.00

SAMPLE NO. PE-ASB092920-B606UPWIND 9/29/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW556192	2.000	2.000	2.000	9/29/20 07:03	9/30/20 00:04	1021	2.04	Asbestos	2.00

SAMPLE NO. PE-ASB092920-12ADOWNWIND 9/29/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW556640	2.000	2.000	2.000	9/29/20 07:13	9/30/20 00:10	1017	2.03	Asbestos	2.00

SAMPLE NO. PE-ASB093020-B606UPWIND 9/30/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW556178	2.000	2.000	2.000	9/30/20 06:58	9/30/20 23:23	985	1.97	Asbestos	2.00

SAMPLE NO. PE-ASB093020-12ADOWNWIND 9/30/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW556185	2.000	2.000	2.000	9/30/20 07:08	9/30/20 23:50	1002	2.00	Asbestos	2.00

SAMPLE NO. PE-ASB100120-B606UPWIND 10/1/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW556194	2.000	2.000	2.000	10/01/20 07:04	10/01/20 22:47	943	1.89	Asbestos	2.00

SAMPLE NO. PE-ASB100120-12ADOWNWIND 10/1/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW556344	2.000	2.000	2.000	10/01/20 07:17	10/01/20 23:00	943	1.89	Asbestos	2.00

4 of 4

SAMPLE NO.	PE-ASB100220-B606UPWIND			10/2/2020 *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				
CW556274	2.000	2.000	2.000	10/02/20 07:07	10/02/20 14:30	443	0.89	Asbestos	2.00

SAMPLE NO.	PE-ASB100220-12ADOWNWIND			10/2/2020 *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				
CW558457	2.000	2.000	2.0	10/02/20 07:19	10/02/20 14:40	441	0.88	Asbestos	2.00

SAMPLE NO.	PE-ASB100220-BLANK			10/2/2020 *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				
CW558365				10/02/20 07:07			0.0	Asbestos	

404442

GLS

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

570-40446 Waybill

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

Tracking #: 550695879

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

28335948

ORC CA927-CL0

Print Date: 10/6/2020 3:11 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: 570-40446-1

Login Number: 40446
List Number: 1
Creator: Ramos, Maribel

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 570-40989-1
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:
10/28/2020 8:38:38 PM

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

Table of Contents

Definitions/Glossary

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

Job ID: 570-40989-1

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: 570-40989-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-40989-1

Comments
No additional comments.

Receipt
The samples were received on 10/14/2020 10:30 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-TSP100520-B606UPWIND
Date Collected: 10/05/20 07:05
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40989-12
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/24/20 11:00	10/27/20 20:50	1
Lead	**6.70**	**J**	12.0	3.16	ug/Sample		10/24/20 11:00	10/27/20 20:50	1
Manganese	**27.6**		6.00	3.34	ug/Sample		10/24/20 11:00	10/27/20 20:50	1

Client Sample ID: PE-TSP100520-12ADOWNWIND
Date Collected: 10/05/20 07:20
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40989-13
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/24/20 11:00	10/27/20 20:52	1
Lead	**5.08**	**J**	12.0	3.16	ug/Sample		10/24/20 11:00	10/27/20 20:52	1
Manganese	**18.1**		6.00	3.34	ug/Sample		10/24/20 11:00	10/27/20 20:52	1

Client Sample ID: PE-TSP100620-B606UPWIND
Date Collected: 10/06/20 07:12
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40989-16
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/24/20 11:00	10/27/20 20:54	1
Lead	**3.96**	**J**	12.0	3.16	ug/Sample		10/24/20 11:00	10/27/20 20:54	1
Manganese	**14.2**		6.00	3.34	ug/Sample		10/24/20 11:00	10/27/20 20:54	1

Client Sample ID: PE-TSP100620-12ADOWNWIND
Date Collected: 10/06/20 07:25
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40989-17
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/24/20 11:00	10/27/20 20:56	1
Lead	**4.20**	**J**	12.0	3.16	ug/Sample		10/24/20 11:00	10/27/20 20:56	1
Manganese	**20.4**		6.00	3.34	ug/Sample		10/24/20 11:00	10/27/20 20:56	1

Client Sample ID: PE-TSP100720-B606UPWIND
Date Collected: 10/07/20 07:36
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40989-20
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/24/20 11:00	10/27/20 21:10	1
Lead	ND		12.0	3.16	ug/Sample		10/24/20 11:00	10/27/20 21:10	1
Manganese	**12.5**		6.00	3.34	ug/Sample		10/24/20 11:00	10/27/20 21:10	1

Client Sample ID: PE-TSP100720-12ADOWNWIND
Date Collected: 10/07/20 08:14
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40989-21
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.94**	**J**	18.0	6.22	ug/Sample		10/24/20 11:00	10/27/20 21:12	1
Lead	**7.51**	**J**	12.0	3.16	ug/Sample		10/24/20 11:00	10/27/20 21:12	1
Manganese	**36.9**		6.00	3.34	ug/Sample		10/24/20 11:00	10/27/20 21:12	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP100820-B606UPWIND
Date Collected: 10/08/20 07:28
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40989-24
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**13.1**	**J**	18.0	6.22	ug/Sample		10/24/20 11:00	10/27/20 21:14	1
Lead	**5.60**	**J**	12.0	3.16	ug/Sample		10/24/20 11:00	10/27/20 21:14	1
Manganese	**15.1**		6.00	3.34	ug/Sample		10/24/20 11:00	10/27/20 21:14	1

Client Sample ID: PE-TSP100820-12ADOWNWIND
Date Collected: 10/08/20 07:43
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40989-25
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/24/20 11:00	10/27/20 21:16	1
Lead	**20.7**		12.0	3.16	ug/Sample		10/24/20 11:00	10/27/20 21:16	1
Manganese	**53.7**		6.00	3.34	ug/Sample		10/24/20 11:00	10/27/20 21:16	1

Client Sample ID: PE-TSP100920-B606UPWIND
Date Collected: 10/09/20 07:08
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40989-28
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**14.4**	**J**	18.0	6.22	ug/Sample		10/24/20 11:00	10/27/20 21:19	1
Lead	ND		12.0	3.16	ug/Sample		10/24/20 11:00	10/27/20 21:19	1
Manganese	**6.38**		6.00	3.34	ug/Sample		10/24/20 11:00	10/27/20 21:19	1

Client Sample ID: PE-TSP100920-12ADOWNWIND
Date Collected: 10/09/20 07:15
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40989-29
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/24/20 11:00	10/27/20 21:21	1
Lead	**6.02**	**J**	12.0	3.16	ug/Sample		10/24/20 11:00	10/27/20 21:21	1
Manganese	**5.17**	**J**	6.00	3.34	ug/Sample		10/24/20 11:00	10/27/20 21:21	1

General Chemistry

Client Sample ID: PE-TSP100520-B606UPWIND
Date Collected: 10/05/20 07:05
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40989-12
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	61.8		5.88	5.88	ug/m3			10/16/20 18:00	1

Client Sample ID: PE-TSP100520-12ADOWNWIND
Date Collected: 10/05/20 07:20
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40989-13
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	45.3		6.02	6.02	ug/m3			10/16/20 18:00	1

Client Sample ID: PE_PM10100520-B606UPWIND
Date Collected: 10/05/20 07:05
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40989-14
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	17.1		5.88	5.88	ug/m3			10/16/20 19:00	1

Client Sample ID: PE_PM10100520-12ADOWNWIND
Date Collected: 10/05/20 07:20
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40989-15
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	21.5		5.87	5.87	ug/m3			10/16/20 19:00	1

Client Sample ID: PE-TSP100620-B606UPWIND
Date Collected: 10/06/20 07:12
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40989-16
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	41.8		5.98	5.98	ug/m3			10/16/20 18:00	1

Client Sample ID: PE-TSP100620-12ADOWNWIND
Date Collected: 10/06/20 07:25
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40989-17
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	46.9		6.09	6.09	ug/m3			10/16/20 18:00	1

Client Sample ID: PE_PM10100620-B606UPWIND
Date Collected: 10/06/20 07:12
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40989-18
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	13.6		5.98	5.98	ug/m3			10/16/20 19:00	1

Client Sample ID: PE_PM10100620-12ADOWNWIND
Date Collected: 10/06/20 07:25
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-40989-19
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	20.5		6.09	6.09	ug/m3			10/16/20 19:00	1

General Chemistry

Client Sample ID: PE-TSP100720-B606UPWIND — **Lab Sample ID: 570-40989-20**
Date Collected: 10/07/20 07:36 — **Matrix: Air**
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	61.1		6.32	6.32	ug/m3			10/16/20 18:00	1

Client Sample ID: PE-TSP100720-12ADOWNWIND — **Lab Sample ID: 570-40989-21**
Date Collected: 10/07/20 08:14 — **Matrix: Air**
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	84.4		6.77	6.77	ug/m3			10/16/20 18:00	1

Client Sample ID: PE_PM10100720-B606UPWIND — **Lab Sample ID: 570-40989-22**
Date Collected: 10/07/20 07:36 — **Matrix: Air**
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	32.9		6.32	6.32	ug/m3			10/16/20 19:00	1

Client Sample ID: PE_PM10100720-12ADOWNWIND — **Lab Sample ID: 570-40989-23**
Date Collected: 10/07/20 08:14 — **Matrix: Air**
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	52.6		6.77	6.77	ug/m3			10/16/20 19:00	1

Client Sample ID: PE-TSP100820-B606UPWIND — **Lab Sample ID: 570-40989-24**
Date Collected: 10/08/20 07:28 — **Matrix: Air**
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	46.7		6.20	6.20	ug/m3			10/16/20 18:00	1

Client Sample ID: PE-TSP100820-12ADOWNWIND — **Lab Sample ID: 570-40989-25**
Date Collected: 10/08/20 07:43 — **Matrix: Air**
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	12.1		0.644	0.644	ug/m3			10/16/20 18:00	1

Client Sample ID: PE_PM10100820-B606UPWIND — **Lab Sample ID: 570-40989-26**
Date Collected: 10/08/20 07:28 — **Matrix: Air**
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	24.6		6.20	6.20	ug/m3			10/16/20 19:00	1

Client Sample ID: PE_PM10100820-12ADOWNWIND — **Lab Sample ID: 570-40989-27**
Date Collected: 10/08/20 07:43 — **Matrix: Air**
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	52.8		6.44	6.44	ug/m3			10/16/20 19:00	1

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

Job ID: 570-40989-1

General Chemistry

Client Sample ID: PE-TSP100920-B606UPWIND
Lab Sample ID: 570-40989-28
Date Collected: 10/09/20 07:08
Matrix: Air
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	**14.3**		5.73	5.73	ug/m3			10/16/20 18:00	1

Client Sample ID: PE-TSP100920-12ADOWNWIND
Lab Sample ID: 570-40989-29
Date Collected: 10/09/20 07:15
Matrix: Air
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	**10.7**		6.04	6.04	ug/m3			10/16/20 18:00	1

Client Sample ID: PE_PM10100920-B606UPWIND
Lab Sample ID: 570-40989-30
Date Collected: 10/09/20 07:08
Matrix: Air
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		5.73	5.73	ug/m3			10/16/20 19:00	1

Client Sample ID: PE_PM10100920-12ADOWNWIND
Lab Sample ID: 570-40989-31
Date Collected: 10/09/20 07:15
Matrix: Air
Date Received: 10/14/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		5.88	5.88	ug/m3			10/16/20 19:00	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-104376/1-A
Matrix: Air
Analysis Batch: 105194

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 104376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/24/20 11:00	10/27/20 20:05	1
Lead	ND		12.0	3.16	ug/Sample		10/24/20 11:00	10/27/20 20:05	1
Manganese	ND		6.00	3.34	ug/Sample		10/24/20 11:00	10/27/20 20:05	1

Lab Sample ID: LCS 570-104376/2-A
Matrix: Air
Analysis Batch: 105194

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	600	602.6		ug/Sample		100	80 - 120
Lead	600	593.7		ug/Sample		99	80 - 120
Manganese	600	596.6		ug/Sample		99	80 - 120

Lab Sample ID: LCSD 570-104376/3-A
Matrix: Air
Analysis Batch: 105194

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 104376

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	600	585.5		ug/Sample		98	80 - 120	3	20
Lead	600	588.0		ug/Sample		98	80 - 120	1	20
Manganese	600	600.5		ug/Sample		100	80 - 120	1	20

Lab Sample ID: 570-40980-A-12-C MS
Matrix: Air
Analysis Batch: 105194

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 104376

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		600	585.3		ug/Sample		98	75 - 125
Lead	7.68	J	600	584.4		ug/Sample		96	75 - 125
Manganese	32.0		600	621.9		ug/Sample		98	75 - 125

Lab Sample ID: 570-40980-A-12-D MSD
Matrix: Air
Analysis Batch: 105194

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 104376

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		600	578.0		ug/Sample		96	75 - 125	1	20
Lead	7.68	J	600	603.3		ug/Sample		99	75 - 125	3	20
Manganese	32.0		600	635.4		ug/Sample		101	75 - 125	2	20

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

Lab Sample ID: MB 570-104062/1-A
Matrix: Air
Analysis Batch: 104068

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			10/16/20 18:00	1

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

Lab Sample ID: 570-40989-12 DU
Matrix: Air
Analysis Batch: 104068

Client Sample ID: PE-TSP100520-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	61.8			61.79		ug/m3				0	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-104072/1
Matrix: Air
Analysis Batch: 104072

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			10/16/20 19:00	1

Lab Sample ID: 570-40446-A-14 DU
Matrix: Air
Analysis Batch: 104072

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	24.1			24.09		ug/m3				0	25

Metals

Prep Batch: 104376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-40989-12	PE-TSP100520-B606UPWIND	Total/NA	Air	3050B	
570-40989-13	PE-TSP100520-12ADOWNWIND	Total/NA	Air	3050B	
570-40989-16	PE-TSP100620-B606UPWIND	Total/NA	Air	3050B	
570-40989-17	PE-TSP100620-12ADOWNWIND	Total/NA	Air	3050B	
570-40989-20	PE-TSP100720-B606UPWIND	Total/NA	Air	3050B	
570-40989-21	PE-TSP100720-12ADOWNWIND	Total/NA	Air	3050B	
570-40989-24	PE-TSP100820-B606UPWIND	Total/NA	Air	3050B	
570-40989-25	PE-TSP100820-12ADOWNWIND	Total/NA	Air	3050B	
570-40989-28	PE-TSP100920-B606UPWIND	Total/NA	Air	3050B	
570-40989-29	PE-TSP100920-12ADOWNWIND	Total/NA	Air	3050B	
MB 570-104376/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-104376/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-104376/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-40980-A-12-C MS	Matrix Spike	Total/NA	Air	3050B	
570-40980-A-12-D MSD	Matrix Spike Duplicate	Total/NA	Air	3050B	

Analysis Batch: 105194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-40989-12	PE-TSP100520-B606UPWIND	Total/NA	Air	6010B	104376
570-40989-13	PE-TSP100520-12ADOWNWIND	Total/NA	Air	6010B	104376
570-40989-16	PE-TSP100620-B606UPWIND	Total/NA	Air	6010B	104376
570-40989-17	PE-TSP100620-12ADOWNWIND	Total/NA	Air	6010B	104376
570-40989-20	PE-TSP100720-B606UPWIND	Total/NA	Air	6010B	104376
570-40989-21	PE-TSP100720-12ADOWNWIND	Total/NA	Air	6010B	104376
570-40989-24	PE-TSP100820-B606UPWIND	Total/NA	Air	6010B	104376
570-40989-25	PE-TSP100820-12ADOWNWIND	Total/NA	Air	6010B	104376
570-40989-28	PE-TSP100920-B606UPWIND	Total/NA	Air	6010B	104376
570-40989-29	PE-TSP100920-12ADOWNWIND	Total/NA	Air	6010B	104376
MB 570-104376/1-A	Method Blank	Total/NA	Air	6010B	104376
LCS 570-104376/2-A	Lab Control Sample	Total/NA	Air	6010B	104376
LCSD 570-104376/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	104376
570-40980-A-12-C MS	Matrix Spike	Total/NA	Air	6010B	104376
570-40980-A-12-D MSD	Matrix Spike Duplicate	Total/NA	Air	6010B	104376

General Chemistry

Pre Prep Batch: 104062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-40989-12	PE-TSP100520-B606UPWIND	Total/NA	Air	Filter to Air	
570-40989-13	PE-TSP100520-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-40989-16	PE-TSP100620-B606UPWIND	Total/NA	Air	Filter to Air	
570-40989-17	PE-TSP100620-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-40989-20	PE-TSP100720-B606UPWIND	Total/NA	Air	Filter to Air	
570-40989-21	PE-TSP100720-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-40989-24	PE-TSP100820-B606UPWIND	Total/NA	Air	Filter to Air	
570-40989-25	PE-TSP100820-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-40989-28	PE-TSP100920-B606UPWIND	Total/NA	Air	Filter to Air	
570-40989-29	PE-TSP100920-12ADOWNWIND	Total/NA	Air	Filter to Air	
MB 570-104062/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-40989-12 DU	PE-TSP100520-B606UPWIND	Total/NA	Air	Filter to Air	

QC Association Summary

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

Job ID: 570-40989-1

General Chemistry

Analysis Batch: 104068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-40989-12	PE-TSP100520-B606UPWIND	Total/NA	Air	40CFR50 App B	104062
570-40989-13	PE-TSP100520-12ADOWNWIND	Total/NA	Air	40CFR50 App B	104062
570-40989-16	PE-TSP100620-B606UPWIND	Total/NA	Air	40CFR50 App B	104062
570-40989-17	PE-TSP100620-12ADOWNWIND	Total/NA	Air	40CFR50 App B	104062
570-40989-20	PE-TSP100720-B606UPWIND	Total/NA	Air	40CFR50 App B	104062
570-40989-21	PE-TSP100720-12ADOWNWIND	Total/NA	Air	40CFR50 App B	104062
570-40989-24	PE-TSP100820-B606UPWIND	Total/NA	Air	40CFR50 App B	104062
570-40989-25	PE-TSP100820-12ADOWNWIND	Total/NA	Air	40CFR50 App B	104062
570-40989-28	PE-TSP100920-B606UPWIND	Total/NA	Air	40CFR50 App B	104062
570-40989-29	PE-TSP100920-12ADOWNWIND	Total/NA	Air	40CFR50 App B	104062
MB 570-104062/1-A	Method Blank	Total/NA	Air	40CFR50 App B	104062
570-40989-12 DU	PE-TSP100520-B606UPWIND	Total/NA	Air	40CFR50 App B	104062

Analysis Batch: 104072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-40989-14	PE_PM10100520-B606UPWIND	Total/NA	Air	PM10	
570-40989-15	PE_PM10100520-12ADOWNWIND	Total/NA	Air	PM10	
570-40989-18	PE_PM10100620-B606UPWIND	Total/NA	Air	PM10	
570-40989-19	PE_PM10100620-12ADOWNWIND	Total/NA	Air	PM10	
570-40989-22	PE_PM10100720-B606UPWIND	Total/NA	Air	PM10	
570-40989-23	PE_PM10100720-12ADOWNWIND	Total/NA	Air	PM10	
570-40989-26	PE_PM10100820-B606UPWIND	Total/NA	Air	PM10	
570-40989-27	PE_PM10100820-12ADOWNWIND	Total/NA	Air	PM10	
570-40989-30	PE_PM10100920-B606UPWIND	Total/NA	Air	PM10	
570-40989-31	PE_PM10100920-12ADOWNWIND	Total/NA	Air	PM10	
MB 570-104072/1	Method Blank	Total/NA	Air	PM10	
570-40446-A-14 DU	Duplicate	Total/NA	Air	PM10	

Client Sample ID: PE-TSP100520-B606UPWIND
Lab Sample ID: 570-40989-12
Date Collected: 10/05/20 07:05
Matrix: Air
Date Received: 10/14/20 10:30

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	104376	10/24/20 11:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			105194	10/27/20 20:50	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					104062	10/16/20 17:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			104068	10/16/20 18:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP100520-12ADOWNWIND
Lab Sample ID: 570-40989-13
Date Collected: 10/05/20 07:20
Matrix: Air
Date Received: 10/14/20 10:30

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	104376	10/24/20 11:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			105194	10/27/20 20:52	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					104062	10/16/20 17:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			104068	10/16/20 18:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10100520-B606UPWIND
Lab Sample ID: 570-40989-14
Date Collected: 10/05/20 07:05
Matrix: Air
Date Received: 10/14/20 10:30

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	4.4299 g	4.4386 g	104072	10/16/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10100520-12ADOWNWIND
Lab Sample ID: 570-40989-15
Date Collected: 10/05/20 07:20
Matrix: Air
Date Received: 10/14/20 10:30

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	4.4491 g	4.4601 g	104072	10/16/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP100620-B606UPWIND
Lab Sample ID: 570-40989-16
Date Collected: 10/06/20 07:12
Matrix: Air
Date Received: 10/14/20 10:30

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	104376	10/24/20 11:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			105194	10/27/20 20:54	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					104062	10/16/20 17:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			104068	10/16/20 18:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-40989-1

Client Sample ID: PE-TSP100620-12ADOWNWIND
Lab Sample ID: 570-40989-17
Date Collected: 10/06/20 07:25
Matrix: Air
Date Received: 10/14/20 10:30

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	104376	10/24/20 11:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			105194	10/27/20 20:56	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					104062	10/16/20 17:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			104068	10/16/20 18:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10100620-B606UPWIND
Lab Sample ID: 570-40989-18
Date Collected: 10/06/20 07:12
Matrix: Air
Date Received: 10/14/20 10:30

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	4.4044 g	4.4112 g	104072	10/16/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10100620-12ADOWNWIND
Lab Sample ID: 570-40989-19
Date Collected: 10/06/20 07:25
Matrix: Air
Date Received: 10/14/20 10:30

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	4.4416 g	4.4517 g	104072	10/16/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP100720-B606UPWIND
Lab Sample ID: 570-40989-20
Date Collected: 10/07/20 07:36
Matrix: Air
Date Received: 10/14/20 10:30

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	104376	10/24/20 11:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			105194	10/27/20 21:10	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					104062	10/16/20 17:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			104068	10/16/20 18:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP100720-12ADOWNWIND
Lab Sample ID: 570-40989-21
Date Collected: 10/07/20 08:14
Matrix: Air
Date Received: 10/14/20 10:30

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	104376	10/24/20 11:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			105194	10/27/20 21:12	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					104062	10/16/20 17:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			104068	10/16/20 18:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-40989-1

Client Sample ID: PE_PM10100720-B606UPWIND
Lab Sample ID: 570-40989-22
Date Collected: 10/07/20 07:36
Matrix: Air
Date Received: 10/14/20 10:30

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	4.4202 g	4.4358 g	104072	10/16/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10100720-12ADOWNWIND
Lab Sample ID: 570-40989-23
Date Collected: 10/07/20 08:14
Matrix: Air
Date Received: 10/14/20 10:30

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	4.3752 g	4.3985 g	104072	10/16/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP100820-B606UPWIND
Lab Sample ID: 570-40989-24
Date Collected: 10/08/20 07:28
Matrix: Air
Date Received: 10/14/20 10:30

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	104376	10/24/20 11:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			105194	10/27/20 21:14	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					104062	10/16/20 17:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			104068	10/16/20 18:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP100820-12ADOWNWIND
Lab Sample ID: 570-40989-25
Date Collected: 10/08/20 07:43
Matrix: Air
Date Received: 10/14/20 10:30

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	104376	10/24/20 11:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			105194	10/27/20 21:16	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					104062	10/16/20 17:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			104068	10/16/20 18:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10100820-B606UPWIND
Lab Sample ID: 570-40989-26
Date Collected: 10/08/20 07:28
Matrix: Air
Date Received: 10/14/20 10:30

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	4.3955 g	4.4074 g	104072	10/16/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-40989-1

Client Sample ID: PE_PM10100820-12ADOWNWIND
Lab Sample ID: 570-40989-27
Date Collected: 10/08/20 07:43
Matrix: Air
Date Received: 10/14/20 10:30

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	4.3903 g	4.4149 g	104072	10/16/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP100920-B606UPWIND
Lab Sample ID: 570-40989-28
Date Collected: 10/09/20 07:08
Matrix: Air
Date Received: 10/14/20 10:30

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	104376	10/24/20 11:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			105194	10/27/20 21:19	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					104062	10/16/20 17:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			104068	10/16/20 18:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP100920-12ADOWNWIND
Lab Sample ID: 570-40989-29
Date Collected: 10/09/20 07:15
Matrix: Air
Date Received: 10/14/20 10:30

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	104376	10/24/20 11:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			105194	10/27/20 21:21	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					104062	10/16/20 17:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			104068	10/16/20 18:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10100920-B606UPWIND
Lab Sample ID: 570-40989-30
Date Collected: 10/09/20 07:08
Matrix: Air
Date Received: 10/14/20 10:30

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	4.3061 g	4.3080 g	104072	10/16/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10100920-12ADOWNWIND
Lab Sample ID: 570-40989-31
Date Collected: 10/09/20 07:15
Matrix: Air
Date Received: 10/14/20 10:30

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	4.3204 g	4.3230 g	104072	10/16/20 19:00	UAPD	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: 570-40989-1

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
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-21
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-21

Method Summary

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

Job ID: 570-40989-1

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: 570-40989-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-40989-1	PE-ASB100520-B606UPWIND	Air	10/05/20 07:05	10/14/20 10:30	
570-40989-2	PE-ASB100520-12ADOWNWIND	Air	10/05/20 07:20	10/14/20 10:30	
570-40989-3	PE-ASB100620-B606UPWIND	Air	10/06/20 07:12	10/14/20 10:30	
570-40989-4	PE-ASB100620-12ADOWNWIND	Air	10/06/20 07:25	10/14/20 10:30	
570-40989-5	PE-ASB100720-B606UPWIND	Air	10/07/20 08:46	10/14/20 10:30	
570-40989-6	PE-ASB100720-12ADOWNWIND	Air	10/07/20 08:58	10/14/20 10:30	
570-40989-7	PE-ASB100820-B606UPWIND	Air	10/08/20 07:28	10/14/20 10:30	
570-40989-8	PE-ASB100820-12ADOWNWIND	Air	10/08/20 07:43	10/14/20 10:30	
570-40989-9	PE-ASB100920-B606UPWIND	Air	10/09/20 07:08	10/14/20 10:30	
570-40989-10	PE-ASB100920-12ADOWNWIND	Air	10/09/20 07:15	10/14/20 10:30	
570-40989-11	PE-ASB100920-BLANK	Air	10/09/20 07:08	10/14/20 10:30	
570-40989-12	PE-TSP100520-B606UPWIND	Air	10/05/20 07:05	10/14/20 10:30	
570-40989-13	PE-TSP100520-12ADOWNWIND	Air	10/05/20 07:20	10/14/20 10:30	
570-40989-14	PE_PM10100520-B606UPWIND	Air	10/05/20 07:05	10/14/20 10:30	
570-40989-15	PE_PM10100520-12ADOWNWIND	Air	10/05/20 07:20	10/14/20 10:30	
570-40989-16	PE-TSP100620-B606UPWIND	Air	10/06/20 07:12	10/14/20 10:30	
570-40989-17	PE-TSP100620-12ADOWNWIND	Air	10/06/20 07:25	10/14/20 10:30	
570-40989-18	PE_PM10100620-B606UPWIND	Air	10/06/20 07:12	10/14/20 10:30	
570-40989-19	PE_PM10100620-12ADOWNWIND	Air	10/06/20 07:25	10/14/20 10:30	
570-40989-20	PE-TSP100720-B606UPWIND	Air	10/07/20 07:36	10/14/20 10:30	
570-40989-21	PE-TSP100720-12ADOWNWIND	Air	10/07/20 08:14	10/14/20 10:30	
570-40989-22	PE_PM10100720-B606UPWIND	Air	10/07/20 07:36	10/14/20 10:30	
570-40989-23	PE_PM10100720-12ADOWNWIND	Air	10/07/20 08:14	10/14/20 10:30	
570-40989-24	PE-TSP100820-B606UPWIND	Air	10/08/20 07:28	10/14/20 10:30	
570-40989-25	PE-TSP100820-12ADOWNWIND	Air	10/08/20 07:43	10/14/20 10:30	
570-40989-26	PE_PM10100820-B606UPWIND	Air	10/08/20 07:28	10/14/20 10:30	
570-40989-27	PE_PM10100820-12ADOWNWIND	Air	10/08/20 07:43	10/14/20 10:30	
570-40989-28	PE-TSP100920-B606UPWIND	Air	10/09/20 07:08	10/14/20 10:30	
570-40989-29	PE-TSP100920-12ADOWNWIND	Air	10/09/20 07:15	10/14/20 10:30	
570-40989-30	PE_PM10100920-B606UPWIND	Air	10/09/20 07:08	10/14/20 10:30	
570-40989-31	PE_PM10100920-12ADOWNWIND	Air	10/09/20 07:15	10/14/20 10:30	

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: 332018594
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: 10/15/2020 02:40 PM
Analysis Date: 10/23/2020
Collected Date: 10/05/2020 - 10/09/2020

Project: HPNS - Parcel E / 500712 / 570-40989

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-ASB100520-B606UPW IND (570-40989-1) *332018594-0001*		10/05/2020	1100	12	100	0.0025	15.3	0.0054	
PE-ASB100520-12ADOW NWIND (570-40989-2) *332018594-0002*		10/05/2020	880	10.5	100	0.0031	13.4	0.0059	
PE-ASB100620-B606UPW IND (570-40989-3) *332018594-0003*		10/06/2020	1090	14	100	0.0025	17.8	0.0063	Sample pulled for 10% Duplicate count.
PE-ASB100620-12ADOW NWIND (570-40989-4) *332018594-0004*		10/06/2020	2028	8	100	0.0013	10.2	0.0019	
PE-ASB100720-B606UPW IND (570-40989-5) *332018594-0005*		10/07/2020	698	<5.5	100	0.0039	<7.01	<0.0039	
PE-ASB100720-12ADOW NWIND (570-40989-6) *332018594-0006*		10/07/2020	1776	<5.5	100	0.0015	<7.01	<0.0015	
PE-ASB100820-B606UPW IND (570-40989-7) *332018594-0007*		10/08/2020	992	<5.5	100	0.0027	<7.01	<0.0027	
PE-ASB100820-12ADOW NWIND (570-40989-8) *332018594-0008*		10/08/2020	1824	9	100	0.0015	11.5	0.0024	
PE-ASB100920-B606UPW IND (570-40989-9) *332018594-0009*		10/09/2020	924	<5.5	100	0.0029	<7.01	<0.0029	
PE-ASB100920-12ADOW NWIND (570-40989-10) *332018594-0010*		10/09/2020	900	<5.5	100	0.0030	<7.01	<0.0030	
PE-ASB100920-BLANK (570-40989-11) *332018594-0011*		10/09/2020		<5.5	100		<7.01		Field Blank
PE-ASB100620-B606UPW IND (570-40989-3)-DUP *332018594-0012*		10/06/2020	1090	11	100	0.0025	14.0	0.0050	10% Duplicate count.

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: 10/23/2020 03:25 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: 332018594
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: 10/15/2020 02:40 PM
Analysis Date: 10/23/2020
Collected Date: 10/05/2020 - 10/09/2020

Project: HPNS - Parcel E / 500712 / 570-40989

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

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

The results reported have been blank corrected as applicable.

Analyst(s):
Tony Salgado PCM 12

Michael Chapman, Laboratory Manager
or other Approved Signatory

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

Initial report from: 10/23/2020 03:25 PM

revised

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 029

Page 1 of 2

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

570-40989 Chain of Custody

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-ASB100520-B606UPWIND	CW558370	10/05/20	7:05	G	A	1	PCM			X			2.00	1.10			
2	PE-ASB100520-12ADOWNWIND	CW558390	10/05/20	7:20	G	A	1	PCM			X			2.00	0.88			
3	PE-ASB100620-B606UPWIND	CW558398	10/06/20	7:12	G	A	1	PCM			X			2.00	1.09			
4	PE-ASB100620-12ADOWNWIND	CW558414	10/06/20	7:25	G	A	1	PCM			X			2.00	2.03			
5	PE-ASB100720-B606UPWIND	CW558379	10/07/20	8:46	G	A	1	PCM			X			2.00	0.70			
6	PE-ASB100720-12ADOWNWIND	CW558466	10/07/20	8:58	G	A	1	PCM			X			2.00	1.78			
7	PE-ASB100820-B606UPWIND	CW558416	10/08/20	7:28	G	A	1	PCM			X			2.00	0.99			
8	PE-ASB100820-12ADOWNWIND	CW558427	10/08/20	7:43	G	A	1	PCM			X			2.00	1.82			
9	PE-ASB100920-B606UPWIND	CW558411	10/09/20	7:08	G	A	1	PCM			X			2.00	0.92			
10	PE-ASB100920-12ADOWNWIND	CW558431	10/09/20	7:15	G	A	1	PCM			X			2.00	0.90			
11	PE-ASB100920-BLANK	CW558422	10/09/20	7:08	G	A	1	PCM			X			NA				
	Temperature Blank																	x

Special Instructions:

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	10/9/20	1600	Lock & storage	10/9/20	1600
Lock & storage	10/13/20	0900	Edgar Ruiz	10/13/20	0900
Edgar Ruiz	10/13/20	0930	Audrey Angel	10/13/20	0930
Audrey Angel	10/13/20	0942		10/13/20	0942

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

Relinquished by X [illegible] 680 10/13/20 1630 10/14/2020 10:30

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 029

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-TSP100520-B606UPWIND	Q0411034	10/05/20	7:05	G	A	1	8X10 EPM Whatman					X	1132.8	509.8			
PE-TSP100520-12ADOWNWIND	Q0411036	10/05/20	7:20	G	A	1	8X10 EPM Whatman					X	1132.8	498.4			
PE_PM10100520-B606UPWIND	Q0411035	10/05/20	7:05	G	A	1	8X10 EPM Whatman				X		1132.8	509.8			
PE_PM10100520-12ADOWNWIND	Q0411037	10/05/20	7:20	G	A	1	8X10 EPM Whatman				X		1161.1	510.9			
PE-TSP100620-B606UPWIND	Q0411042	10/06/20	7:12	G	A	1	8X10 EPM Whatman					X	1132.8	501.8			
PE-TSP100620-12ADOWNWIND	Q0411044	10/06/20	7:25	G	A	1	8X10 EPM Whatman					X	1132.8	492.8			
PE_PM10100620-B606UPWIND	Q0411043	10/06/20	7:12	G	A	1	8X10 EPM Whatman				X		1132.8	501.8			
PE_PM10100620-12ADOWNWIND	Q0411045	10/06/20	7:25	G	A	1	8X10 EPM Whatman				X		1132.8	492.8			
PE-TSP100720-B606UPWIND	Q0411050	10/07/20	7:36	G	A	1	8X10 EPM Whatman					X	1132.8	474.6			
PE-TSP100720-12ADOWNWIND	Q0411052	10/07/20	8:14	G	A	1	8X10 EPM Whatman					X	1132.8	442.9			
PE_PM10100720-B606UPWIND	Q0411051	10/07/20	7:36	G	A	1	8X10 EPM Whatman				X		1132.8	474.6			
PE_PM10100720-12ADOWNWIND	Q0411053	10/07/20	8:14	G	A	1	8X10 EPM Whatman				X		1132.8	442.9			
PE-TSP100820-B606UPWIND	Q0411062	10/08/20	7:28	G	A	1	8X10 EPM Whatman					X	1132.8	483.7			
PE-TSP100820-12ADOWNWIND	Q0411064	10/08/20	7:43	G	A	1	8X10 EPM Whatman					X	1104.5	466.1			
PE_PM10100820-B606UPWIND	Q0411063	10/08/20	7:28	G	A	1	8X10 EPM Whatman				X		1132.8	483.7			
PE_PM10100820-12ADOWNWIND	Q0411065	10/08/20	7:43	G	A	1	8X10 EPM Whatman				X		1104.5	466.1			
PE-TSP100920-B606UPWIND	Q0409101	10/09/20	7:08	G	A	1	8X10 EPM Whatman					X	1132.8	523.4			
PE-TSP100920-12ADOWNWIND	Q0409103	10/09/20	7:15	G	A	1	8X10 EPM Whatman					X	1104.5	497.0			
PE_PM10100920-B606UPWIND	Q0409102	10/09/20	7:08	G	A	1	8X10 EPM Whatman				X		1132.8	523.4			
PE_PM10100920-12ADOWNWIND	Q0409104	10/09/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.8	509.8			

10/28/2020

APTIM

570-40989 Chain of Custody

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 029

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)	Flow Rate (L/min.)	Sample Volume (m^3)			
			Analyses Requested															
1	PE-ASB100520-B606UPWIND	CW558370	10/05/20	7:05	G	A	1	PCM			X			2.00	1.10			
2	PE-ASB100520-12ADOWNWIND	CW558390	10/05/20	7:20	G	A	1	PCM			X			2.00	0.88			
3	PE-ASB100620-B606UPWIND	CW558398	10/06/20	7:12	G	A	1	PCM			X			2.00	1.09			
4	PE-ASB100620-12ADOWNWIND	CW558414	10/06/20	7:25	G	A	1	PCM			X			2.00	2.03			
5	PE-ASB100720-B606UPWIND	CW558379	10/07/20	8:46	G	A	1	PCM			X			2.00	0.70			
6	PE-ASB100720-12ADOWNWIND	CW558466	10/07/20	8:58	G	A	1	PCM			X			2.00	1.78			
7	PE-ASB100820-B606UPWIND	CW558416	10/08/20	7:28	G	A	1	PCM			X			2.00	0.99			
8	PE-ASB100820-12ADOWNWIND	CW558427	10/08/20	7:43	G	A	1	PCM			X			2.00	1.82			
9	PE-ASB100920-B606UPWIND	CW558411	10/09/20	7:08	G	A	1	PCM			X			2.00	0.92			
10	PE-ASB100920-12ADOWNWIND	CW558431	10/09/20	7:15	G	A	1	PCM			X			2.00	0.90			
11	PE-ASB100920-BLANK	CW558422	10/09/20	7:08	G	A	1	PCM			X			NA				
	Temperature Blank																	x

Special Instructions:

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

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

Relinquished By: Edgar Ruiz	Date: 10/9/20 Time: 1600	Received By: Lock & storage	Date: 10/9/20 Time: 1600
Relinquished By: Lock & storage	Date: 10/13/20 Time: 0900	Received By: Edgar Ruiz	Date: 10/13/20 Time: 0900
Relinquished By: Edgar Ruiz	Date: 10/13/20 Time: 0930	Received By: Audrey Angel	Date: 10/13/20 Time: 0930
Relinquished By: Audrey Angel	Date: 10/13/20 Time: 0942	Received By:	Date: 10/13/20 Time: 0942

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

Relinquished by X [illegible] 10/13/20 1630 [illegible] 10/14/2020 10:30

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 029

Page 2 of 2

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

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

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

Sampler's Name(s): ER

	Sample ID Number	Lot No.	Collection Information			Matrix	# of containers	Container Type	Analyses Requested									
			Date	Time	Method				PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOS	Flow Rate (L/min.)	Sample Volume (m^3)			
12	PE-TSP100520-B606UPWIND	Q0411034	10/05/20	7:05	G	A	1	8X10 EPM Whatman					X	1132.8	509.8			
13	PE-TSP100520-12ADOWNWIND	Q0411036	10/05/20	7:20	G	A	1	8X10 EPM Whatman					X	1132.8	498.4			
14	PE_PM10100520-B606UPWIND	Q0411035	10/05/20	7:05	G	A	1	8X10 EPM Whatman				X		1132.8	509.8			
15	PE_PM10100520-12ADOWNWIND	Q0411037	10/05/20	7:20	G	A	1	8X10 EPM Whatman				X		1161.1	510.9			
16	PE-TSP100620-B606UPWIND	Q0411042	10/06/20	7:12	G	A	1	8X10 EPM Whatman					X	1132.8	501.8			
17	PE-TSP100620-12ADOWNWIND	Q0411044	10/06/20	7:25	G	A	1	8X10 EPM Whatman					X	1132.8	492.8			
18	PE_PM10100620-B606UPWIND	Q0411043	10/06/20	7:12	G	A	1	8X10 EPM Whatman				X		1132.8	501.8			
19	PE_PM10100620-12ADOWNWIND	Q0411045	10/06/20	7:25	G	A	1	8X10 EPM Whatman				X		1132.8	492.8			
20	PE-TSP100720-B606UPWIND	Q0411050	10/07/20	7:36	G	A	1	8X10 EPM Whatman					X	1132.8	474.6			
21	PE-TSP100720-12ADOWNWIND	Q0411052	10/07/20	8:14	G	A	1	8X10 EPM Whatman					X	1132.8	442.9			
22	PE_PM10100720-B606UPWIND	Q0411051	10/07/20	7:36	G	A	1	8X10 EPM Whatman				X		1132.8	474.6			
23	PE_PM10100720-12ADOWNWIND	Q0411053	10/07/20	8:14	G	A	1	8X10 EPM Whatman				X		1132.8	442.9			
24	PE-TSP100820-B606UPWIND	Q0411062	10/08/20	7:28	G	A	1	8X10 EPM Whatman					X	1132.8	483.7			
25	PE-TSP100820-12ADOWNWIND	Q0411064	10/08/20	7:43	G	A	1	8X10 EPM Whatman					X	1104.5	466.1			
26	PE_PM1010120-B606UPWIND	Q0411063	10/08/20	7:28	G	A	1	8X10 EPM Whatman				X		1132.8	483.7			
27	PE_PM10100820-12ADOWNWIND	Q0411065	10/08/20	7:43	G	A	1	8X10 EPM Whatman				X		1104.5	466.1			
28	PE-TSP100920-B606UPWIND	Q0409101	10/09/20	7:08	G	A	1	8X10 EPM Whatman					X	1132.8	523.4			
29	PE-TSP100920-12ADOWNWIND	Q0409103	10/09/20	7:15	G	A	1	8X10 EPM Whatman					X	1104.5	497.0			
30	PE_PM10100920-B606UPWIND	Q0409102	10/09/20	7:08	G	A	1	8X10 EPM Whatman				X		1132.8	523.4			
31	PE_PM10100920-12ADOWNWIND	Q0409104	10/09/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.8	509.8			

AIR MONITORING LOG

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

STATION **COC# 029**

SAMPLE NO. PE-ASB100520-B606UPWIND 10/5/2020 *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				
CW558370	2.000	2.000	2.000	10/05/20 07:05	10/05/20 16:15	550	1.10	Asbestos	2.00

SAMPLE NO. PE-ASB100520-12ADOWNWIND 10/5/2020 *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				
CW558390	2.000	2.000	2.000	10/05/20 07:20	10/05/20 14:40	440	0.88	Asbestos	2.00

SAMPLE NO. PE-ASB100620-B606UPWIND 10/6/2020 *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				
CW558398	2.000	2.000	2.000	10/06/20 07:12	10/06/20 16:17	545	1.09	Asbestos	2.00

SAMPLE NO. PE-ASB100620-12ADOWNWIND 10/6/2020 *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				
CW558414	2.000	2.000	2.000	10/06/20 07:25	10/07/20 00:19	1014	2.03	Asbestos	2.00

SAMPLE NO. PE-ASB100720-B606UPWIND 10/7/2020 *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				
CW558379	2.000	2.000	2.000	10/07/20 08:46	10/07/20 14:35	349	0.70	Asbestos	2.00

SAMPLE NO. PE-ASB100720-12ADOWNWIND 10/7/2020 *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				
CW558466	2.000	2.000	2.000	10/07/20 08:58	10/07/20 23:46	888	1.78	Asbestos	2.00

SAMPLE NO. PE-ASB100820-B606UPWIND 10/8/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW558416	2.000	2.000	2.000	10/08/20 07:28	10/08/20 15:44	496	0.99	Asbestos	2.00

SAMPLE NO. PE-ASB100820-12ADOWNWIND 10/8/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW558427	2.000	2.000	2.000	10/08/20 07:43	10/08/20 22:55	912	1.82	Asbestos	2.00

SAMPLE NO.	PE-ASB100920-B606UPWIND			10/9/2020 *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				
CW558411	2.000	2.000	2.000	10/09/20 07:08	10/09/20 14:50	462	0.92	Asbestos	2.00

SAMPLE NO.	PE-ASB100920-12ADOWNWIND			10/9/2020 *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				
CW558431	2.000	2.000	2.0	10/09/20 07:15	10/09/20 14:45	450	0.90	Asbestos	2.00

SAMPLE NO.	PE-ASB100920-BLANK			10/9/2020 *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				
CW558422				10/09/20 07:08			0.0	Asbestos	

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

STATION COC# 029

SAMPLE NO. PE-TSP100520-B606UPWIND 10/5/2020 *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				
Q0411034	40.0	40.0	40.0	10/05/20 07:05	10/05/20 14:35	450	509.8	TSP	1132.80

SAMPLE NO. PE-TSP100520-12ADOWNWIND 10/5/2020 *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				
Q0411036	40.0	40.0	40.0	10/05/20 07:20	10/05/20 14:40	440	498.4	TSP	1132.80

SAMPLE NO. PE_PM10100520-B606UPWIND 10/5/2020 *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				
Q0411035	40.0	40.0	40.0	10/05/20 07:05	10/05/20 14:35	450	509.8	PM-10	1132.80

SAMPLE NO. PE_PM10100520-12ADOWNWIND 10/5/2020 *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				
Q0411037	41.0	41.0	41.0	10/05/20 07:20	10/05/20 14:40	440	510.9	PM-10	1161.12

SAMPLE NO. PE-TSP100620-B606UPWIND 10/6/2020 *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				
Q0411042	40.0	40.0	40.0	10/06/20 07:12	10/06/20 14:35	443	501.8	TSP	1132.80

SAMPLE NO. PE-TSP100620-12ADOWNWIND 10/6/2020 *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				
Q0411044	40.0	40.0	40.0	10/06/20 07:25	10/06/20 14:40	435	492.8	TSP	1132.80

SAMPLE NO. PE_PM10100620-B606UPWIND 10/6/2020 *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				
Q0411043	40.0	40.0	40.0	10/06/20 07:12	10/06/20 14:35	443	501.8	PM-10	1132.80

SAMPLE NO. PE_PM10100620-12ADOWNWIND 10/6/2020 *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				
Q0411045	40.0	40.0	40.0	10/06/20 07:25	10/06/20 14:40	435	492.8	PM-10	1132.80

SAMPLE NO. **PE-TSP100720-B606UPWIND** 10/7/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0411050	40.0	40.0	40.0	10/07/20 07:36	10/07/20 14:35	419	474.6	TSP	1132.80

SAMPLE NO. **PE-TSP100720-12ADOWNWIND** 10/7/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0411052	40.0	40.0	40.0	10/07/20 08:14	10/07/20 14:45	391	442.9	TSP	1132.80

SAMPLE NO. **PE_PM10100720-B606UPWIND** 10/7/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0411051	40.0	40.0	40.0	10/07/20 07:36	10/07/20 14:35	419	474.6	PM-10	1132.80

SAMPLE NO. **PE_PM10100720-12ADOWNWIND** 10/7/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0411053	40.0	40.0	40.0	10/07/20 08:14	10/07/20 14:45	391	442.9	PM-10	1132.80

SAMPLE NO. **PE-TSP100820-B606UPWIND** 10/8/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0411062	40.0	40.0	40.0	10/08/20 07:28	10/08/20 14:35	427	483.7	TSP	1132.80

SAMPLE NO. **PE-TSP100820-12ADOWNWIND** 10/8/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0411064	39.0	39.0	39.0	10/08/20 07:43	10/08/20 14:45	422	466.1	TSP	1104.48

SAMPLE NO. **PE_PM1010120-B606UPWIND** 10/8/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0411063	40.0	40.0	40.0	10/08/20 07:28	10/08/20 14:35	427	483.7	PM-10	1132.80

SAMPLE NO. **PE_PM10100820-12ADOWNWIND** 10/8/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0411065	39.0	39.0	39.0	10/08/20 07:43	10/08/20 14:45	422	466.1	PM-10	1104.48

SAMPLE NO. **PE-TSP100920-B606UPWIND** 10/9/2020 *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				

Q0409101	40.0	40.0	40.0	10/09/20 07:08	10/09/20 14:50	462	523.4	TSP	1132.80

SAMPLE NO. **PE-TSP100920-12ADOWNWIND** 10/9/2020 *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				
Q0409103	39.0	39.0	39.0	10/09/20 07:15	10/09/20 14:45	450	497.0	TSP	1104.48

SAMPLE NO. **PE_PM10100920-B606UPWIND** 10/9/2020 *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				
Q0409102	40.0	40.0	40.0	10/09/20 07:08	10/09/20 14:50	462	523.4	PM-10	1132.80

SAMPLE NO. **PE_PM10100920-12ADOWNWIND** 10/9/2020 *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				
Q0409104	40.0	40.0	40.0	10/09/20 07:15	10/09/20 14:45	450	509.8	PM-10	1132.80

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-40989-1

Login Number: 40989
List Number: 1
Creator: Ramos, Maribel

List Source: Eurofins Calscience

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

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 570-41753-1
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:
11/4/2020 5:54:05 PM

Terri Chang, Project Manager I
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Definitions/Glossary

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

Job ID: 570-41753-1

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: 570-41753-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-41753-1

Comments
No additional comments.

Receipt
The samples were received on 10/21/2020 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
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-TSP101220-B606UPWIND
Date Collected: 10/12/20 07:08
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-41753-12
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/30/20 17:00	11/03/20 20:08	1
Lead	ND		12.0	3.16	ug/Sample		10/30/20 17:00	11/03/20 20:08	1
Manganese	**18.6**		6.00	3.34	ug/Sample		10/30/20 17:00	11/03/20 20:08	1

Client Sample ID: PE-TSP101220-12ADOWNWIND
Date Collected: 10/12/20 07:16
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-41753-13
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/30/20 17:00	11/03/20 20:10	1
Lead	ND		12.0	3.16	ug/Sample		10/30/20 17:00	11/03/20 20:10	1
Manganese	**19.7**		6.00	3.34	ug/Sample		10/30/20 17:00	11/03/20 20:10	1

Client Sample ID: PE-TSP101320-B606UPWIND
Date Collected: 10/13/20 07:01
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-41753-16
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/30/20 17:00	11/03/20 20:13	1
Lead	**10.4**	**J B**	12.0	3.16	ug/Sample		10/30/20 17:00	11/03/20 20:13	1
Manganese	**33.5**		6.00	3.34	ug/Sample		10/30/20 17:00	11/03/20 20:13	1

Client Sample ID: PE-TSP101320-12ADOWNWIND
Date Collected: 10/13/20 07:11
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-41753-17
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/30/20 17:00	11/03/20 20:14	1
Lead	**5.90**	**J B**	12.0	3.16	ug/Sample		10/30/20 17:00	11/03/20 20:14	1
Manganese	**19.6**		6.00	3.34	ug/Sample		10/30/20 17:00	11/03/20 20:14	1

Client Sample ID: PE-TSP101420-B606UPWIND
Date Collected: 10/14/20 07:04
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-41753-20
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/30/20 17:00	11/03/20 20:17	1
Lead	**5.72**	**J B**	12.0	3.16	ug/Sample		10/30/20 17:00	11/03/20 20:17	1
Manganese	**30.9**		6.00	3.34	ug/Sample		10/30/20 17:00	11/03/20 20:17	1

Client Sample ID: PE-TSP101420-12ADOWNWIND
Date Collected: 10/14/20 07:15
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-41753-21
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/30/20 17:00	11/03/20 20:19	1
Lead	**9.17**	**J B**	12.0	3.16	ug/Sample		10/30/20 17:00	11/03/20 20:19	1
Manganese	**25.9**		6.00	3.34	ug/Sample		10/30/20 17:00	11/03/20 20:19	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP101520-B606UPWIND
Date Collected: 10/15/20 07:01
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-41753-24
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/30/20 17:00	11/03/20 20:20	1
Lead	**9.83**	**J B**	12.0	3.16	ug/Sample		10/30/20 17:00	11/03/20 20:20	1
Manganese	**89.6**		6.00	3.34	ug/Sample		10/30/20 17:00	11/03/20 20:20	1

Client Sample ID: PE-TSP101520-12ADOWNWIND
Date Collected: 10/15/20 07:11
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-41753-25
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/30/20 17:00	11/03/20 20:31	1
Lead	**13.8**	**B**	12.0	3.16	ug/Sample		10/30/20 17:00	11/03/20 20:31	1
Manganese	**95.5**		6.00	3.34	ug/Sample		10/30/20 17:00	11/03/20 20:31	1

Client Sample ID: PE-TSP101620-B606UPWIND
Date Collected: 10/16/20 07:04
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-41753-28
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/30/20 17:00	11/03/20 20:32	1
Lead	**18.5**	**B**	12.0	3.16	ug/Sample		10/30/20 17:00	11/03/20 20:32	1
Manganese	**125**		6.00	3.34	ug/Sample		10/30/20 17:00	11/03/20 20:32	1

Client Sample ID: PE-TSP101620-12ADOWNWIND
Date Collected: 10/16/20 07:11
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-41753-29
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/30/20 17:00	11/03/20 20:34	1
Lead	**9.48**	**J B**	12.0	3.16	ug/Sample		10/30/20 17:00	11/03/20 20:34	1
Manganese	**72.4**		6.00	3.34	ug/Sample		10/30/20 17:00	11/03/20 20:34	1

General Chemistry

Client Sample ID: PE-TSP101220-B606UPWIND — **Lab Sample ID: 570-41753-12**
Date Collected: 10/12/20 07:08 — **Matrix: Air**
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	35.7		5.92	5.92	ug/m3			10/28/20 13:00	1

Client Sample ID: PE-TSP101220-12ADOWNWIND — **Lab Sample ID: 570-41753-13**
Date Collected: 10/12/20 07:16 — **Matrix: Air**
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	39.7		5.90	5.90	ug/m3			10/28/20 13:00	1

Client Sample ID: PE_PM10101220-B606UPWIND — **Lab Sample ID: 570-41753-14**
Date Collected: 10/12/20 07:08 — **Matrix: Air**
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	12.8		5.92	5.92	ug/m3			10/28/20 19:00	1

Client Sample ID: PE_PM10101220-12ADOWNWIND — **Lab Sample ID: 570-41753-15**
Date Collected: 10/12/20 07:16 — **Matrix: Air**
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	25.1		5.75	5.75	ug/m3			10/28/20 19:00	1

Client Sample ID: PE-TSP101320-B606UPWIND — **Lab Sample ID: 570-41753-16**
Date Collected: 10/13/20 07:01 — **Matrix: Air**
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	65.9		5.83	5.83	ug/m3			10/28/20 13:00	1

Client Sample ID: PE-TSP101320-12ADOWNWIND — **Lab Sample ID: 570-41753-17**
Date Collected: 10/13/20 07:11 — **Matrix: Air**
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	48.4		5.83	5.83	ug/m3			10/28/20 13:00	1

Client Sample ID: PE_PM10101320-B606UPWIND — **Lab Sample ID: 570-41753-18**
Date Collected: 10/13/20 07:01 — **Matrix: Air**
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	21.2		5.83	5.83	ug/m3			10/28/20 19:00	1

Client Sample ID: PE_PM10101320-12ADOWNWIND — **Lab Sample ID: 570-41753-19**
Date Collected: 10/13/20 07:11 — **Matrix: Air**
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		5.83	5.83	ug/m3			10/28/20 19:00	1

General Chemistry

Client Sample ID: PE-TSP101420-B606UPWIND — **Lab Sample ID: 570-41753-20**
Date Collected: 10/14/20 07:04 — **Matrix: Air**
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	66.7		5.87	5.87	ug/m3			10/28/20 13:00	1

Client Sample ID: PE-TSP101420-12ADOWNWIND — **Lab Sample ID: 570-41753-21**
Date Collected: 10/14/20 07:15 — **Matrix: Air**
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	47.9		5.88	5.88	ug/m3			10/28/20 13:00	1

Client Sample ID: PE_PM10101420-B606UPWIND — **Lab Sample ID: 570-41753-22**
Date Collected: 10/14/20 07:04 — **Matrix: Air**
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	15.5		5.87	5.87	ug/m3			10/28/20 19:00	1

Client Sample ID: PE_PM10101420-12ADOWNWIND — **Lab Sample ID: 570-41753-23**
Date Collected: 10/14/20 07:15 — **Matrix: Air**
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	65.8		14.3	14.3	ug/m3			10/28/20 19:00	1

Client Sample ID: PE-TSP101520-B606UPWIND — **Lab Sample ID: 570-41753-24**
Date Collected: 10/15/20 07:01 — **Matrix: Air**
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	120		5.83	5.83	ug/m3			10/28/20 13:00	1

Client Sample ID: PE-TSP101520-12ADOWNWIND — **Lab Sample ID: 570-41753-25**
Date Collected: 10/15/20 07:11 — **Matrix: Air**
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	354		14.9	14.9	ug/m3			10/28/20 13:00	1

Client Sample ID: PE_PM10101520-B606UPWIND — **Lab Sample ID: 570-41753-26**
Date Collected: 10/15/20 07:01 — **Matrix: Air**
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	42.2		5.83	5.83	ug/m3			10/28/20 19:00	1

Client Sample ID: PE_PM10101520-12ADOWNWIND — **Lab Sample ID: 570-41753-27**
Date Collected: 10/15/20 07:11 — **Matrix: Air**
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	193		14.9	14.9	ug/m3			10/28/20 19:00	1

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

Job ID: 570-41753-1

General Chemistry

Client Sample ID: PE-TSP101620-B606UPWIND
Lab Sample ID: 570-41753-28
Date Collected: 10/16/20 07:04
Matrix: Air
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	125		5.68	5.68	ug/m3			10/28/20 13:00	1

Client Sample ID: PE-TSP101620-12ADOWNWIND
Lab Sample ID: 570-41753-29
Date Collected: 10/16/20 07:11
Matrix: Air
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	73.5		6.02	6.02	ug/m3			10/28/20 13:00	1

Client Sample ID: PE_PM10101620-B606UPWIND
Lab Sample ID: 570-41753-30
Date Collected: 10/16/20 07:04
Matrix: Air
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	43.4		5.68	5.68	ug/m3			10/28/20 19:00	1

Client Sample ID: PE_PM10101620-12ADOWNWIND
Lab Sample ID: 570-41753-31
Date Collected: 10/16/20 07:11
Matrix: Air
Date Received: 10/21/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	37.6		5.87	5.87	ug/m3			10/28/20 19:00	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-105954/1-A
Matrix: Air
Analysis Batch: 106798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105954

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		10/30/20 17:00	11/03/20 19:17	1
Lead	3.500	J	12.0	3.16	ug/Sample		10/30/20 17:00	11/03/20 19:17	1
Manganese	ND		6.00	3.34	ug/Sample		10/30/20 17:00	11/03/20 19:17	1

Lab Sample ID: LCS 570-105954/2-A
Matrix: Air
Analysis Batch: 106798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	600	601.3		ug/Sample		100	80 - 120
Lead	600	595.9		ug/Sample		99	80 - 120
Manganese	600	601.2		ug/Sample		100	80 - 120

Lab Sample ID: LCSD 570-105954/3-A
Matrix: Air
Analysis Batch: 106798

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 105954

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	600	573.3		ug/Sample		96	80 - 120	5	20
Lead	600	594.5		ug/Sample		99	80 - 120	0	20
Manganese	600	601.4		ug/Sample		100	80 - 120	0	20

Lab Sample ID: 570-41663-A-12-D MS
Matrix: Air
Analysis Batch: 106798

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 105954

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	15.6	J	600	560.7		ug/Sample		91	75 - 125
Lead	9.89	J B	600	585.1		ug/Sample		96	75 - 125
Manganese	37.5		600	620.3		ug/Sample		97	75 - 125

Lab Sample ID: 570-41663-A-12-E MSD
Matrix: Air
Analysis Batch: 106798

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 105954

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	15.6	J	600	561.6		ug/Sample		91	75 - 125	0	20
Lead	9.89	J B	600	577.2		ug/Sample		95	75 - 125	1	20
Manganese	37.5		600	615.0		ug/Sample		96	75 - 125	1	20

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

Lab Sample ID: MB 570-105842/1-A
Matrix: Air
Analysis Batch: 105871

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			10/28/20 13:00	1

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

Lab Sample ID: 570-41663-A-12-B DU
Matrix: Air
Analysis Batch: 105871

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	33.2			33.18		ug/m3				0	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-106513/1
Matrix: Air
Analysis Batch: 106513

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			10/28/20 19:00	1

Lab Sample ID: 570-41753-31 DU
Matrix: Air
Analysis Batch: 106513

Client Sample ID: PE_PM10101620-12ADOWNWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	37.6			37.58		ug/m3				0	25

Metals

Prep Batch: 105954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-41753-12	PE-TSP101220-B606UPWIND	Total/NA	Air	3050B	
570-41753-13	PE-TSP101220-12ADOWNWIND	Total/NA	Air	3050B	
570-41753-16	PE-TSP101320-B606UPWIND	Total/NA	Air	3050B	
570-41753-17	PE-TSP101320-12ADOWNWIND	Total/NA	Air	3050B	
570-41753-20	PE-TSP101420-B606UPWIND	Total/NA	Air	3050B	
570-41753-21	PE-TSP101420-12ADOWNWIND	Total/NA	Air	3050B	
570-41753-24	PE-TSP101520-B606UPWIND	Total/NA	Air	3050B	
570-41753-25	PE-TSP101520-12ADOWNWIND	Total/NA	Air	3050B	
570-41753-28	PE-TSP101620-B606UPWIND	Total/NA	Air	3050B	
570-41753-29	PE-TSP101620-12ADOWNWIND	Total/NA	Air	3050B	
MB 570-105954/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-105954/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-105954/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-41663-A-12-D MS	Matrix Spike	Total/NA	Air	3050B	
570-41663-A-12-E MSD	Matrix Spike Duplicate	Total/NA	Air	3050B	

Analysis Batch: 106798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-41753-12	PE-TSP101220-B606UPWIND	Total/NA	Air	6010B	105954
570-41753-13	PE-TSP101220-12ADOWNWIND	Total/NA	Air	6010B	105954
570-41753-16	PE-TSP101320-B606UPWIND	Total/NA	Air	6010B	105954
570-41753-17	PE-TSP101320-12ADOWNWIND	Total/NA	Air	6010B	105954
570-41753-20	PE-TSP101420-B606UPWIND	Total/NA	Air	6010B	105954
570-41753-21	PE-TSP101420-12ADOWNWIND	Total/NA	Air	6010B	105954
570-41753-24	PE-TSP101520-B606UPWIND	Total/NA	Air	6010B	105954
570-41753-25	PE-TSP101520-12ADOWNWIND	Total/NA	Air	6010B	105954
570-41753-28	PE-TSP101620-B606UPWIND	Total/NA	Air	6010B	105954
570-41753-29	PE-TSP101620-12ADOWNWIND	Total/NA	Air	6010B	105954
MB 570-105954/1-A	Method Blank	Total/NA	Air	6010B	105954
LCS 570-105954/2-A	Lab Control Sample	Total/NA	Air	6010B	105954
LCSD 570-105954/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	105954
570-41663-A-12-D MS	Matrix Spike	Total/NA	Air	6010B	105954
570-41663-A-12-E MSD	Matrix Spike Duplicate	Total/NA	Air	6010B	105954

General Chemistry

Pre Prep Batch: 105842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-41753-12	PE-TSP101220-B606UPWIND	Total/NA	Air	Filter to Air	
570-41753-13	PE-TSP101220-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-41753-16	PE-TSP101320-B606UPWIND	Total/NA	Air	Filter to Air	
570-41753-17	PE-TSP101320-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-41753-20	PE-TSP101420-B606UPWIND	Total/NA	Air	Filter to Air	
570-41753-21	PE-TSP101420-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-41753-24	PE-TSP101520-B606UPWIND	Total/NA	Air	Filter to Air	
570-41753-25	PE-TSP101520-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-41753-28	PE-TSP101620-B606UPWIND	Total/NA	Air	Filter to Air	
570-41753-29	PE-TSP101620-12ADOWNWIND	Total/NA	Air	Filter to Air	
MB 570-105842/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-41663-A-12-B DU	Duplicate	Total/NA	Air	Filter to Air	

QC Association Summary

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

Job ID: 570-41753-1

General Chemistry

Analysis Batch: 105871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-41753-12	PE-TSP101220-B606UPWIND	Total/NA	Air	40CFR50 App B	105842
570-41753-13	PE-TSP101220-12ADOWNWIND	Total/NA	Air	40CFR50 App B	105842
570-41753-16	PE-TSP101320-B606UPWIND	Total/NA	Air	40CFR50 App B	105842
570-41753-17	PE-TSP101320-12ADOWNWIND	Total/NA	Air	40CFR50 App B	105842
570-41753-20	PE-TSP101420-B606UPWIND	Total/NA	Air	40CFR50 App B	105842
570-41753-21	PE-TSP101420-12ADOWNWIND	Total/NA	Air	40CFR50 App B	105842
570-41753-24	PE-TSP101520-B606UPWIND	Total/NA	Air	40CFR50 App B	105842
570-41753-25	PE-TSP101520-12ADOWNWIND	Total/NA	Air	40CFR50 App B	105842
570-41753-28	PE-TSP101620-B606UPWIND	Total/NA	Air	40CFR50 App B	105842
570-41753-29	PE-TSP101620-12ADOWNWIND	Total/NA	Air	40CFR50 App B	105842
MB 570-105842/1-A	Method Blank	Total/NA	Air	40CFR50 App B	105842
570-41663-A-12-B DU	Duplicate	Total/NA	Air	40CFR50 App B	105842

Analysis Batch: 106513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-41753-14	PE_PM10101220-B606UPWIND	Total/NA	Air	PM10	
570-41753-15	PE_PM10101220-12ADOWNWIND	Total/NA	Air	PM10	
570-41753-18	PE_PM10101320-B606UPWIND	Total/NA	Air	PM10	
570-41753-19	PE_PM10101320-12ADOWNWIND	Total/NA	Air	PM10	
570-41753-22	PE_PM10101420-B606UPWIND	Total/NA	Air	PM10	
570-41753-23	PE_PM10101420-12ADOWNWIND	Total/NA	Air	PM10	
570-41753-26	PE_PM10101520-B606UPWIND	Total/NA	Air	PM10	
570-41753-27	PE_PM10101520-12ADOWNWIND	Total/NA	Air	PM10	
570-41753-30	PE_PM10101620-B606UPWIND	Total/NA	Air	PM10	
570-41753-31	PE_PM10101620-12ADOWNWIND	Total/NA	Air	PM10	
MB 570-106513/1	Method Blank	Total/NA	Air	PM10	
570-41753-31 DU	PE_PM10101620-12ADOWNWIND	Total/NA	Air	PM10	

Lab Chronicle

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

Job ID: 570-41753-1

Client Sample ID: PE-TSP101220-B606UPWIND
Lab Sample ID: 570-41753-12
Date Collected: 10/12/20 07:08
Matrix: Air
Date Received: 10/21/20 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	105954	10/30/20 17:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			106798	11/03/20 20:08	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					105842	10/28/20 13:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			105871	10/28/20 13:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP101220-12ADOWNWIND
Lab Sample ID: 570-41753-13
Date Collected: 10/12/20 07:16
Matrix: Air
Date Received: 10/21/20 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	105954	10/30/20 17:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			106798	11/03/20 20:10	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					105842	10/28/20 13:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			105871	10/28/20 13:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10101220-B606UPWIND
Lab Sample ID: 570-41753-14
Date Collected: 10/12/20 07:08
Matrix: Air
Date Received: 10/21/20 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	4.3972 g	4.4037 g	106513	10/28/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10101220-12ADOWNWIND
Lab Sample ID: 570-41753-15
Date Collected: 10/12/20 07:16
Matrix: Air
Date Received: 10/21/20 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	4.4146 g	4.4277 g	106513	10/28/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP101320-B606UPWIND
Lab Sample ID: 570-41753-16
Date Collected: 10/13/20 07:01
Matrix: Air
Date Received: 10/21/20 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	105954	10/30/20 17:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			106798	11/03/20 20:13	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					105842	10/28/20 13:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			105871	10/28/20 13:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-41753-1

Client Sample ID: PE-TSP101320-12ADOWNWIND
Lab Sample ID: 570-41753-17
Date Collected: 10/13/20 07:11
Matrix: Air
Date Received: 10/21/20 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	105954	10/30/20 17:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			106798	11/03/20 20:14	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					105842	10/28/20 13:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			105871	10/28/20 13:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10101320-B606UPWIND
Lab Sample ID: 570-41753-18
Date Collected: 10/13/20 07:01
Matrix: Air
Date Received: 10/21/20 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	4.2946 g	4.3055 g	106513	10/28/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10101320-12ADOWNWIND
Lab Sample ID: 570-41753-19
Date Collected: 10/13/20 07:11
Matrix: Air
Date Received: 10/21/20 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	4.3253 g	4.3253 g	106513	10/28/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP101420-B606UPWIND
Lab Sample ID: 570-41753-20
Date Collected: 10/14/20 07:04
Matrix: Air
Date Received: 10/21/20 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	105954	10/30/20 17:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			106798	11/03/20 20:17	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					105842	10/28/20 13:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			105871	10/28/20 13:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP101420-12ADOWNWIND
Lab Sample ID: 570-41753-21
Date Collected: 10/14/20 07:15
Matrix: Air
Date Received: 10/21/20 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	105954	10/30/20 17:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			106798	11/03/20 20:19	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					105842	10/28/20 13:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			105871	10/28/20 13:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-41753-1

Client Sample ID: PE_PM10101420-B606UPWIND
Lab Sample ID: 570-41753-22
Date Collected: 10/14/20 07:04
Matrix: Air
Date Received: 10/21/20 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	4.3244 g	4.3323 g	106513	10/28/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10101420-12ADOWNWIND
Lab Sample ID: 570-41753-23
Date Collected: 10/14/20 07:15
Matrix: Air
Date Received: 10/21/20 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	4.3037 g	4.3175 g	106513	10/28/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP101520-B606UPWIND
Lab Sample ID: 570-41753-24
Date Collected: 10/15/20 07:01
Matrix: Air
Date Received: 10/21/20 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	105954	10/30/20 17:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			106798	11/03/20 20:20	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					105842	10/28/20 13:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			105871	10/28/20 13:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP101520-12ADOWNWIND
Lab Sample ID: 570-41753-25
Date Collected: 10/15/20 07:11
Matrix: Air
Date Received: 10/21/20 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	105954	10/30/20 17:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			106798	11/03/20 20:31	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					105842	10/28/20 13:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			105871	10/28/20 13:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10101520-B606UPWIND
Lab Sample ID: 570-41753-26
Date Collected: 10/15/20 07:01
Matrix: Air
Date Received: 10/21/20 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	4.3832 g	4.4049 g	106513	10/28/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-41753-1

Client Sample ID: PE_PM10101520-12ADOWNWIND
Lab Sample ID: 570-41753-27
Date Collected: 10/15/20 07:11
Matrix: Air
Date Received: 10/21/20 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	4.3576 g	4.3964 g	106513	10/28/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP101620-B606UPWIND
Lab Sample ID: 570-41753-28
Date Collected: 10/16/20 07:04
Matrix: Air
Date Received: 10/21/20 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	105954	10/30/20 17:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			106798	11/03/20 20:32	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					105842	10/28/20 13:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			105871	10/28/20 13:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP101620-12ADOWNWIND
Lab Sample ID: 570-41753-29
Date Collected: 10/16/20 07:11
Matrix: Air
Date Received: 10/21/20 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	105954	10/30/20 17:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			106798	11/03/20 20:34	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					105842	10/28/20 13:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			105871	10/28/20 13:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10101620-B606UPWIND
Lab Sample ID: 570-41753-30
Date Collected: 10/16/20 07:04
Matrix: Air
Date Received: 10/21/20 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	4.3279 g	4.3508 g	106513	10/28/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10101620-12ADOWNWIND
Lab Sample ID: 570-41753-31
Date Collected: 10/16/20 07:11
Matrix: Air
Date Received: 10/21/20 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	4.3370 g	4.3562 g	106513	10/28/20 19:00	UAPD	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: 570-41753-1

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: 570-41753-1

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: 570-41753-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-41753-1	PE-ASB101220-B606UPWIND	Air	10/12/20 07:08	10/21/20 11:00	
570-41753-2	PE-ASB101220-12ADOWNWIND	Air	10/12/20 07:16	10/21/20 11:00	
570-41753-3	PE-ASB101320-B606UPWIND	Air	10/13/20 07:01	10/21/20 11:00	
570-41753-4	PE-ASB101320-12ADOWNWIND	Air	10/13/20 07:11	10/21/20 11:00	
570-41753-5	PE-ASB101420-B606UPWIND	Air	10/14/20 07:04	10/21/20 11:00	
570-41753-6	PE-ASB101420-12ADOWNWIND	Air	10/14/20 07:15	10/21/20 11:00	
570-41753-7	PE-ASB101520-B606UPWIND	Air	10/15/20 07:01	10/21/20 11:00	
570-41753-8	PE-ASB101520-12ADOWNWIND	Air	10/15/20 07:11	10/21/20 11:00	
570-41753-9	PE-ASB101620-B606UPWIND	Air	10/16/20 07:04	10/21/20 11:00	
570-41753-10	PE-ASB101620-12ADOWNWIND	Air	10/16/20 07:11	10/21/20 11:00	
570-41753-11	PE-ASB101620-BLANK	Air	10/16/20 07:04	10/21/20 11:00	
570-41753-12	PE-TSP101220-B606UPWIND	Air	10/12/20 07:08	10/21/20 11:00	
570-41753-13	PE-TSP101220-12ADOWNWIND	Air	10/12/20 07:16	10/21/20 11:00	
570-41753-14	PE_PM10101220-B606UPWIND	Air	10/12/20 07:08	10/21/20 11:00	
570-41753-15	PE_PM10101220-12ADOWNWIND	Air	10/12/20 07:16	10/21/20 11:00	
570-41753-16	PE-TSP101320-B606UPWIND	Air	10/13/20 07:01	10/21/20 11:00	
570-41753-17	PE-TSP101320-12ADOWNWIND	Air	10/13/20 07:11	10/21/20 11:00	
570-41753-18	PE_PM10101320-B606UPWIND	Air	10/13/20 07:01	10/21/20 11:00	
570-41753-19	PE_PM10101320-12ADOWNWIND	Air	10/13/20 07:11	10/21/20 11:00	
570-41753-20	PE-TSP101420-B606UPWIND	Air	10/14/20 07:04	10/21/20 11:00	
570-41753-21	PE-TSP101420-12ADOWNWIND	Air	10/14/20 07:15	10/21/20 11:00	
570-41753-22	PE_PM10101420-B606UPWIND	Air	10/14/20 07:04	10/21/20 11:00	
570-41753-23	PE_PM10101420-12ADOWNWIND	Air	10/14/20 07:15	10/21/20 11:00	
570-41753-24	PE-TSP101520-B606UPWIND	Air	10/15/20 07:01	10/21/20 11:00	
570-41753-25	PE-TSP101520-12ADOWNWIND	Air	10/15/20 07:11	10/21/20 11:00	
570-41753-26	PE_PM10101520-B606UPWIND	Air	10/15/20 07:01	10/21/20 11:00	
570-41753-27	PE_PM10101520-12ADOWNWIND	Air	10/15/20 07:11	10/21/20 11:00	
570-41753-28	PE-TSP101620-B606UPWIND	Air	10/16/20 07:04	10/21/20 11:00	
570-41753-29	PE-TSP101620-12ADOWNWIND	Air	10/16/20 07:11	10/21/20 11:00	
570-41753-30	PE_PM10101620-B606UPWIND	Air	10/16/20 07:04	10/21/20 11:00	
570-41753-31	PE_PM10101620-12ADOWNWIND	Air	10/16/20 07:11	10/21/20 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: 332019047
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: 10/23/2020 02:40 PM
Analysis Date: 11/03/2020
Collected Date: 10/12/2020 - 10/16/2020

Project: HPNS - Parcel E / 500712 / 570-41753

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-ASB101220-B606UPWIND (570-41753-1) *332019047-0001*		10/12/2020	2176	<5.5	100	0.0012	<7.01	<0.0012	
PE-ASB101220-12ADOWNWIND (570-41753-2) *332019047-0002*		10/12/2020	1282	<5.5	100	0.0021	<7.01	<0.0021	
PE-ASB101320-B606UPWIND (570-41753-3) *332019047-0003*		10/13/2020	1310	<5.5	100	0.0021	<7.01	<0.0021	
PE-ASB101320-12ADOWNWIND (570-41753-4) *332019047-0004*		10/13/2020	1922	<5.5	100	0.0014	<7.01	<0.0014	
PE-ASB101420-B606UPWIND (570-41753-5) *332019047-0005*		10/14/2020	1482	7	100	0.0018	8.92	0.0023	
PE-ASB101420-12ADOWNWIND (570-41753-6) *332019047-0006*		10/14/2020	1976	<5.5	100	0.0014	<7.01	<0.0014	
PE-ASB101520-B606UPWIND (570-41753-7) *332019047-0007*		10/15/2020	1816	13	100	0.0015	16.6	0.0035	Sample pulled for 10% duplicate count.
PE-ASB101520-12ADOWNWIND (570-41753-8) *332019047-0008*		10/15/2020	908	11	100	0.0030	14.0	0.0059	
PE-ASB101620-B606UPWIND (570-41753-9) *332019047-0009*		10/16/2020	932	6	100	0.0029	7.64	0.0032	
PE-ASB101620-12ADOWNWIND (570-41753-10) *332019047-0010*		10/16/2020	902	<5.5	100	0.0030	<7.01	<0.0030	
PE-ASB101620-BLANK (570-41753-11) *332019047-0011*		10/16/2020		<5.5	100		<7.01		Field Blank
PE-ASB101520-B606UPWIND (570-41753-7) *332019047-0012*		10/12/2020	1816	10	100	0.0015	12.7	0.0027	10% duplicate count.

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: 11/03/2020 10:09 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: 332019047
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: 10/23/2020 02:40 PM
Analysis Date: 11/03/2020
Collected Date: 10/12/2020 - 10/16/2020

Project: HPNS - Parcel E / 500712 / 570-41753

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

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

The results reported have been blank corrected as applicable.

Analyst(s):
Dennies Ly PCM 12

Michael Chapman, Laboratory Manager
or other Approved Signatory

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

Initial report from: 11/03/2020 10:09 AM

APTIM 570-41753 Chain of Custody

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 030

Page 1 of 2

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

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

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

	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-ASB101220-B606UPWIND	CW558388	10/12/20	7:08	G	A	1	PCM			X			2.00	2.18			
2	PE-ASB101220-12ADOWNWIND	CW558436	10/12/20	7:16	G	A	1	PCM			X			2.00	1.28			
3	PE-ASB101320-B606UPWIND	CW558440	10/13/20	7:01	G	A	1	PCM			X			2.00	1.31			
4	PE-ASB101320-12ADOWNWIND	CW558401	10/13/20	7:11	G	A	1	PCM			X			2.00	1.92			
5	PE-ASB101420-B606UPWIND	CW558394	10/14/20	7:04	G	A	1	PCM			X			2.00	1.48			
6	PE-ASB101420-12ADOWNWIND	CW558387	10/14/20	7:15	G	A	1	PCM			X			2.00	1.98			
7	PE-ASB101520-B606UPWIND	CW558409	10/15/20	7:01	G	A	1	PCM			X			2.00	1.82			
8	PE-ASB101520-12ADOWNWIND	CW558451	10/15/20	7:11	G	A	1	PCM			X			2.00	0.91			
9	PE-ASB101620-B606UPWIND	CW558415	10/16/20	7:04	G	A	1	PCM			X			2.00	0.93			
10	PE-ASB101620-12ADOWNWIND	CW558397	10/16/20	7:11	G	A	1	PCM			X			2.00	0.90			
11	PE-ASB101620-BLANK	CW558424	10/16/20	7:04	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	10/16/20 1600	Lock & Storage	10/16/20 1600
Lock & Storage	10/20/20 0830	Edgar Ruiz	10/20/20 0830
Edgar Ruiz	10/20/20 0955		10/20/20 0955
to GSO	10/20/20 1630		10/21/2020 1100

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

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 030

Page 2 of 2

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

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

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

Sampler's Name(s): ER

	Sample ID Number	Lot No.	Collection Information			Matrix	# of containers	Container Type	Analyses Requested									
			Date	Time	Method				PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOS	Flow Rate (L/min.)	Sample Volume (m^3)			
12	PE-TSP101220-B606UPWIND	Q0411068	10/12/20	7:08	G	A	1	8X10 EPM Whatman					X	1132.8	506.4			
13	PE-TSP101220-12ADOWNWIND	Q0411070	10/12/20	7:16	G	A	1	8X10 EPM Whatman					X	1132.8	508.6			
14	PE_PM10101220-B606UPWIND	Q0411069	10/12/20	7:08	G	A	1	8X10 EPM Whatman				X		1132.8	506.4			
15	PE_PM10101220-12ADOWNWIND	Q0411071	10/12/20	7:16	G	A	1	8X10 EPM Whatman				X		1161.1	521.3			
16	PE-TSP101320-B606UPWIND	Q0409109	10/13/20	7:01	G	A	1	8X10 EPM Whatman					X	1132.8	514.3			
17	PE-TSP101320-12ADOWNWIND	Q0409111	10/13/20	7:11	G	A	1	8X10 EPM Whatman					X	1132.8	514.3			
18	PE_PM10101320-B606UPWIND	Q0409110	10/13/20	7:01	G	A	1	8X10 EPM Whatman				X		1132.8	514.3			
19	PE_PM10101320-12ADOWNWIND	Q0409112	10/13/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.8	514.3			
20	PE-TSP101420-B606UPWIND	Q0409108	10/14/20	7:04	G	A	1	8X10 EPM Whatman					X	1132.8	510.9			
21	PE-TSP101420-12ADOWNWIND	Q0409118	10/14/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.8	509.8			
22	PE_PM10101420-B606UPWIND	Q0409117	10/14/20	7:04	G	A	1	8X10 EPM Whatman				X		1132.8	510.9			
23	PE_PM10101420-12ADOWNWIND	Q0409119	10/14/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.8	509.8			
24	PE-TSP101520-B606UPWIND	Q0409124	10/15/20	7:01	G	A	1	8X10 EPM Whatman					X	1132.8	514.3			
25	PE-TSP101520-12ADOWNWIND	Q0409126	10/15/20	7:11	G	A	1	8X10 EPM Whatman					X	1104.5	501.4			
26	PE_PM10101520-B606UPWIND	Q0409125	10/15/20	7:01	G	A	1	8X10 EPM Whatman				X		1132.8	514.3			
27	PE_PM10101520-12ADOWNWIND	Q0409127	10/15/20	7:11	G	A	1	8X10 EPM Whatman				X		1104.5	501.4			
28	PE-TSP101620-B606UPWIND	Q0409132	10/16/20	7:04	G	A	1	8X10 EPM Whatman					X	1132.8	527.9			
29	PE-TSP101620-12ADOWNWIND	Q0409134	10/16/20	7:11	G	A	1	8X10 EPM Whatman					X	1104.5	498.1			
30	PE_PM10101620-B606UPWIND	Q0409133	10/16/20	7:04	G	A	1	8X10 EPM Whatman				X		1132.8	527.9			
31	PE_PM10101620-12ADOWNWIND	Q0409135	10/16/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.8	510.9			

AIR MONITORING LOG

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

STATION COC# 030

SAMPLE NO. PE-ASB101220-B606UPWIND 10/12/2020 *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				
CW558388	2.000	2.000	2.000	10/12/20 07:08	10/13/20 01:16	1088	2.18	Asbestos	2.00

SAMPLE NO. PE-ASB101220-12ADOWNWIND 10/12/2020 *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				
CW558436	2.000	2.000	2.000	10/12/20 07:16	10/12/20 17:57	641	1.28	Asbestos	2.00

SAMPLE NO. PE-ASB101320-B606UPWIND 10/13/2020 *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				
CW558440	2.000	2.000	2.000	10/12/20 07:01	10/12/20 17:56	655	1.31	Asbestos	2.00

SAMPLE NO. PE-ASB101320-12ADOWNWIND 10/13/2020 *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				
CW558401	2.000	2.000	2.000	10/12/20 07:11	10/12/20 23:12	961	1.92	Asbestos	2.00

SAMPLE NO. PE-ASB101420-B606UPWIND 10/14/2020 *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				
CW558394	2.000	2.000	2.000	10/14/20 07:04	10/14/20 19:25	741	1.48	Asbestos	2.00

SAMPLE NO. PE-ASB101420-12ADOWNWIND 10/14/2020 *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				
CW558387	2.000	2.000	2.000	10/14/20 07:15	10/14/20 23:43	988	1.98	Asbestos	2.00

SAMPLE NO. PE-ASB101520-B606UPWIND 10/15/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW558409	2.000	2.000	2.000	10/15/20 07:01	10/15/20 22:09	908	1.82	Asbestos	2.00

SAMPLE NO. PE-ASB101520-12ADOWNWIND 10/15/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW558451	2.000	2.000	2.000	10/15/20 07:11	10/15/20 14:45	454	0.91	Asbestos	2.00

SAMPLE NO.	PE-ASB101620-B606UPWIND			10/16/2020 *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				
CW558415	2.000	2.000	2.000	10/16/20 07:04	10/16/20 14:50	466	0.93	Asbestos	2.00

SAMPLE NO.	PE-ASB101620-12ADOWNWIND			10/16/2020 *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				
CW558397	2.000	2.000	2.0	10/16/20 07:11	10/16/20 14:42	451	0.90	Asbestos	2.00

SAMPLE NO.	PE-ASB101620-BLANK			10/16/2020 *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				
CW558424				10/16/20 07:04			0.0	Asbestos	

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

STATION COC# 030

SAMPLE NO. PE-TSP101220-B606UPWIND 10/12/2020 *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				
Q0411068	40.0	40.0	40.0	10/12/20 07:08	10/12/20 14:35	447	506.4	TSP	1132.80

SAMPLE NO. PE-TSP101220-12ADOWNWIND 10/12/2020 *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				
Q0411070	40.0	40.0	40.0	10/12/20 07:16	10/12/20 14:45	449	508.6	TSP	1132.80

SAMPLE NO. PE_PM10101220-B606UPWIND 10/12/2020 *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				
Q0411069	40.0	40.0	40.0	10/12/20 07:08	10/12/20 14:35	447	506.4	PM-10	1132.80

SAMPLE NO. PE_PM10101220-12ADOWNWIND 10/12/2020 *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				
Q0411071	41.0	41.0	41.0	10/12/20 07:16	10/12/20 14:45	449	521.3	PM-10	1161.12

SAMPLE NO. PE-TSP101320-B606UPWIND 10/13/2020 *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				
Q0409109	40.0	40.0	40.0	10/13/20 07:01	10/13/20 14:35	454	514.3	TSP	1132.80

SAMPLE NO. PE-TSP101320-12ADOWNWIND 10/13/2020 *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				
Q0409111	40.0	40.0	40.0	10/13/20 07:11	10/13/20 14:45	454	514.3	TSP	1132.80

SAMPLE NO. PE_PM10101320-B606UPWIND 10/13/2020 *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				
Q0409110	40.0	40.0	40.0	10/13/20 07:01	10/13/20 14:35	454	514.3	PM-10	1132.80

SAMPLE NO. PE_PM10101320-12ADOWNWIND 10/13/2020 *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				
Q0409112	40.0	40.0	40.0	10/13/20 07:11	10/13/20 14:45	454	514.3	PM-10	1132.80

SAMPLE NO. PE-TSP101420-B606UPWIND 10/14/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409108	40.0	40.0	40.0	10/14/20 07:04	10/14/20 14:35	451	510.9	TSP	1132.80

SAMPLE NO. PE-TSP101420-12ADOWNWIND 10/14/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409118	40.0	40.0	40.0	10/14/20 07:15	10/14/20 14:45	450	509.8	TSP	1132.80

SAMPLE NO. PE_PM10101420-B606UPWIND 10/14/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409117	40.0	40.0	40.0	10/14/20 07:04	10/14/20 14:35	451	510.9	PM-10	1132.80

SAMPLE NO. PE_PM10101420-12ADOWNWIND 10/14/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409119	40.0	40.0	40.0	10/14/20 07:15	10/14/20 14:45	450	509.8	PM-10	1132.80

SAMPLE NO. PE-TSP101520-B606UPWIND 10/15/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409124	40.0	40.0	40.0	10/15/20 07:01	10/15/20 14:35	454	514.3	TSP	1132.80

SAMPLE NO. PE-TSP101520-12ADOWNWIND 10/15/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409126	39.0	39.0	39.0	10/15/20 07:11	10/15/20 14:45	454	501.4	TSP	1104.48

SAMPLE NO. PE_PM10101520-B606UPWIND 10/15/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409125	40.0	40.0	40.0	10/15/20 07:01	10/15/20 14:35	454	514.3	PM-10	1132.80

SAMPLE NO. PE_PM10101520-12ADOWNWIND 10/15/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409127	39.0	39.0	39.0	10/15/20 07:11	10/15/20 14:45	454	501.4	PM-10	1104.48

SAMPLE NO. PE-TSP101620-B606UPWIND 10/16/2020 *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				

Q0409132	40.0	40.0	40.0	10/16/20 07:04	10/16/20 14:50	466	527.9	TSP	1132.80

SAMPLE NO. **PE-TSP101620-12ADOWNWIND** 10/16/2020 *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				
Q0409134	39.0	39.0	39.0	10/16/20 07:11	10/16/20 14:42	451	498.1	TSP	1104.48

SAMPLE NO. **PE_PM10101620-B606UPWIND** 10/16/2020 *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				
Q0409133	40.0	40.0	40.0	10/16/20 07:04	10/16/20 14:50	466	527.9	PM-10	1132.80

SAMPLE NO. **PE_PM10101620-12ADOWNWIND** 10/16/2020 *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				
Q0409135	40.0	40.0	40.0	10/16/20 07:11	10/16/20 14:42	451	510.9	PM-10	1132.80

GLS

800-322-5555
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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 #: 550859078

NPS

GARDEN GROVE

S92841A

29155537

ORC CA927-CL0

Print Date: 10/20/2020 12:12 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: 570-41753-1

Login Number: 41753
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: 570-42223-1
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:
12/3/2020 2:51:04 PM

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

Table of Contents

Definitions/Glossary

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

Job ID: 570-42223-1

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: 570-42223-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-42223-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 11/12/2020. The report (revision 1) is being revised to correct the sample collection time for Asbestos per client's request.

Receipt
The samples were received on 10/28/2020 10:45 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 570-108801 and analytical batch 570-109019 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-TSP101920-B606UPWIND
Date Collected: 10/19/20 06:59
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Lab Sample ID: 570-42223-14
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/11/20 14:00	11/11/20 22:07	1
Lead	**3.61**	**J**	12.0	3.16	ug/Sample		11/11/20 14:00	11/11/20 22:07	1
Manganese	**21.0**	**B**	6.00	3.34	ug/Sample		11/11/20 14:00	11/11/20 22:07	1

Client Sample ID: PE-TSP101920-12ADOWNWIND
Date Collected: 10/19/20 07:07
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Lab Sample ID: 570-42223-15
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/11/20 14:00	11/11/20 22:13	1
Lead	**7.07**	**J**	12.0	3.16	ug/Sample		11/11/20 14:00	11/11/20 22:13	1
Manganese	**30.1**	**B**	6.00	3.34	ug/Sample		11/11/20 14:00	11/11/20 22:13	1

Client Sample ID: PE-TSP102020-B606UPWIND
Date Collected: 10/20/20 07:05
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Lab Sample ID: 570-42223-18
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/11/20 14:00	11/11/20 22:15	1
Lead	**4.23**	**J**	12.0	3.16	ug/Sample		11/11/20 14:00	11/11/20 22:15	1
Manganese	**28.8**	**B**	6.00	3.34	ug/Sample		11/11/20 14:00	11/11/20 22:15	1

Client Sample ID: PE-TSP102020-12ADOWNWIND
Date Collected: 10/20/20 07:15
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Lab Sample ID: 570-42223-19
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/11/20 14:00	11/11/20 22:17	1
Lead	**11.9**	**J**	12.0	3.16	ug/Sample		11/11/20 14:00	11/11/20 22:17	1
Manganese	**25.6**	**B**	6.00	3.34	ug/Sample		11/11/20 14:00	11/11/20 22:17	1

Client Sample ID: PE-TSP102120-B606UPWIND
Date Collected: 10/21/20 06:54
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Lab Sample ID: 570-42223-22
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/11/20 14:00	11/11/20 22:19	1
Lead	**10.8**	**J**	12.0	3.16	ug/Sample		11/11/20 14:00	11/11/20 22:19	1
Manganese	**43.3**	**B**	6.00	3.34	ug/Sample		11/11/20 14:00	11/11/20 22:19	1

Client Sample ID: PE-TSP102120-12ADOWNWIND
Date Collected: 10/21/20 07:06
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Lab Sample ID: 570-42223-23
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/11/20 14:00	11/11/20 22:21	1
Lead	**20.0**		12.0	3.16	ug/Sample		11/11/20 14:00	11/11/20 22:21	1
Manganese	**68.9**	**B**	6.00	3.34	ug/Sample		11/11/20 14:00	11/11/20 22:21	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP102220-B606UPWIND
Date Collected: 10/22/20 07:00
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Lab Sample ID: 570-42223-26
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/11/20 14:00	11/11/20 22:23	1
Lead	**5.78**	**J**	12.0	3.16	ug/Sample		11/11/20 14:00	11/11/20 22:23	1
Manganese	**46.2**	**B**	6.00	3.34	ug/Sample		11/11/20 14:00	11/11/20 22:23	1

Client Sample ID: PE-TSP102220-12ADOWNWIND
Date Collected: 10/22/20 07:11
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Lab Sample ID: 570-42223-27
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/11/20 14:00	11/11/20 22:25	1
Lead	**20.4**		12.0	3.16	ug/Sample		11/11/20 14:00	11/11/20 22:25	1
Manganese	**74.8**	**B**	6.00	3.34	ug/Sample		11/11/20 14:00	11/11/20 22:25	1

Client Sample ID: PE-TSP102320-B606UPWIND
Date Collected: 10/23/20 07:06
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Lab Sample ID: 570-42223-30
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/11/20 14:00	11/11/20 22:36	1
Lead	**12.6**		12.0	3.16	ug/Sample		11/11/20 14:00	11/11/20 22:36	1
Manganese	**72.1**	**B**	6.00	3.34	ug/Sample		11/11/20 14:00	11/11/20 22:36	1

Client Sample ID: PE-TSP102320-12ADOWNWIND
Date Collected: 10/23/20 07:17
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Lab Sample ID: 570-42223-31
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/11/20 14:00	11/11/20 22:38	1
Lead	**3.76**	**J**	12.0	3.16	ug/Sample		11/11/20 14:00	11/11/20 22:38	1
Manganese	**56.6**	**B**	6.00	3.34	ug/Sample		11/11/20 14:00	11/11/20 22:38	1

Client Sample ID: PE-TSP102420-B606UPWIND
Date Collected: 10/24/20 11:00
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Lab Sample ID: 570-42223-34
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/11/20 14:00	11/11/20 22:40	1
Lead	**5.15**	**J**	12.0	3.16	ug/Sample		11/11/20 14:00	11/11/20 22:40	1
Manganese	**28.3**	**B**	6.00	3.34	ug/Sample		11/11/20 14:00	11/11/20 22:40	1

Client Sample ID: PE-TSP102420-12ADOWNWIND
Date Collected: 10/24/20 09:50
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Lab Sample ID: 570-42223-35
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/11/20 14:00	11/11/20 22:42	1
Lead	ND		12.0	3.16	ug/Sample		11/11/20 14:00	11/11/20 22:42	1
Manganese	**12.9**	**B**	6.00	3.34	ug/Sample		11/11/20 14:00	11/11/20 22:42	1

General Chemistry

Client Sample ID: PE-TSP101920-B606UPWIND
Lab Sample ID: 570-42223-14
Date Collected: 10/19/20 06:59
Matrix: Air
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	48.4		5.62	5.62	ug/m3			11/03/20 11:14	1

Client Sample ID: PE-TSP101920-12ADOWNWIND
Lab Sample ID: 570-42223-15
Date Collected: 10/19/20 07:07
Matrix: Air
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	58.5		5.85	5.85	ug/m3			11/03/20 11:14	1

Client Sample ID: PE_PM10101920-B606UPWIND
Lab Sample ID: 570-42223-16
Date Collected: 10/19/20 06:59
Matrix: Air
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	21.7		5.62	5.62	ug/m3			11/11/20 10:00	1

Client Sample ID: PE_PM10101920-12ADOWNWIND
Lab Sample ID: 570-42223-17
Date Collected: 10/19/20 07:07
Matrix: Air
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	27.0		5.70	5.70	ug/m3			11/11/20 10:00	1

Client Sample ID: PE-TSP102020-B606UPWIND
Lab Sample ID: 570-42223-18
Date Collected: 10/20/20 07:05
Matrix: Air
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	58.8		5.69	5.69	ug/m3			11/03/20 11:14	1

Client Sample ID: PE-TSP102020-12ADOWNWIND
Lab Sample ID: 570-42223-19
Date Collected: 10/20/20 07:15
Matrix: Air
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	61.5		5.95	5.95	ug/m3			11/03/20 11:14	1

Client Sample ID: PE_PM10102020-B606UPWIND
Lab Sample ID: 570-42223-20
Date Collected: 10/20/20 07:05
Matrix: Air
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	34.4		5.69	5.69	ug/m3			11/11/20 10:00	1

Client Sample ID: PE_PM10102020-12ADOWNWIND
Lab Sample ID: 570-42223-21
Date Collected: 10/20/20 07:15
Matrix: Air
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	25.4		5.95	5.95	ug/m3			11/11/20 10:00	1

General Chemistry

Client Sample ID: PE-TSP102120-B606UPWIND
Lab Sample ID: 570-42223-22
Date Collected: 10/21/20 06:54
Matrix: Air
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	59.6		2.31	2.31	ug/m3			11/03/20 11:14	1

Client Sample ID: PE-TSP102120-12ADOWNWIND
Lab Sample ID: 570-42223-23
Date Collected: 10/21/20 07:06
Matrix: Air
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	66.2		2.31	2.31	ug/m3			11/03/20 11:14	1

Client Sample ID: PE_PM10102120-B606UPWIND
Lab Sample ID: 570-42223-24
Date Collected: 10/21/20 06:54
Matrix: Air
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	39.1		2.31	2.31	ug/m3			11/11/20 10:00	1

Client Sample ID: PE_PM10102120-12ADOWNWIND
Lab Sample ID: 570-42223-25
Date Collected: 10/21/20 07:06
Matrix: Air
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	40.4		2.31	2.31	ug/m3			11/11/20 10:00	1

Client Sample ID: PE-TSP102220-B606UPWIND
Lab Sample ID: 570-42223-26
Date Collected: 10/22/20 07:00
Matrix: Air
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	59.1		2.45	2.45	ug/m3			11/03/20 11:14	1

Client Sample ID: PE-TSP102220-12ADOWNWIND
Lab Sample ID: 570-42223-27
Date Collected: 10/22/20 07:11
Matrix: Air
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	74.2		2.52	2.52	ug/m3			11/03/20 11:14	1

Client Sample ID: PE_PM10102220-B606UPWIND
Lab Sample ID: 570-42223-28
Date Collected: 10/22/20 07:00
Matrix: Air
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	27.0		2.45	2.45	ug/m3			11/11/20 10:00	1

Client Sample ID: PE_PM10102220-12ADOWNWIND
Lab Sample ID: 570-42223-29
Date Collected: 10/22/20 07:11
Matrix: Air
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	33.5		2.45	2.45	ug/m3			11/11/20 10:00	1

General Chemistry

Client Sample ID: PE-TSP102320-B606UPWIND
Date Collected: 10/23/20 07:06
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Lab Sample ID: 570-42223-30
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	71.2		2.54	2.54	ug/m3			11/03/20 11:14	1

Client Sample ID: PE-TSP102320-12ADOWNWIND
Date Collected: 10/23/20 07:17
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Lab Sample ID: 570-42223-31
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	62.2		2.54	2.54	ug/m3			11/03/20 11:14	1

Client Sample ID: PE_PM10102320-B606UPWIND
Date Collected: 10/23/20 07:06
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Lab Sample ID: 570-42223-32
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	30.6		2.54	2.54	ug/m3			11/11/20 10:00	1

Client Sample ID: PE_PM10102320-12ADOWNWIND
Date Collected: 10/23/20 07:17
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Lab Sample ID: 570-42223-33
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	35.4		2.54	2.54	ug/m3			11/11/20 10:00	1

Client Sample ID: PE-TSP102420-B606UPWIND
Date Collected: 10/24/20 11:00
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Lab Sample ID: 570-42223-34
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	96.8		10.6	10.6	ug/m3			11/03/20 11:14	1

Client Sample ID: PE-TSP102420-12ADOWNWIND
Date Collected: 10/24/20 09:50
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Lab Sample ID: 570-42223-35
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	39.9		8.54	8.54	ug/m3			11/03/20 11:14	1

Client Sample ID: PE_PM10102420-B606UPWIND
Date Collected: 10/24/20 11:00
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Lab Sample ID: 570-42223-36
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	37.4		10.6	10.6	ug/m3			11/11/20 10:00	1

Client Sample ID: PE_PM10102420-12ADOWNWIND
Date Collected: 10/24/20 09:50
Date Received: 10/28/20 10:45
Sample Container: Folder/Filter

Lab Sample ID: 570-42223-37
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	19.6		8.54	8.54	ug/m3			11/11/20 10:00	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-108801/1-A
Matrix: Air
Analysis Batch: 109019

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108801

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/11/20 14:00	11/11/20 21:50	1
Lead	ND		12.0	3.16	ug/Sample		11/11/20 14:00	11/11/20 21:50	1
Manganese	3.564	J	6.00	3.34	ug/Sample		11/11/20 14:00	11/11/20 21:50	1

Lab Sample ID: LCS 570-108801/2-A
Matrix: Air
Analysis Batch: 109019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108801

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	600	571.3		ug/Sample		95	80 - 120
Lead	600	618.5		ug/Sample		103	80 - 120
Manganese	600	607.8		ug/Sample		101	80 - 120

Lab Sample ID: LCSD 570-108801/3-A
Matrix: Air
Analysis Batch: 109019

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108801

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	600	584.1		ug/Sample		97	80 - 120	2	20
Lead	600	620.1		ug/Sample		103	80 - 120	0	20
Manganese	600	603.4		ug/Sample		101	80 - 120	1	20

Lab Sample ID: 570-42223-14 MS
Matrix: Air
Analysis Batch: 109019

Client Sample ID: PE-TSP101920-B606UPWIND
Prep Type: Total/NA
Prep Batch: 108801

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		600	571.8		ug/Sample		95	75 - 125
Lead	3.61	J	600	613.1		ug/Sample		102	75 - 125
Manganese	21.0	B	600	611.8		ug/Sample		98	75 - 125

Lab Sample ID: 570-42223-14 MSD
Matrix: Air
Analysis Batch: 109019

Client Sample ID: PE-TSP101920-B606UPWIND
Prep Type: Total/NA
Prep Batch: 108801

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		600	536.4		ug/Sample		89	75 - 125	6	20
Lead	3.61	J	600	596.3		ug/Sample		99	75 - 125	3	20
Manganese	21.0	B	600	589.6		ug/Sample		95	75 - 125	4	20

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

Lab Sample ID: MB 570-106622/1-A
Matrix: Air
Analysis Batch: 106648

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			11/03/20 11:14	1

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

Lab Sample ID: 570-42223-14 DU
Matrix: Air
Analysis Batch: 106648

Client Sample ID: PE-TSP101920-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	48.4			48.36		ug/m3				0	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-108829/1
Matrix: Air
Analysis Batch: 108829

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			11/11/20 10:00	1

Lab Sample ID: 570-42223-16 DU
Matrix: Air
Analysis Batch: 108829

Client Sample ID: PE_PM10101920-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	21.7			21.74		ug/m3				0	25

Metals

Prep Batch: 108801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42223-14	PE-TSP101920-B606UPWIND	Total/NA	Air	3050B	
570-42223-15	PE-TSP101920-12ADOWNWIND	Total/NA	Air	3050B	
570-42223-18	PE-TSP102020-B606UPWIND	Total/NA	Air	3050B	
570-42223-19	PE-TSP102020-12ADOWNWIND	Total/NA	Air	3050B	
570-42223-22	PE-TSP102120-B606UPWIND	Total/NA	Air	3050B	
570-42223-23	PE-TSP102120-12ADOWNWIND	Total/NA	Air	3050B	
570-42223-26	PE-TSP102220-B606UPWIND	Total/NA	Air	3050B	
570-42223-27	PE-TSP102220-12ADOWNWIND	Total/NA	Air	3050B	
570-42223-30	PE-TSP102320-B606UPWIND	Total/NA	Air	3050B	
570-42223-31	PE-TSP102320-12ADOWNWIND	Total/NA	Air	3050B	
570-42223-34	PE-TSP102420-B606UPWIND	Total/NA	Air	3050B	
570-42223-35	PE-TSP102420-12ADOWNWIND	Total/NA	Air	3050B	
MB 570-108801/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-108801/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-108801/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-42223-14 MS	PE-TSP101920-B606UPWIND	Total/NA	Air	3050B	
570-42223-14 MSD	PE-TSP101920-B606UPWIND	Total/NA	Air	3050B	

Analysis Batch: 109019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42223-14	PE-TSP101920-B606UPWIND	Total/NA	Air	6010B	108801
570-42223-15	PE-TSP101920-12ADOWNWIND	Total/NA	Air	6010B	108801
570-42223-18	PE-TSP102020-B606UPWIND	Total/NA	Air	6010B	108801
570-42223-19	PE-TSP102020-12ADOWNWIND	Total/NA	Air	6010B	108801
570-42223-22	PE-TSP102120-B606UPWIND	Total/NA	Air	6010B	108801
570-42223-23	PE-TSP102120-12ADOWNWIND	Total/NA	Air	6010B	108801
570-42223-26	PE-TSP102220-B606UPWIND	Total/NA	Air	6010B	108801
570-42223-27	PE-TSP102220-12ADOWNWIND	Total/NA	Air	6010B	108801
570-42223-30	PE-TSP102320-B606UPWIND	Total/NA	Air	6010B	108801
570-42223-31	PE-TSP102320-12ADOWNWIND	Total/NA	Air	6010B	108801
570-42223-34	PE-TSP102420-B606UPWIND	Total/NA	Air	6010B	108801
570-42223-35	PE-TSP102420-12ADOWNWIND	Total/NA	Air	6010B	108801
MB 570-108801/1-A	Method Blank	Total/NA	Air	6010B	108801
LCS 570-108801/2-A	Lab Control Sample	Total/NA	Air	6010B	108801
LCSD 570-108801/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	108801
570-42223-14 MS	PE-TSP101920-B606UPWIND	Total/NA	Air	6010B	108801
570-42223-14 MSD	PE-TSP101920-B606UPWIND	Total/NA	Air	6010B	108801

General Chemistry

Pre Prep Batch: 106622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42223-14	PE-TSP101920-B606UPWIND	Total/NA	Air	Filter to Air	
570-42223-15	PE-TSP101920-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-42223-18	PE-TSP102020-B606UPWIND	Total/NA	Air	Filter to Air	
570-42223-19	PE-TSP102020-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-42223-22	PE-TSP102120-B606UPWIND	Total/NA	Air	Filter to Air	
570-42223-23	PE-TSP102120-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-42223-26	PE-TSP102220-B606UPWIND	Total/NA	Air	Filter to Air	
570-42223-27	PE-TSP102220-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-42223-30	PE-TSP102320-B606UPWIND	Total/NA	Air	Filter to Air	

General Chemistry (Continued)

Pre Prep Batch: 106622 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42223-31	PE-TSP102320-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-42223-34	PE-TSP102420-B606UPWIND	Total/NA	Air	Filter to Air	
570-42223-35	PE-TSP102420-12ADOWNWIND	Total/NA	Air	Filter to Air	
MB 570-106622/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-42223-14 DU	PE-TSP101920-B606UPWIND	Total/NA	Air	Filter to Air	

Analysis Batch: 106648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42223-14	PE-TSP101920-B606UPWIND	Total/NA	Air	40CFR50 App B	106622
570-42223-15	PE-TSP101920-12ADOWNWIND	Total/NA	Air	40CFR50 App B	106622
570-42223-18	PE-TSP102020-B606UPWIND	Total/NA	Air	40CFR50 App B	106622
570-42223-19	PE-TSP102020-12ADOWNWIND	Total/NA	Air	40CFR50 App B	106622
570-42223-22	PE-TSP102120-B606UPWIND	Total/NA	Air	40CFR50 App B	106622
570-42223-23	PE-TSP102120-12ADOWNWIND	Total/NA	Air	40CFR50 App B	106622
570-42223-26	PE-TSP102220-B606UPWIND	Total/NA	Air	40CFR50 App B	106622
570-42223-27	PE-TSP102220-12ADOWNWIND	Total/NA	Air	40CFR50 App B	106622
570-42223-30	PE-TSP102320-B606UPWIND	Total/NA	Air	40CFR50 App B	106622
570-42223-31	PE-TSP102320-12ADOWNWIND	Total/NA	Air	40CFR50 App B	106622
570-42223-34	PE-TSP102420-B606UPWIND	Total/NA	Air	40CFR50 App B	106622
570-42223-35	PE-TSP102420-12ADOWNWIND	Total/NA	Air	40CFR50 App B	106622
MB 570-106622/1-A	Method Blank	Total/NA	Air	40CFR50 App B	106622
570-42223-14 DU	PE-TSP101920-B606UPWIND	Total/NA	Air	40CFR50 App B	106622

Analysis Batch: 108829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42223-16	PE_PM10101920-B606UPWIND	Total/NA	Air	PM10	
570-42223-17	PE_PM10101920-12ADOWNWIND	Total/NA	Air	PM10	
570-42223-20	PE_PM10102020-B606UPWIND	Total/NA	Air	PM10	
570-42223-21	PE_PM10102020-12ADOWNWIND	Total/NA	Air	PM10	
570-42223-24	PE_PM10102120-B606UPWIND	Total/NA	Air	PM10	
570-42223-25	PE_PM10102120-12ADOWNWIND	Total/NA	Air	PM10	
570-42223-28	PE_PM10102220-B606UPWIND	Total/NA	Air	PM10	
570-42223-29	PE_PM10102220-12ADOWNWIND	Total/NA	Air	PM10	
570-42223-32	PE_PM10102320-B606UPWIND	Total/NA	Air	PM10	
570-42223-33	PE_PM10102320-12ADOWNWIND	Total/NA	Air	PM10	
570-42223-36	PE_PM10102420-B606UPWIND	Total/NA	Air	PM10	
570-42223-37	PE_PM10102420-12ADOWNWIND	Total/NA	Air	PM10	
MB 570-108829/1	Method Blank	Total/NA	Air	PM10	
570-42223-16 DU	PE_PM10101920-B606UPWIND	Total/NA	Air	PM10	

BALANCE CALIBRATION CHECK LOG

Eurofins Calscience

Date performed: 11/03/20 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	1.00	0.98 - 1.02	Y N	IO Lab
	100	99.98	98.00 - 102.00	Y N	
62	0.002	0.0018	0.0015 - 0.0025	Y N	IO Lab
	1	0.9994	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	99.98	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	1.01	0.98 - 1.02	Y N	IO Lab
	100	99.99	98.00 - 102.00	Y N	
	500	499.99	490.00 - 510.00	Y N	
71	0.002	0.0018	0.0015 - 0.0025	Y N	BOD Room
	1	0.9995	0.9990 - 1.0010	Y N	
	100	~~99~~ RVCP 99.9915	99.9000 - 100.1000	Y N	
63	0.1		0.08 - 0.12	Y N	BOD Room
	100		98.00 - 102.00	Y N	
73	0.1	0.09	0.08 - 0.12	Y N	Oil & Grease Room
	1	0.99	0.98 - 1.02	Y N	
	100	99.99	98.00 - 102.00	Y N	
87	0.002	0.0020	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	

BALANCE CALIBRATION CHECK LOG

Eurofins Calscience

Date performed: ~~11/12/20~~ 11/11/20 RUP Initials: RUP

ID	Class 2 Weight (g)	Reading (g)	Acceptance Range	Pass? (circle one)	Comment (If not passed, note removal or corrective action)
83	1	1.00	0.98 - 1.02	(Y) N	IO Lab
	100	99.99	98.00 - 102.00	(Y) N	
62	0.002	0.0016	0.0015 - 0.0025	(Y) N	IO Lab
	1	0.9991	0.9990 - 1.0010	(Y) N	
	100	100.0020	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	99.99	98.00 - 102.00	(Y) N	
	500	499.90	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	500.00	490.00 - 510.00	(Y) N	
71	0.002	0.0018	0.0015 - 0.0025	(Y) N	BOD Room
	1	0.9991	0.9990 - 1.0010	(Y) N	
	100	99.9906	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	100.00	98.00 - 102.00	(Y) N	
87	0.002	0.0020	0.0015 - 0.0025	(Y) N	Solids Room
	1	0.9990	0.9990 - 1.0010	(Y) N	
	100	99.9908	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: 570-42223-1

Client Sample ID: PE-TSP101920-B606UPWIND
Lab Sample ID: 570-42223-14
Date Collected: 10/19/20 06:59
Matrix: Air
Date Received: 10/28/20 10:45

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	108801	11/11/20 14:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109019	11/11/20 22:07	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					106622	11/03/20 11:14	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			106648	11/03/20 11:14	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP101920-12ADOWNWIND
Lab Sample ID: 570-42223-15
Date Collected: 10/19/20 07:07
Matrix: Air
Date Received: 10/28/20 10:45

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	108801	11/11/20 14:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109019	11/11/20 22:13	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					106622	11/03/20 11:14	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			106648	11/03/20 11:14	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10101920-B606UPWIND
Lab Sample ID: 570-42223-16
Date Collected: 10/19/20 06:59
Matrix: Air
Date Received: 10/28/20 10:45

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	4.3423 g	4.3539 g	108829	11/11/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10101920-12ADOWNWIND
Lab Sample ID: 570-42223-17
Date Collected: 10/19/20 07:07
Matrix: Air
Date Received: 10/28/20 10:45

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	4.3252 g	4.3394 g	108829	11/11/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP102020-B606UPWIND
Lab Sample ID: 570-42223-18
Date Collected: 10/20/20 07:05
Matrix: Air
Date Received: 10/28/20 10:45

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	108801	11/11/20 14:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109019	11/11/20 22:15	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					106622	11/03/20 11:14	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			106648	11/03/20 11:14	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-42223-1

Client Sample ID: PE-TSP102020-12ADOWNWIND
Lab Sample ID: 570-42223-19
Date Collected: 10/20/20 07:15
Matrix: Air
Date Received: 10/28/20 10:45

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	108801	11/11/20 14:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109019	11/11/20 22:17	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					106622	11/03/20 11:14	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			106648	11/03/20 11:14	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10102020-B606UPWIND
Lab Sample ID: 570-42223-20
Date Collected: 10/20/20 07:05
Matrix: Air
Date Received: 10/28/20 10:45

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	4.3069 g	4.3250 g	108829	11/11/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10102020-12ADOWNWIND
Lab Sample ID: 570-42223-21
Date Collected: 10/20/20 07:15
Matrix: Air
Date Received: 10/28/20 10:45

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	4.3606 g	4.3734 g	108829	11/11/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP102120-B606UPWIND
Lab Sample ID: 570-42223-22
Date Collected: 10/21/20 06:54
Matrix: Air
Date Received: 10/28/20 10:45

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	108801	11/11/20 14:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109019	11/11/20 22:19	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					106622	11/03/20 11:14	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			106648	11/03/20 11:14	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP102120-12ADOWNWIND
Lab Sample ID: 570-42223-23
Date Collected: 10/21/20 07:06
Matrix: Air
Date Received: 10/28/20 10:45

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	108801	11/11/20 14:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109019	11/11/20 22:21	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					106622	11/03/20 11:14	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			106648	11/03/20 11:14	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-42223-1

Client Sample ID: PE_PM10102120-B606UPWIND
Lab Sample ID: 570-42223-24
Date Collected: 10/21/20 06:54
Matrix: Air
Date Received: 10/28/20 10:45

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	4.3181 g	4.3688 g	108829	11/11/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10102120-12ADOWNWIND
Lab Sample ID: 570-42223-25
Date Collected: 10/21/20 07:06
Matrix: Air
Date Received: 10/28/20 10:45

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	4.3721 g	4.4244 g	108829	11/11/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP102220-B606UPWIND
Lab Sample ID: 570-42223-26
Date Collected: 10/22/20 07:00
Matrix: Air
Date Received: 10/28/20 10:45

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	108801	11/11/20 14:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109019	11/11/20 22:23	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					106622	11/03/20 11:14	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			106648	11/03/20 11:14	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP102220-12ADOWNWIND
Lab Sample ID: 570-42223-27
Date Collected: 10/22/20 07:11
Matrix: Air
Date Received: 10/28/20 10:45

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	108801	11/11/20 14:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109019	11/11/20 22:25	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					106622	11/03/20 11:14	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			106648	11/03/20 11:14	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10102220-B606UPWIND
Lab Sample ID: 570-42223-28
Date Collected: 10/22/20 07:00
Matrix: Air
Date Received: 10/28/20 10:45

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	4.3741 g	4.4071 g	108829	11/11/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10102220-12ADOWNWIND
Lab Sample ID: 570-42223-29
Date Collected: 10/22/20 07:11
Matrix: Air
Date Received: 10/28/20 10:45

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	4.3378 g	4.3787 g	108829	11/11/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP102320-B606UPWIND
Lab Sample ID: 570-42223-30
Date Collected: 10/23/20 07:06
Matrix: Air
Date Received: 10/28/20 10:45

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	108801	11/11/20 14:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109019	11/11/20 22:36	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					106622	11/03/20 11:14	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			106648	11/03/20 11:14	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP102320-12ADOWNWIND
Lab Sample ID: 570-42223-31
Date Collected: 10/23/20 07:17
Matrix: Air
Date Received: 10/28/20 10:45

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	108801	11/11/20 14:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109019	11/11/20 22:38	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					106622	11/03/20 11:14	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			106648	11/03/20 11:14	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10102320-B606UPWIND
Lab Sample ID: 570-42223-32
Date Collected: 10/23/20 07:06
Matrix: Air
Date Received: 10/28/20 10:45

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	4.3067 g	4.3429 g	108829	11/11/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10102320-12ADOWNWIND
Lab Sample ID: 570-42223-33
Date Collected: 10/23/20 07:17
Matrix: Air
Date Received: 10/28/20 10:45

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	4.3363 g	4.3781 g	108829	11/11/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-42223-1

Client Sample ID: PE-TSP102420-B606UPWIND
Lab Sample ID: 570-42223-34
Date Collected: 10/24/20 11:00
Matrix: Air
Date Received: 10/28/20 10:45

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	108801	11/11/20 14:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109019	11/11/20 22:40	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					106622	11/03/20 11:14	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			106648	11/03/20 11:14	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP102420-12ADOWNWIND
Lab Sample ID: 570-42223-35
Date Collected: 10/24/20 09:50
Matrix: Air
Date Received: 10/28/20 10:45

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	108801	11/11/20 14:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109019	11/11/20 22:42	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					106622	11/03/20 11:14	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			106648	11/03/20 11:14	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10102420-B606UPWIND
Lab Sample ID: 570-42223-36
Date Collected: 10/24/20 11:00
Matrix: Air
Date Received: 10/28/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3843 g	4.3949 g	108829	11/11/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10102420-12ADOWNWIND
Lab Sample ID: 570-42223-37
Date Collected: 10/24/20 09:50
Matrix: Air
Date Received: 10/28/20 10:45

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	4.3258 g	4.3327 g	108829	11/11/20 10:00	UAPD	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: 570-42223-1

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: 570-42223-1

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: 570-42223-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-42223-1	PE-ASB101920-B606UPWIND	Air	10/19/20 07:08	10/28/20 10:45	
570-42223-2	PE-ASB101920-12ADOWNWIND	Air	10/19/20 07:16	10/28/20 10:45	
570-42223-3	PE-ASB102020-B606UPWIND	Air	10/20/20 07:01	10/28/20 10:45	
570-42223-4	PE-ASB102020-12ADOWNWIND	Air	10/20/20 07:11	10/28/20 10:45	
570-42223-5	PE-ASB102120-B606UPWIND	Air	10/21/20 07:04	10/28/20 10:45	
570-42223-6	PE-ASB102120-12ADOWNWIND	Air	10/21/20 07:15	10/28/20 10:45	
570-42223-7	PE-ASB102220-B606UPWIND	Air	10/22/20 07:01	10/28/20 10:45	
570-42223-8	PE-ASB102220-12ADOWNWIND	Air	10/22/20 07:11	10/28/20 10:45	
570-42223-9	PE-ASB102320-B606UPWIND	Air	10/23/20 07:04	10/28/20 10:45	
570-42223-10	PE-ASB102320-12ADOWNWIND	Air	10/23/20 07:11	10/28/20 10:45	
570-42223-11	PE-ASB102420-B606UPWIND	Air	10/24/20 09:41	10/28/20 10:45	
570-42223-12	PE-ASB102420-12ADOWNWIND	Air	10/24/20 09:50	10/28/20 10:45	
570-42223-13	PE-ASB102320-BLANK	Air	10/23/20 07:04	10/28/20 10:45	
570-42223-14	PE-TSP101920-B606UPWIND	Air	10/19/20 06:59	10/28/20 10:45	
570-42223-15	PE-TSP101920-12ADOWNWIND	Air	10/19/20 07:07	10/28/20 10:45	
570-42223-16	PE_PM10101920-B606UPWIND	Air	10/19/20 06:59	10/28/20 10:45	
570-42223-17	PE_PM10101920-12ADOWNWIND	Air	10/19/20 07:07	10/28/20 10:45	
570-42223-18	PE-TSP102020-B606UPWIND	Air	10/20/20 07:05	10/28/20 10:45	
570-42223-19	PE-TSP102020-12ADOWNWIND	Air	10/20/20 07:15	10/28/20 10:45	
570-42223-20	PE_PM10102020-B606UPWIND	Air	10/20/20 07:05	10/28/20 10:45	
570-42223-21	PE_PM10102020-12ADOWNWIND	Air	10/20/20 07:15	10/28/20 10:45	
570-42223-22	PE-TSP102120-B606UPWIND	Air	10/21/20 06:54	10/28/20 10:45	
570-42223-23	PE-TSP102120-12ADOWNWIND	Air	10/21/20 07:06	10/28/20 10:45	
570-42223-24	PE_PM10102120-B606UPWIND	Air	10/21/20 06:54	10/28/20 10:45	
570-42223-25	PE_PM10102120-12ADOWNWIND	Air	10/21/20 07:06	10/28/20 10:45	
570-42223-26	PE-TSP102220-B606UPWIND	Air	10/22/20 07:00	10/28/20 10:45	
570-42223-27	PE-TSP102220-12ADOWNWIND	Air	10/22/20 07:11	10/28/20 10:45	
570-42223-28	PE_PM10102220-B606UPWIND	Air	10/22/20 07:00	10/28/20 10:45	
570-42223-29	PE_PM10102220-12ADOWNWIND	Air	10/22/20 07:11	10/28/20 10:45	
570-42223-30	PE-TSP102320-B606UPWIND	Air	10/23/20 07:06	10/28/20 10:45	
570-42223-31	PE-TSP102320-12ADOWNWIND	Air	10/23/20 07:17	10/28/20 10:45	
570-42223-32	PE_PM10102320-B606UPWIND	Air	10/23/20 07:06	10/28/20 10:45	
570-42223-33	PE_PM10102320-12ADOWNWIND	Air	10/23/20 07:17	10/28/20 10:45	
570-42223-34	PE-TSP102420-B606UPWIND	Air	10/24/20 11:00	10/28/20 10:45	
570-42223-35	PE-TSP102420-12ADOWNWIND	Air	10/24/20 09:50	10/28/20 10:45	
570-42223-36	PE_PM10102420-B606UPWIND	Air	10/24/20 11:00	10/28/20 10:45	
570-42223-37	PE_PM10102420-12ADOWNWIND	Air	10/24/20 09:50	10/28/20 10:45	

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: 332019360
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: 10/29/2020 12:00 PM
Analysis Date: 11/09/2020
Collected Date: 10/19/2020 - 10/24/2020

Project: HPNS - Parcel E / 500712 / 570-42223

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-ASB101920-B606UPWIND (570-42223-1) *332019360-0001*		10/19/2020	2110	6.5	100	0.0012	8.28	0.0015	
PE-ASB101920-12ADOWNWIND (570-42223-2) *332019360-0002*		10/19/2020	1890	<5.5	100	0.0021	<7.01	<0.0021	Sample pulled for 10% duplicate count
PE-ASB102020-B606UPWIND (570-42223-3) *332019360-0003*		10/20/2020	1960	<5.5	100	0.0021	<7.01	<0.0021	
PE-ASB102020-12ADOWNWIND (570-42223-4) *332019360-0004*		10/20/2020	920	<5.5	100	0.0014	<7.01	<0.0014	
PE-ASB102120-B606UPWIND (570-42223-5) *332019360-0005*		10/21/2020	2880	5.5	100	0.0018	7.01	0.0018	
PE-ASB102120-12ADOWNWIND (570-42223-6) *332019360-0006*		10/21/2020	2890	<5.5	100	0.0014	<7.01	<0.0014	
PE-ASB102220-B606UPWIND (570-42223-7) *332019360-0007*		10/22/2020	2830	6	100	0.0015	7.64	0.0016	
PE-ASB102220-12ADOWNWIND (570-42223-8) *332019360-0008*		10/22/2020	2620	<5.5	100	0.0030	<7.01	<0.0030	
PE-ASB102320-B606UPWIND (570-42223-9) *332019360-0009*		10/23/2020	2090	<5.5	100	0.0013	<7.01	<0.0013	
PE-ASB102320-12ADOWNWIND (570-42223-10) *332019360-0010*		10/23/2020	2100	<5.5	100	0.0013	<7.01	<0.0013	
PE-ASB102420-B606UPWIND (570-42223-11) *332019360-0011*		10/24/2020	700	<5.5	100	0.0041	<7.01	<0.0041	
PE-ASB102420-12ADOWNWIND (570-42223-12) *332019360-0012*		10/24/2020	600	<5.5	100	0.0043	<7.01	<0.0043	Sample pulled for 10% duplicate count
PE-ASB102320-BLANK (570-42223-13)		10/23/2020		<5.5	100		<7.01		Field Blank

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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

Report Amended: 12/03/2020 01:34 PM Replaces initial report from: 11/09/2020 11:58 AM Reason Code Client-Change to Sample Volume

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: 332019360
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: 10/29/2020 12:00 PM
Analysis Date: 11/09/2020
Collected Date: 10/19/2020 - 10/24/2020

Project: HPNS - Parcel E / 500712 / 570-42223

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*
332019360-0013									
PE-ASB101920-12ADOW NWIND (570-42223-2) Dup		10/19/2020	1890	<5.5	100	0.0021	<7.01	<0.0021	10% duplicate count
332019360-0014									
PE-ASB102420-12ADOW NWIND (570-42223-12) Dup		10/24/2020	600	<5.5	100	0.0045	<7.01	<0.0045	10% duplicate count
332019360-0015									

The results reported have been blank corrected as applicable.

Analyst(s):
Brian Magumcia PCM 15

Michael Chapman, Laboratory Manager
or other Approved Signatory

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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

Report Amended: 12/03/2020 01:34 PM Replaces initial report from: 11/09/2020 11:58 AM Reason Code Client-Change to Sample Volume

42223

APTIM 570-42223 Chain of Custody

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 031

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	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-ASB101920-B606UPWIND	CW558367	10/19/20	7:08	G	A	1	PCM			X			2.00	2.18			
2	PE-ASB101920-12ADOWNWIND	CW559349	10/19/20	7:16	G	A	1	PCM			X			2.00	1.28			
3	PE-ASB102020-B606UPWIND	CW559302	10/20/20	7:01	G	A	1	PCM			X			2.00	1.31			
4	PE-ASB102020-12ADOWNWIND	CW559420	10/20/20	7:11	G	A	1	PCM			X			2.00	1.92			
5	PE-ASB102120-B606UPWIND	CW559298	10/21/20	7:04	G	A	1	PCM			X			2.00	1.48			
6	PE-ASB102120-12ADOWNWIND	CW559431	10/21/20	7:15	G	A	1	PCM			X			2.00	1.98			
7	PE-ASB102220-B606UPWIND	CW559328	10/22/20	7:01	G	A	1	PCM			X			2.00	1.82			
8	PE-ASB102220-12ADOWNWIND	CW559287	10/22/20	7:11	G	A	1	PCM			X			2.00	0.91			
9	PE-ASB102320-B606UPWIND	CW559314	10/23/20	7:04	G	A	1	PCM			X			2.00	2.09			
10	PE-ASB102320-12ADOWNWIND	CW559395	10/23/20	7:11	G	A	1	PCM			X			2.00	2.10			
11	PE-ASB102420-B606UPWIND	CW559269	10/24/20	9:41	G	A	1	PCM			X			2.00	0.66			
12	PE-ASB102420-12ADOWNWIND	CW559286	10/24/20	9:50	G	A	1	PCM			X			2.00	0.62			
13	PE-ASB102320-BLANK	CW559353	10/23/20	7:04	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	10/23/20	1630	Lock & Storage	10/24/20	1630
Lock & storage	10/27/20	0830	Edgar Ruiz	10/27/20	0830
Edgar Ruiz	10/27/20	1150	Mark Valentini	10/27/20	1150
7644 TO 650	10/27/20	650		10/28/2020	1034

Method Codes

C = Composite G = Grab

Matrix Codes

DW = Drinking Water SL = Sludge

GW = Ground Water CP = Chip Samples

WW = Waste Water SO = Soil

A=Air

ABS=Asbestos, PO=Pipe Openning

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 031

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

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

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

edgar.ruiz@aptim.com

Sampler's Name(s): ER

	Sample ID Number	Lot No.	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	Analyses Requested: PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOS	Flow Rate (L/min.)	Sample Volume (m^3)			
14	PE-TSP101920-B606UPWIND	Q0409146	10/19/20	6:59	G	A	1	8X10 EPM Whatman					X	1132.8	533.5			
15	PE-TSP101920-12ADOWNWIND	Q0409148	10/19/20	7:07	G	A	1	8X10 EPM Whatman					X	1132.8	513.2			
16	PE_PM10101920-B606UPWIND	Q0409147	10/19/20	6:59	G	A	1	8X10 EPM Whatman				X		1132.8	533.5			
17	PE_PM10101920-12ADOWNWIND	Q0409149	10/19/20	7:07	G	A	1	8X10 EPM Whatman				X		1161.1	526.0			
18	PE-TSP102020-B606UPWIND	Q0409154	10/20/20	7:05	G	A	1	8X10 EPM Whatman					X	1132.8	526.8			
19	PE-TSP102020-12ADOWNWIND	Q0409156	10/20/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.8	504.1			
20	PE_PM10102020-B606UPWIND	Q0409155	10/20/20	7:05	G	A	1	8X10 EPM Whatman				X		1132.8	526.8			
21	PE_PM10102020-12ADOWNWIND	Q0409157	10/20/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.8	504.1			
22	PE-TSP102120-B606UPWIND	Q0409158	10/21/20	6:54	G	A	1	8X10 EPM Whatman					X	1132.8	1298.2			
23	PE-TSP102120-12ADOWNWIND	Q0409160	10/22/20	7:06	G	A	1	8X10 EPM Whatman					X	1132.8	1295.9			
24	PE_PM10102120-B606UPWIND	Q0409159	10/21/20	6:54	G	A	1	8X10 EPM Whatman				X		1132.8	1298.2			
25	PE_PM10102120-12ADOWNWIND	Q0409161	10/21/20	7:06	G	A	1	8X10 EPM Whatman				X		1132.8	1295.9			
26	PE-TSP102220-B606UPWIND	Q0409170	10/22/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.8	1223.4			
27	PE-TSP102220-12ADOWNWIND	Q0409172	10/22/20	7:11	G	A	1	8X10 EPM Whatman					X	1104.5	1191.7			
28	PE_PM10102220-B606UPWIND	Q0409171	10/22/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.8	1223.4			
29	PE_PM10102220-12ADOWNWIND	Q0409173	10/22/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.8	1222.3			
30	PE-TSP102320-B606UPWIND	Q0409178	10/23/20	7:06	G	A	1	8X10 EPM Whatman					X	1132.8	1182.6			
31	PE-TSP102320-12ADOWNWIND	Q0409180	10/23/20	7:17	G	A	1	8X10 EPM Whatman					X	1132.8	1181.5			
32	PE_PM10102320-B606UPWIND	Q0409179	10/23/20	7:06	G	A	1	8X10 EPM Whatman				X		1132.8	1182.6			
33	PE_PM10102320-12ADOWNWIND	Q0409181	10/23/20	7:17	G	A	1	8X10 EPM Whatman				X		1132.8	1181.5			
34	PE-TSP102420-B606UPWIND	Q0409187	10/24/20	11:00	G	A	1	8X10 EPM Whatman					X	1132.8	283.2			
35	PE-TSP102420-12ADOWNWIND	Q0409189	10/24/20	9:50	G	A	1	8X10 EPM Whatman					X	1132.8	351.2			
36	PE_PM10102420-B606UPWIND	Q0409188	10/24/20	11:00	G	A	1	8X10 EPM Whatman				X		1132.8	283.2			
37	PE_PM10102420-12ADOWNWIND	Q0409190	10/24/20	9:50	G	A	1	8X10 EPM Whatman				X		1132.8	351.2			

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AIR MONITORING LOG

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

STATION COC# 031

SAMPLE NO. PE-ASB101920-B606UPWIND 10/19/2020 *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				
CW558367	2.000	2.000	2.000	10/19/20 07:08	10/20/20 01:16	1088	2.18	Asbestos	2.00

SAMPLE NO. PE-ASB101920-12ADOWNWIND 10/19/2020 *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				
CW559349	2.000	2.000	2.000	10/19/20 07:16	10/19/20 17:57	641	1.28	Asbestos	2.00

SAMPLE NO. PE-ASB102020-B606UPWIND 10/20/2020 *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				
CW559302	2.000	2.000	2.000	10/19/20 07:01	10/19/20 17:56	655	1.31	Asbestos	2.00

SAMPLE NO. PE-ASB102020-12ADOWNWIND 10/20/2020 *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				
CW559420	2.000	2.000	2.000	10/19/20 07:11	10/19/20 23:12	961	1.92	Asbestos	2.00

SAMPLE NO. PE-ASB102120-B606UPWIND 10/21/2020 *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				
CW559298	2.000	2.000	2.000	10/21/20 07:04	10/21/20 19:25	741	1.48	Asbestos	2.00

SAMPLE NO. PE-ASB102120-12ADOWNWIND 10/21/2020 *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				
CW559431	2.000	2.000	2.000	10/21/20 07:15	10/21/20 23:43	988	1.98	Asbestos	2.00

SAMPLE NO. PE-ASB102220-B606UPWIND 10/22/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW559328	2.000	2.000	2.000	10/22/20 07:01	10/22/20 22:09	908	1.82	Asbestos	2.00

SAMPLE NO. PE-ASB102220-12ADOWNWIND 10/22/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW559287	2.000	2.000	2.000	10/22/20 07:11	10/22/20 14:45	454	0.91	Asbestos	2.00

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SAMPLE NO.	PE-ASB102320-B606UPWIND			10/23/2020 *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				
CW559314	2.000	2.000	2.000	10/23/20 07:04	10/24/20 00:30	1046	2.09	Asbestos	2.00

SAMPLE NO.	PE-ASB102320-12ADOWNWIND			10/23/2020 *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				
CW559395	2.000	2.000	2.0	10/23/20 07:11	10/24/20 00:40	1049	2.10	Asbestos	2.00

SAMPLE NO.	PE-ASB102420-B606UPWIND			10/24/2020 *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				
CW559269	2.000	2.000	2.0	10/24/20 09:41	10/24/20 15:10	329	0.7	Asbestos	2.00

SAMPLE NO.	PE-ASB102420-12ADOWNWIND			10/24/2020 *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				
CW559286	2.000	2.000	2.0	10/24/20 09:50	10/24/20 15:00	310	0.6	Asbestos	2.00

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

STATION COC# 031

SAMPLE NO. PE-TSP101920-B606UPWIND 10/19/2020 *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				
Q0409146	40.0	40.0	40.0	10/19/20 06:59	10/19/20 14:50	471	533.5	TSP	1132.80

SAMPLE NO. PE-TSP101920-12ADOWNWIND 10/19/2020 *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				
Q0409148	40.0	40.0	40.0	10/19/20 07:07	10/19/20 14:40	453	513.2	TSP	1132.80

SAMPLE NO. PE_PM10101920-B606UPWIND 10/19/2020 *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				
Q0409147	40.0	40.0	40.0	10/19/20 06:59	10/19/20 14:50	471	533.5	PM-10	1132.80

SAMPLE NO. PE_PM10101920-12ADOWNWIND 10/19/2020 *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				
Q0409149	41.0	41.0	41.0	10/19/20 07:07	10/19/20 14:40	453	526.0	PM-10	1161.12

SAMPLE NO. PE-TSP102020-B606UPWIND 10/20/2020 *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				
Q0409154	40.0	40.0	40.0	10/20/20 07:05	10/20/20 14:50	465	526.8	TSP	1132.80

SAMPLE NO. PE-TSP102020-12ADOWNWIND 10/20/2020 *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				
Q0409156	40.0	40.0	40.0	10/20/20 07:15	10/20/20 14:40	445	504.1	TSP	1132.80

SAMPLE NO. PE_PM10102020-B606UPWIND 10/20/2020 *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				
Q0409155	40.0	40.0	40.0	10/20/20 07:05	10/20/20 14:50	465	526.8	PM-10	1132.80

SAMPLE NO. PE_PM10102020-12ADOWNWIND 10/20/2020 *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				
Q0409157	40.0	40.0	40.0	10/20/20 07:15	10/20/20 14:40	445	504.1	PM-10	1132.80

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SAMPLE NO. PE-TSP102120-B606UPWIND 10/21/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409158	40.0	40.0	40.0	10/21/20 06:54	10/22/20 02:00	1146	1298.2	TSP	1132.80

SAMPLE NO. PE-TSP102120-12ADOWNWIND 10/21/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409160	40.0	40.0	40.0	10/21/20 07:06	10/22/20 02:10	1144	1295.9	TSP	1132.80

SAMPLE NO. PE_PM10102120-B606UPWIND 10/21/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409159	40.0	40.0	40.0	10/21/20 06:54	10/22/20 02:00	1146	1298.2	PM-10	1132.80

SAMPLE NO. PE_PM10102120-12ADOWNWIND 10/21/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409161	40.0	40.0	40.0	10/21/20 07:06	10/22/20 02:10	1144	1295.9	PM-10	1132.80

SAMPLE NO. PE-TSP102220-B606UPWIND 10/22/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409170	40.0	40.0	40.0	10/22/20 07:00	10/23/20 01:00	1080	1223.4	TSP	1132.80

SAMPLE NO. PE-TSP102220-12ADOWNWIND 10/22/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409172	39.0	39.0	39.0	10/22/20 07:11	10/23/20 01:10	1079	1191.7	TSP	1104.48

SAMPLE NO. PE_PM10102220-B606UPWIND 10/22/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409171	40.0	40.0	40.0	10/22/20 07:00	10/23/20 01:00	1080	1223.4	PM-10	1132.80

SAMPLE NO. PE_PM10102220-12ADOWNWIND 10/22/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409173	40.0	40.0	40.0	10/22/20 07:11	10/23/20 01:10	1079	1222.3	PM-10	1132.80

SAMPLE NO. PE-TSP102320-B606UPWIND 10/23/2020 *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				

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Q0409178	40.0	40.0	40.0	10/23/20 07:06	10/24/20 00:30	1044	1182.6	TSP	1132.80

SAMPLE NO. PE-TSP102320-12ADOWNWIND 10/23/2020 *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				
Q0409180	40.0	40.0	40.0	10/23/20 07:17	10/24/20 00:40	1043	1181.5	TSP	1132.80

SAMPLE NO. PE_PM10102320-B606UPWIND 10/23/2020 *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				
Q0409179	40.0	40.0	40.0	10/23/20 07:06	10/24/20 00:30	1044	1182.6	PM-10	1132.80

SAMPLE NO. PE_PM10102320-12ADOWNWIND 10/23/2020 *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				
Q0409181	40.0	40.0	40.0	10/23/20 07:17	10/24/20 00:40	1043	1181.5	PM-10	1132.80

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APTIM 570-42223 Chain of Custody

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 031

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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

ER 12/3/20

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

Analyses Requested — ER 12/3/20

	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)			
1	PE-ASB101920-B606UPWIND	CW558367	10/19/20	~~7:08~~ 6:59	G	A	1	PCM			X			2.00	~~2.18~~ 2.11			
2	PE-ASB101920-12ADOWNWIND	CW559349	10/19/20	~~7:16~~ 7:07	G	A	1	PCM			X			2.00	~~1.28~~ 1.89			
3	PE-ASB102020-B606UPWIND	CW559302	10/20/20	~~7:01~~ 7:05	G	A	1	PCM			X			2.00	~~1.31~~ 1.96			
4	PE-ASB102020-12ADOWNWIND	CW559420	10/20/20	~~7:11~~ 7:15	G	A	1	PCM			X			2.00	1.92 .92			
5	PE-ASB102120-B606UPWIND	CW559298	10/21/20	~~7:04~~ 6:59	G	A	1	PCM			X			2.00	~~1.48~~ 2.88			
6	PE-ASB102120-12ADOWNWIND	CW559431	10/21/20	~~7:15~~ 7:06	G	A	1	PCM			X			2.00	~~1.98~~ 2.89			
7	PE-ASB102220-B606UPWIND	CW559328	10/22/20	~~7:01~~ 7:00	G	A	1	PCM			X			2.00	~~1.82~~ 2.83			
8	PE-ASB102220-12ADOWNWIND	CW559287	10/22/20	7:11	G	A	1	PCM			X			2.00	~~0.91~~ 2.62			
9	PE-ASB102320-B606UPWIND	CW559314	10/23/20	~~7:04~~ 7:06	G	A	1	PCM			X			2.00	2.09			
10	PE-ASB102320-12ADOWNWIND	CW559395	10/23/20	~~7:11~~ 7:17	G	A	1	PCM			X			2.00	2.10			
11	PE-ASB102420-B606UPWIND	CW559269	10/24/20	9:41	G	A	1	PCM			X			2.00	~~0.66~~ .70			
12	PE-ASB102420-12ADOWNWIND	CW559286	10/24/20	9:50	G	A	1	PCM			X			2.00	~~0.62~~ .60			
13	PE-ASB102320-BLANK	CW559353	10/23/20	~~7:04~~ 9:41	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 — *Edgar Ruiz* — Date: 10/23/20 Time: 1630
Received By: Lock & Storage — Date: 10/24/20 Time: 1630

Relinquished By: Lock & Storage — Date: 10/27/20 Time: 0830
Received By: Edgar Ruiz — *Edgar Ruiz* — Date: 10/27/20 Time: 0830

Relinquished By: Edgar Ruiz — *Edgar Ruiz* — Date: 10/27/20 Time: 1150
Received By: Mark Valentini — EET — Date: 10/27/20 Time: 1150

Relinquished By: [illegible] TO 650 — Date: 10/27/20 Time: 1600
Received By: [illegible] — Date: 10/28/2020 Time: 1045

Method Codes
C = Composite
G = Grab

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

ABS = Asbestos, PO = Pipe Openning

AIR MONITORING LOG

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

STATION **COC# 031**

SAMPLE NO. **PE-ASB101920-B606UPWIND** 10/19/2020 *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				
CW558367	2.000	2.000	2.000	10/19/20 06:59	10/20/20 00:36	1057	2.11	Asbestos	2.00

SAMPLE NO. **PE-ASB101920-12ADOWNWIND** 10/19/2020 *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				
CW559349	2.000	2.000	2.000	10/19/20 07:07	10/19/20 22:52	945	1.89	Asbestos	2.00

SAMPLE NO. **PE-ASB102020-B606UPWIND** 10/20/2020 *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				
CW559302	2.000	2.000	2.000	10/19/20 07:05	10/19/20 23:27	982	1.96	Asbestos	2.00

SAMPLE NO. **PE-ASB102020-12ADOWNWIND** 10/20/2020 *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				
CW559420	2.000	2.000	2.000	10/19/20 07:15	10/19/20 14:57	462	0.92	Asbestos	2.00

SAMPLE NO. **PE-ASB102120-B606UPWIND** 10/21/2020 *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				
CW559298	2.000	2.000	2.000	10/21/20 06:59	10/22/20 07:00	1441	2.88	Asbestos	2.00

SAMPLE NO. **PE-ASB102120-12ADOWNWIND** 10/21/2020 *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				
CW559431	2.000	2.000	2.000	10/21/20 07:06	10/22/20 07:11	1445	2.89	Asbestos	2.00

SAMPLE NO. **PE-ASB102220-B606UPWIND** 10/22/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW559328	2.000	2.000	2.000	10/22/20 07:00	10/23/20 06:35	1415	2.83	Asbestos	2.00

SAMPLE NO. **PE-ASB102220-12ADOWNWIND** 10/22/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW559287	2.000	2.000	2.000	10/22/20 07:11	10/23/20 05:01	1310	2.62	Asbestos	2.00

SAMPLE NO.	PE-ASB102320-B606UPWIND			10/23/2020 *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				
CW559314	2.000	2.000	2.000	10/23/20 07:04	10/24/20 00:30	1046	2.09	Asbestos	2.00

SAMPLE NO.	PE-ASB102320-12ADOWNWIND			10/23/2020 *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				
CW559395	2.000	2.000	2.0	10/23/20 07:11	10/24/20 00:40	1049	2.10	Asbestos	2.00

SAMPLE NO.	PE-ASB102420-B606UPWIND			10/24/2020 *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				
CW559269	2.000	2.000	2.0	10/24/20 09:41	10/24/20 15:10	329	0.7	Asbestos	2.00

SAMPLE NO.	PE-ASB102420-12ADOWNWIND			10/24/2020 *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				
CW559286	2.000	2.000	2.0	10/24/20 09:50	10/24/20 15:00	310	0.6	Asbestos	2.00

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42223

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 #: 550950479

NPS

GARDEN GROVE

S92841A

29591002

570-42223 Waybill

ORC CA927-CL0

Print Date: 10/27/2020 2:12 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.

1342999

eurofins | Environment Testing TestAmerica

Custody Seal

DATE 10/27/20

SIGNATURE

eurofins | Environment Testing TestAmerica

1342999

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-42223-1

Login Number: 42223
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: 570-42852-1
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:
12/3/2020 3:27:56 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: 570-42852-1

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

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

Job ID: 570-42852-1

Job ID: 570-42852-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-42852-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 11/18/2020. The report (revision 1) is being revised to correct the air volumes on four samples per client's request.

Receipt
The samples were received on 11/4/2020 10:15 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-109726 and analytical batch 570-109955 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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-TSP102620-B606UPWIND
Date Collected: 10/26/20 07:15
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-42852-14
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/14/20 15:00	11/16/20 10:48	1
Lead	**12.2**		12.0	3.16	ug/Sample		11/14/20 15:00	11/16/20 10:48	1
Manganese	**206**	**F1**	6.00	3.34	ug/Sample		11/14/20 15:00	11/16/20 10:48	1

Client Sample ID: PE-TSP102620-12ADOWNWIND
Date Collected: 10/26/20 07:25
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-42852-15
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/14/20 15:00	11/16/20 10:54	1
Lead	**5.12**	**J**	12.0	3.16	ug/Sample		11/14/20 15:00	11/16/20 10:54	1
Manganese	**194**		6.00	3.34	ug/Sample		11/14/20 15:00	11/16/20 10:54	1

Client Sample ID: PE-TSP102720-B606UPWIND
Date Collected: 10/27/20 07:06
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-42852-18
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/14/20 15:00	11/16/20 10:56	1
Lead	**9.26**	**J**	12.0	3.16	ug/Sample		11/14/20 15:00	11/16/20 10:56	1
Manganese	**61.7**		6.00	3.34	ug/Sample		11/14/20 15:00	11/16/20 10:56	1

Client Sample ID: PE-TSP102720-12ADOWNWIND
Date Collected: 10/27/20 07:20
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-42852-19
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/14/20 15:00	11/16/20 10:58	1
Lead	ND		12.0	3.16	ug/Sample		11/14/20 15:00	11/16/20 10:58	1
Manganese	**56.6**		6.00	3.34	ug/Sample		11/14/20 15:00	11/16/20 10:58	1

Client Sample ID: PE-TSP102820-B606UPWIND
Date Collected: 10/28/20 07:06
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-42852-22
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/14/20 15:00	11/16/20 11:00	1
Lead	**18.7**		12.0	3.16	ug/Sample		11/14/20 15:00	11/16/20 11:00	1
Manganese	**164**		6.00	3.34	ug/Sample		11/14/20 15:00	11/16/20 11:00	1

Client Sample ID: PE-TSP102820-12ADOWNWIND
Date Collected: 10/28/20 07:15
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-42852-23
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/14/20 15:00	11/16/20 11:12	1
Lead	**4.40**	**J**	12.0	3.16	ug/Sample		11/14/20 15:00	11/16/20 11:12	1
Manganese	**75.7**		6.00	3.34	ug/Sample		11/14/20 15:00	11/16/20 11:12	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP102920-B606UPWIND
Date Collected: 10/29/20 07:09
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-42852-26
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/14/20 15:00	11/16/20 11:14	1
Lead	**10.3**	**J**	12.0	3.16	ug/Sample		11/14/20 15:00	11/16/20 11:14	1
Manganese	**134**		6.00	3.34	ug/Sample		11/14/20 15:00	11/16/20 11:14	1

Client Sample ID: PE-TSP102920-12ADOWNWIND
Date Collected: 10/29/20 07:11
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-42852-27
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/14/20 15:00	11/16/20 11:16	1
Lead	**5.99**	**J**	12.0	3.16	ug/Sample		11/14/20 15:00	11/16/20 11:16	1
Manganese	**115**		6.00	3.34	ug/Sample		11/14/20 15:00	11/16/20 11:16	1

Client Sample ID: PE-TSP103020-B606UPWIND
Date Collected: 10/30/20 07:15
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-42852-30
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/14/20 15:00	11/16/20 11:17	1
Lead	**10.5**	**J**	12.0	3.16	ug/Sample		11/14/20 15:00	11/16/20 11:17	1
Manganese	**60.4**		6.00	3.34	ug/Sample		11/14/20 15:00	11/16/20 11:17	1

Client Sample ID: PE-TSP103020-12ADOWNWIND
Date Collected: 10/30/20 07:29
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-42852-31
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/14/20 15:00	11/16/20 11:19	1
Lead	**4.38**	**J**	12.0	3.16	ug/Sample		11/14/20 15:00	11/16/20 11:19	1
Manganese	**56.1**		6.00	3.34	ug/Sample		11/14/20 15:00	11/16/20 11:19	1

Client Sample ID: PE-TSP103120-B606UPWIND
Date Collected: 10/31/20 07:00
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-42852-34
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/14/20 15:00	11/16/20 11:21	1
Lead	**12.8**		12.0	3.16	ug/Sample		11/14/20 15:00	11/16/20 11:21	1
Manganese	**75.9**		6.00	3.34	ug/Sample		11/14/20 15:00	11/16/20 11:21	1

Client Sample ID: PE-TSP103120-12ADOWNWIND
Date Collected: 10/31/20 07:10
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-42852-35
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/14/20 15:00	11/16/20 11:23	1
Lead	ND		12.0	3.16	ug/Sample		11/14/20 15:00	11/16/20 11:23	1
Manganese	**34.0**		6.00	3.34	ug/Sample		11/14/20 15:00	11/16/20 11:23	1

General Chemistry

Client Sample ID: PE-TSP102620-B606UPWIND — **Lab Sample ID: 570-42852-14**
Date Collected: 10/26/20 07:15 — **Matrix: Air**
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	169		5.82	5.82	ug/m3			11/12/20 13:46	1

Client Sample ID: PE-TSP102620-12ADOWNWIND — **Lab Sample ID: 570-42852-15**
Date Collected: 10/26/20 07:25 — **Matrix: Air**
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	116		6.09	6.09	ug/m3			11/12/20 13:46	1

Client Sample ID: PE_PM10102620-B606UPWIND — **Lab Sample ID: 570-42852-16**
Date Collected: 10/26/20 07:15 — **Matrix: Air**
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	81.7		5.82	5.82	ug/m3			11/12/20 17:58	1

Client Sample ID: PE_PM10102620-12ADOWNWIND — **Lab Sample ID: 570-42852-17**
Date Collected: 10/26/20 07:25 — **Matrix: Air**
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	47.3		5.94	5.94	ug/m3			11/12/20 17:58	1

Client Sample ID: PE-TSP102720-B606UPWIND — **Lab Sample ID: 570-42852-18**
Date Collected: 10/27/20 07:06 — **Matrix: Air**
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	101		5.71	5.71	ug/m3			11/12/20 13:46	1

Client Sample ID: PE-TSP102720-12ADOWNWIND — **Lab Sample ID: 570-42852-19**
Date Collected: 10/27/20 07:20 — **Matrix: Air**
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	55.2		6.02	6.02	ug/m3			11/12/20 13:46	1

Client Sample ID: PE_PM10102720-B606UPWIND — **Lab Sample ID: 570-42852-20**
Date Collected: 10/27/20 07:06 — **Matrix: Air**
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	67.0		5.71	5.71	ug/m3			11/12/20 17:58	1

Client Sample ID: PE_PM10102720-12ADOWNWIND — **Lab Sample ID: 570-42852-21**
Date Collected: 10/27/20 07:20 — **Matrix: Air**
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	20.5		6.02	6.02	ug/m3			11/12/20 17:58	1

General Chemistry

Client Sample ID: PE-TSP102820-B606UPWIND — **Lab Sample ID: 570-42852-22**
Date Collected: 10/28/20 07:06 — **Matrix: Air**
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	239		6.47	6.47	ug/m3			11/12/20 13:46	1

Client Sample ID: PE-TSP102820-12ADOWNWIND — **Lab Sample ID: 570-42852-23**
Date Collected: 10/28/20 07:15 — **Matrix: Air**
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	114		6.74	6.74	ug/m3			11/12/20 13:46	1

Client Sample ID: PE_PM10102820-B606UPWIND — **Lab Sample ID: 570-42852-24**
Date Collected: 10/28/20 07:06 — **Matrix: Air**
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	127		6.47	6.47	ug/m3			11/12/20 17:58	1

Client Sample ID: PE_PM10102820-12ADOWNWIND — **Lab Sample ID: 570-42852-25**
Date Collected: 10/28/20 07:15 — **Matrix: Air**
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	76.6		6.74	6.74	ug/m3			11/12/20 17:58	1

Client Sample ID: PE-TSP102920-B606UPWIND — **Lab Sample ID: 570-42852-26**
Date Collected: 10/29/20 07:09 — **Matrix: Air**
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	128		3.53	3.53	ug/m3			11/12/20 13:46	1

Client Sample ID: PE-TSP102920-12ADOWNWIND — **Lab Sample ID: 570-42852-27**
Date Collected: 10/29/20 07:11 — **Matrix: Air**
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	82.4		3.58	3.58	ug/m3			11/12/20 13:46	1

Client Sample ID: PE_PM10102920-B606UPWIND — **Lab Sample ID: 570-42852-28**
Date Collected: 10/29/20 07:09 — **Matrix: Air**
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	71.2		3.53	3.53	ug/m3			11/12/20 17:58	1

Client Sample ID: PE_PM10102920-12ADOWNWIND — **Lab Sample ID: 570-42852-29**
Date Collected: 10/29/20 07:11 — **Matrix: Air**
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	47.4		3.58	3.58	ug/m3			11/12/20 17:58	1

General Chemistry

Client Sample ID: PE-TSP103020-B606UPWIND
Date Collected: 10/30/20 07:15
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-42852-30
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	52.0		2.56	2.56	ug/m3			11/12/20 13:46	1

Client Sample ID: PE-TSP103020-12ADOWNWIND
Date Collected: 10/30/20 07:29
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-42852-31
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	33.7		2.57	2.57	ug/m3			11/12/20 13:46	1

Client Sample ID: PE_PM10103020-B606UPWIND
Date Collected: 10/30/20 07:15
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-42852-32
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	24.9		2.56	2.56	ug/m3			11/12/20 17:58	1

Client Sample ID: PE_PM10103020-12ADOWNWIND
Date Collected: 10/30/20 07:29
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-42852-33
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	19.4		2.57	2.57	ug/m3			11/12/20 17:58	1

Client Sample ID: PE-TSP103120-B606UPWIND
Date Collected: 10/31/20 07:00
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-42852-34
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	68.1		5.76	5.76	ug/m3			11/12/20 13:46	1

Client Sample ID: PE-TSP103120-12ADOWNWIND
Date Collected: 10/31/20 07:10
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-42852-35
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	39.9		5.76	5.76	ug/m3			11/12/20 13:46	1

Client Sample ID: PE_PM10103120-B606UPWIND
Date Collected: 10/31/20 07:00
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-42852-36
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	37.6		5.76	5.76	ug/m3			11/12/20 17:58	1

Client Sample ID: PE_PM10103120-12ADOWNWIND
Date Collected: 10/31/20 07:10
Date Received: 11/04/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-42852-37
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	25.5		5.76	5.76	ug/m3			11/12/20 17:58	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-109726/1-A
Matrix: Air
Analysis Batch: 109955

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109726

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		11/14/20 15:00	11/16/20 10:41	1
Lead	ND		12.0	3.16	ug/Sample		11/14/20 15:00	11/16/20 10:41	1
Manganese	ND		6.00	3.34	ug/Sample		11/14/20 15:00	11/16/20 10:41	1

Lab Sample ID: LCS 570-109726/2-A
Matrix: Air
Analysis Batch: 109955

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109726

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	600	583.2		ug/Sample		97	80 - 120
Lead	600	624.3		ug/Sample		104	80 - 120
Manganese	600	613.5		ug/Sample		102	80 - 120

Lab Sample ID: LCSD 570-109726/3-A
Matrix: Air
Analysis Batch: 109955

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109726

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	600	580.7		ug/Sample		97	80 - 120	0	20
Lead	600	610.8		ug/Sample		102	80 - 120	2	20
Manganese	600	610.4		ug/Sample		102	80 - 120	1	20

Lab Sample ID: 570-42852-14 MS
Matrix: Air
Analysis Batch: 109955

Client Sample ID: PE-TSP102620-B606UPWIND
Prep Type: Total/NA
Prep Batch: 109726

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		600	472.0		ug/Sample		79	75 - 125
Lead	12.2		600	519.1		ug/Sample		84	75 - 125
Manganese	206	F1	600	650.1	F1	ug/Sample		74	75 - 125

Lab Sample ID: 570-42852-14 MSD
Matrix: Air
Analysis Batch: 109955

Client Sample ID: PE-TSP102620-B606UPWIND
Prep Type: Total/NA
Prep Batch: 109726

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		600	461.1		ug/Sample		77	75 - 125	2	20
Lead	12.2		600	507.1		ug/Sample		82	75 - 125	2	20
Manganese	206	F1	600	635.1	F1	ug/Sample		71	75 - 125	2	20

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

Lab Sample ID: MB 570-109130/1-A
Matrix: Air
Analysis Batch: 109131

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			11/12/20 13:46	1

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

Lab Sample ID: 570-42852-14 DU
Matrix: Air
Analysis Batch: 109131

Client Sample ID: PE-TSP102620-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	169			169.4		ug/m3				0	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-109212/1
Matrix: Air
Analysis Batch: 109212

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			11/12/20 17:58	1

Lab Sample ID: 570-42852-16 DU
Matrix: Air
Analysis Batch: 109212

Client Sample ID: PE_PM10102620-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	81.7			81.68		ug/m3				0	25

Metals

Prep Batch: 109726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42852-14	PE-TSP102620-B606UPWIND	Total/NA	Air	3050B	
570-42852-15	PE-TSP102620-12ADOWNWIND	Total/NA	Air	3050B	
570-42852-18	PE-TSP102720-B606UPWIND	Total/NA	Air	3050B	
570-42852-19	PE-TSP102720-12ADOWNWIND	Total/NA	Air	3050B	
570-42852-22	PE-TSP102820-B606UPWIND	Total/NA	Air	3050B	
570-42852-23	PE-TSP102820-12ADOWNWIND	Total/NA	Air	3050B	
570-42852-26	PE-TSP102920-B606UPWIND	Total/NA	Air	3050B	
570-42852-27	PE-TSP102920-12ADOWNWIND	Total/NA	Air	3050B	
570-42852-30	PE-TSP103020-B606UPWIND	Total/NA	Air	3050B	
570-42852-31	PE-TSP103020-12ADOWNWIND	Total/NA	Air	3050B	
570-42852-34	PE-TSP103120-B606UPWIND	Total/NA	Air	3050B	
570-42852-35	PE-TSP103120-12ADOWNWIND	Total/NA	Air	3050B	
MB 570-109726/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-109726/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-109726/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-42852-14 MS	PE-TSP102620-B606UPWIND	Total/NA	Air	3050B	
570-42852-14 MSD	PE-TSP102620-B606UPWIND	Total/NA	Air	3050B	

Analysis Batch: 109955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42852-14	PE-TSP102620-B606UPWIND	Total/NA	Air	6010B	109726
570-42852-15	PE-TSP102620-12ADOWNWIND	Total/NA	Air	6010B	109726
570-42852-18	PE-TSP102720-B606UPWIND	Total/NA	Air	6010B	109726
570-42852-19	PE-TSP102720-12ADOWNWIND	Total/NA	Air	6010B	109726
570-42852-22	PE-TSP102820-B606UPWIND	Total/NA	Air	6010B	109726
570-42852-23	PE-TSP102820-12ADOWNWIND	Total/NA	Air	6010B	109726
570-42852-26	PE-TSP102920-B606UPWIND	Total/NA	Air	6010B	109726
570-42852-27	PE-TSP102920-12ADOWNWIND	Total/NA	Air	6010B	109726
570-42852-30	PE-TSP103020-B606UPWIND	Total/NA	Air	6010B	109726
570-42852-31	PE-TSP103020-12ADOWNWIND	Total/NA	Air	6010B	109726
570-42852-34	PE-TSP103120-B606UPWIND	Total/NA	Air	6010B	109726
570-42852-35	PE-TSP103120-12ADOWNWIND	Total/NA	Air	6010B	109726
MB 570-109726/1-A	Method Blank	Total/NA	Air	6010B	109726
LCS 570-109726/2-A	Lab Control Sample	Total/NA	Air	6010B	109726
LCSD 570-109726/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	109726
570-42852-14 MS	PE-TSP102620-B606UPWIND	Total/NA	Air	6010B	109726
570-42852-14 MSD	PE-TSP102620-B606UPWIND	Total/NA	Air	6010B	109726

General Chemistry

Pre Prep Batch: 109130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42852-14	PE-TSP102620-B606UPWIND	Total/NA	Air	Filter to Air	
570-42852-15	PE-TSP102620-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-42852-18	PE-TSP102720-B606UPWIND	Total/NA	Air	Filter to Air	
570-42852-19	PE-TSP102720-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-42852-22	PE-TSP102820-B606UPWIND	Total/NA	Air	Filter to Air	
570-42852-23	PE-TSP102820-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-42852-26	PE-TSP102920-B606UPWIND	Total/NA	Air	Filter to Air	
570-42852-27	PE-TSP102920-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-42852-30	PE-TSP103020-B606UPWIND	Total/NA	Air	Filter to Air	

General Chemistry (Continued)

Pre Prep Batch: 109130 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42852-31	PE-TSP103020-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-42852-34	PE-TSP103120-B606UPWIND	Total/NA	Air	Filter to Air	
570-42852-35	PE-TSP103120-12ADOWNWIND	Total/NA	Air	Filter to Air	
MB 570-109130/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-42852-14 DU	PE-TSP102620-B606UPWIND	Total/NA	Air	Filter to Air	

Analysis Batch: 109131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42852-14	PE-TSP102620-B606UPWIND	Total/NA	Air	40CFR50 App B	109130
570-42852-15	PE-TSP102620-12ADOWNWIND	Total/NA	Air	40CFR50 App B	109130
570-42852-18	PE-TSP102720-B606UPWIND	Total/NA	Air	40CFR50 App B	109130
570-42852-19	PE-TSP102720-12ADOWNWIND	Total/NA	Air	40CFR50 App B	109130
570-42852-22	PE-TSP102820-B606UPWIND	Total/NA	Air	40CFR50 App B	109130
570-42852-23	PE-TSP102820-12ADOWNWIND	Total/NA	Air	40CFR50 App B	109130
570-42852-26	PE-TSP102920-B606UPWIND	Total/NA	Air	40CFR50 App B	109130
570-42852-27	PE-TSP102920-12ADOWNWIND	Total/NA	Air	40CFR50 App B	109130
570-42852-30	PE-TSP103020-B606UPWIND	Total/NA	Air	40CFR50 App B	109130
570-42852-31	PE-TSP103020-12ADOWNWIND	Total/NA	Air	40CFR50 App B	109130
570-42852-34	PE-TSP103120-B606UPWIND	Total/NA	Air	40CFR50 App B	109130
570-42852-35	PE-TSP103120-12ADOWNWIND	Total/NA	Air	40CFR50 App B	109130
MB 570-109130/1-A	Method Blank	Total/NA	Air	40CFR50 App B	109130
570-42852-14 DU	PE-TSP102620-B606UPWIND	Total/NA	Air	40CFR50 App B	109130

Analysis Batch: 109212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42852-16	PE_PM10102620-B606UPWIND	Total/NA	Air	PM10	
570-42852-17	PE_PM10102620-12ADOWNWIND	Total/NA	Air	PM10	
570-42852-20	PE_PM10102720-B606UPWIND	Total/NA	Air	PM10	
570-42852-21	PE_PM10102720-12ADOWNWIND	Total/NA	Air	PM10	
570-42852-24	PE_PM10102820-B606UPWIND	Total/NA	Air	PM10	
570-42852-25	PE_PM10102820-12ADOWNWIND	Total/NA	Air	PM10	
570-42852-28	PE_PM10102920-B606UPWIND	Total/NA	Air	PM10	
570-42852-29	PE_PM10102920-12ADOWNWIND	Total/NA	Air	PM10	
570-42852-32	PE_PM10103020-B606UPWIND	Total/NA	Air	PM10	
570-42852-33	PE_PM10103020-12ADOWNWIND	Total/NA	Air	PM10	
570-42852-36	PE_PM10103120-B606UPWIND	Total/NA	Air	PM10	
570-42852-37	PE_PM10103120-12ADOWNWIND	Total/NA	Air	PM10	
MB 570-109212/1	Method Blank	Total/NA	Air	PM10	
570-42852-16 DU	PE_PM10102620-B606UPWIND	Total/NA	Air	PM10	

BALANCE CALIBRATION CHECK LOG

Eurofins Calscience

Date performed: 11/12/20 Initials: UAPD

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	100.00	98.00 - 102.00	(Y) N	
62	0.002	0.0017	0.0015 - 0.0025	(Y) N	IO Lab
	1	0.9990	0.9990 - 1.0010	(Y) N	
	100	100.0018	99.9000 - 100.1000	(Y) N	
11	1	0.99	0.98 - 1.02	(Y) N	IO Lab
	100	100.00	98.00 - 102.00	(Y) N	
55	1	0.99	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	
86	1	1.00 ~~0018~~ *	0.98 - 1.02	(Y) N	IO Lab
	100	100.00	98.00 - 102.00	(Y) N	
	500	499.98	490.00 - 510.00	(Y) N	
71	0.002	0.0018	0.0015 - 0.0025	(Y) N	BOD Room
	1	0.9992	0.9990 - 1.0010	(Y) N	
	100	99.9910	99.9000 - 100.1000	(Y) N	
63	0.1	NOT IN	0.08 - 0.12	Y N	BOD Room
	100	USE	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	100.00	98.00 - 102.00	(Y) N	
87	0.002	0.0019	0.0015 - 0.0025	(Y) N	Solids Room
	1	0.9992	0.9990 - 1.0010	(Y) N	
	100	99.9910	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:

* 11/12/20 UAPD

WT SET ID USED: 2 mg	1001-4861	COMMENT:
WT SET ID USED: 10 mg - 100 g	4000013239	
WT SET ID USED: 500 g	69073	

Lab Chronicle

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

Job ID: 570-42852-1

Client Sample ID: PE-TSP102620-B606UPWIND
Lab Sample ID: 570-42852-14
Date Collected: 10/26/20 07:15
Matrix: Air
Date Received: 11/04/20 10:15

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	109726	11/14/20 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109955	11/16/20 10:48	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					109130	11/12/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			109131	11/12/20 13:46	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP102620-12ADOWNWIND
Lab Sample ID: 570-42852-15
Date Collected: 10/26/20 07:25
Matrix: Air
Date Received: 11/04/20 10:15

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	109726	11/14/20 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109955	11/16/20 10:54	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					109130	11/12/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			109131	11/12/20 13:46	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10102620-B606UPWIND
Lab Sample ID: 570-42852-16
Date Collected: 10/26/20 07:15
Matrix: Air
Date Received: 11/04/20 10:15

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	4.3067 g	4.3488 g	109212	11/12/20 17:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10102620-12ADOWNWIND
Lab Sample ID: 570-42852-17
Date Collected: 10/26/20 07:25
Matrix: Air
Date Received: 11/04/20 10:15

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	4.3206 g	4.3445 g	109212	11/12/20 17:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP102720-B606UPWIND
Lab Sample ID: 570-42852-18
Date Collected: 10/27/20 07:06
Matrix: Air
Date Received: 11/04/20 10:15

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	109726	11/14/20 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109955	11/16/20 10:56	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					109130	11/12/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			109131	11/12/20 13:46	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-42852-1

Client Sample ID: PE-TSP102720-12ADOWNWIND
Lab Sample ID: 570-42852-19
Date Collected: 10/27/20 07:20
Matrix: Air
Date Received: 11/04/20 10:15

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	109726	11/14/20 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109955	11/16/20 10:58	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					109130	11/12/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			109131	11/12/20 13:46	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10102720-B606UPWIND
Lab Sample ID: 570-42852-20
Date Collected: 10/27/20 07:06
Matrix: Air
Date Received: 11/04/20 10:15

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	4.3334 g	4.3686 g	109212	11/12/20 17:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10102720-12ADOWNWIND
Lab Sample ID: 570-42852-21
Date Collected: 10/27/20 07:20
Matrix: Air
Date Received: 11/04/20 10:15

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	4.3428 g	4.3530 g	109212	11/12/20 17:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP102820-B606UPWIND
Lab Sample ID: 570-42852-22
Date Collected: 10/28/20 07:06
Matrix: Air
Date Received: 11/04/20 10:15

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	109726	11/14/20 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109955	11/16/20 11:00	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					109130	11/12/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			109131	11/12/20 13:46	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP102820-12ADOWNWIND
Lab Sample ID: 570-42852-23
Date Collected: 10/28/20 07:15
Matrix: Air
Date Received: 11/04/20 10:15

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	109726	11/14/20 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109955	11/16/20 11:12	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					109130	11/12/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			109131	11/12/20 13:46	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-42852-1

Client Sample ID: PE_PM10102820-B606UPWIND
Lab Sample ID: 570-42852-24
Date Collected: 10/28/20 07:06
Matrix: Air
Date Received: 11/04/20 10:15

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	4.3509 g	4.4099 g	109212	11/12/20 17:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10102820-12ADOWNWIND
Lab Sample ID: 570-42852-25
Date Collected: 10/28/20 07:15
Matrix: Air
Date Received: 11/04/20 10:15

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	4.3307 g	4.3648 g	109212	11/12/20 17:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP102920-B606UPWIND
Lab Sample ID: 570-42852-26
Date Collected: 10/29/20 07:09
Matrix: Air
Date Received: 11/04/20 10:15

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	109726	11/14/20 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109955	11/16/20 11:14	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					109130	11/12/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			109131	11/12/20 13:46	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP102920-12ADOWNWIND
Lab Sample ID: 570-42852-27
Date Collected: 10/29/20 07:11
Matrix: Air
Date Received: 11/04/20 10:15

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	109726	11/14/20 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109955	11/16/20 11:16	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					109130	11/12/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			109131	11/12/20 13:46	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10102920-B606UPWIND
Lab Sample ID: 570-42852-28
Date Collected: 10/29/20 07:09
Matrix: Air
Date Received: 11/04/20 10:15

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	4.3536 g	4.4142 g	109212	11/12/20 17:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-42852-1

Client Sample ID: PE_PM10102920-12ADOWNWIND
Lab Sample ID: 570-42852-29
Date Collected: 10/29/20 07:11
Matrix: Air
Date Received: 11/04/20 10:15

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	4.3518 g	4.3915 g	109212	11/12/20 17:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP103020-B606UPWIND
Lab Sample ID: 570-42852-30
Date Collected: 10/30/20 07:15
Matrix: Air
Date Received: 11/04/20 10:15

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	109726	11/14/20 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109955	11/16/20 11:17	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					109130	11/12/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			109131	11/12/20 13:46	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP103020-12ADOWNWIND
Lab Sample ID: 570-42852-31
Date Collected: 10/30/20 07:29
Matrix: Air
Date Received: 11/04/20 10:15

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	109726	11/14/20 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109955	11/16/20 11:19	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					109130	11/12/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			109131	11/12/20 13:46	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10103020-B606UPWIND
Lab Sample ID: 570-42852-32
Date Collected: 10/30/20 07:15
Matrix: Air
Date Received: 11/04/20 10:15

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	4.3547 g	4.3839 g	109212	11/12/20 17:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10103020-12ADOWNWIND
Lab Sample ID: 570-42852-33
Date Collected: 10/30/20 07:29
Matrix: Air
Date Received: 11/04/20 10:15

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	4.2954 g	4.3180 g	109212	11/12/20 17:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-42852-1

Client Sample ID: PE-TSP103120-B606UPWIND
Lab Sample ID: 570-42852-34
Date Collected: 10/31/20 07:00
Matrix: Air
Date Received: 11/04/20 10:15

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	109726	11/14/20 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109955	11/16/20 11:21	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					109130	11/12/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			109131	11/12/20 13:46	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP103120-12ADOWNWIND
Lab Sample ID: 570-42852-35
Date Collected: 10/31/20 07:10
Matrix: Air
Date Received: 11/04/20 10:15

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	109726	11/14/20 15:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			109955	11/16/20 11:23	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					109130	11/12/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			109131	11/12/20 13:46	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10103120-B606UPWIND
Lab Sample ID: 570-42852-36
Date Collected: 10/31/20 07:00
Matrix: Air
Date Received: 11/04/20 10:15

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	4.2874 g	4.3070 g	109212	11/12/20 17:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10103120-12ADOWNWIND
Lab Sample ID: 570-42852-37
Date Collected: 10/31/20 07:10
Matrix: Air
Date Received: 11/04/20 10:15

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	4.3119 g	4.3252 g	109212	11/12/20 17:58	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: 570-42852-1

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: 570-42852-1

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: 570-42852-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-42852-1	PE-ASB102620-B606UPWIND	Air	10/26/20 07:15	11/04/20 10:15	
570-42852-2	PE-ASB102620-12ADOWNWIND	Air	10/26/20 07:25	11/04/20 10:15	
570-42852-3	PE-ASB102720-B606UPWIND	Air	10/27/20 07:06	11/04/20 10:15	
570-42852-4	PE-ASB102720-12ADOWNWIND	Air	10/27/20 07:20	11/04/20 10:15	
570-42852-5	PE-ASB102820-B606UPWIND	Air	10/28/20 07:06	11/04/20 10:15	
570-42852-6	PE-ASB102820-12ADOWNWIND	Air	10/28/20 07:15	11/04/20 10:15	
570-42852-7	PE-ASB102920-B606UPWIND	Air	10/29/20 07:09	11/04/20 10:15	
570-42852-8	PE-ASB102920-12ADOWNWIND	Air	10/29/20 07:24	11/04/20 10:15	
570-42852-9	PE-ASB103020-B606UPWIND	Air	10/30/20 07:15	11/04/20 10:15	
570-42852-10	PE-ASB103020-12ADOWNWIND	Air	10/30/20 07:29	11/04/20 10:15	
570-42852-11	PE-ASB103120-B606UPWIND	Air	10/31/20 07:00	11/04/20 10:15	
570-42852-12	PE-ASB103120-12ADOWNWIND	Air	10/31/20 07:10	11/04/20 10:15	
570-42852-13	PE-ASB103020-BLANK	Air	10/30/20 07:15	11/04/20 10:15	
570-42852-14	PE-TSP102620-B606UPWIND	Air	10/26/20 07:15	11/04/20 10:15	
570-42852-15	PE-TSP102620-12ADOWNWIND	Air	10/26/20 07:25	11/04/20 10:15	
570-42852-16	PE_PM10102620-B606UPWIND	Air	10/26/20 07:15	11/04/20 10:15	
570-42852-17	PE_PM10102620-12ADOWNWIND	Air	10/26/20 07:25	11/04/20 10:15	
570-42852-18	PE-TSP102720-B606UPWIND	Air	10/27/20 07:06	11/04/20 10:15	
570-42852-19	PE-TSP102720-12ADOWNWIND	Air	10/27/20 07:20	11/04/20 10:15	
570-42852-20	PE_PM10102720-B606UPWIND	Air	10/27/20 07:06	11/04/20 10:15	
570-42852-21	PE_PM10102720-12ADOWNWIND	Air	10/27/20 07:20	11/04/20 10:15	
570-42852-22	PE-TSP102820-B606UPWIND	Air	10/28/20 07:06	11/04/20 10:15	
570-42852-23	PE-TSP102820-12ADOWNWIND	Air	10/28/20 07:15	11/04/20 10:15	
570-42852-24	PE_PM10102820-B606UPWIND	Air	10/28/20 07:06	11/04/20 10:15	
570-42852-25	PE_PM10102820-12ADOWNWIND	Air	10/28/20 07:15	11/04/20 10:15	
570-42852-26	PE-TSP102920-B606UPWIND	Air	10/29/20 07:09	11/04/20 10:15	
570-42852-27	PE-TSP102920-12ADOWNWIND	Air	10/29/20 07:11	11/04/20 10:15	
570-42852-28	PE_PM10102920-B606UPWIND	Air	10/29/20 07:09	11/04/20 10:15	
570-42852-29	PE_PM10102920-12ADOWNWIND	Air	10/29/20 07:11	11/04/20 10:15	
570-42852-30	PE-TSP103020-B606UPWIND	Air	10/30/20 07:15	11/04/20 10:15	
570-42852-31	PE-TSP103020-12ADOWNWIND	Air	10/30/20 07:29	11/04/20 10:15	
570-42852-32	PE_PM10103020-B606UPWIND	Air	10/30/20 07:15	11/04/20 10:15	
570-42852-33	PE_PM10103020-12ADOWNWIND	Air	10/30/20 07:29	11/04/20 10:15	
570-42852-34	PE-TSP103120-B606UPWIND	Air	10/31/20 07:00	11/04/20 10:15	
570-42852-35	PE-TSP103120-12ADOWNWIND	Air	10/31/20 07:10	11/04/20 10:15	
570-42852-36	PE_PM10103120-B606UPWIND	Air	10/31/20 07:00	11/04/20 10:15	
570-42852-37	PE_PM10103120-12ADOWNWIND	Air	10/31/20 07:10	11/04/20 10:15	

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: 332019946
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: 11/05/2020 12:20 PM
Analysis Date: 11/17/2020
Collected Date: 10/26/2020 - 10/31/2020

Project: HPNS - Parcel E / 500712 / 570-42852

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-ASB102620-B606UPW IND (570-42852-1) *332019946-0001*		10/26/2020	1760	12.5	100	0.0015	15.9	0.0035	
PE-ASB102620-12ADOW NWIND (570-42852-2) *332019946-0002*		10/26/2020	1760	9	100	0.0015	11.5	0.0025	Sample pulled for 10% duplicate count.
PE-ASB102720-B606UPW IND (570-42852-3) *332019946-0003*		10/27/2020	1964	20	100	0.0014	25.5	0.0050	
PE-ASB102720-12ADOW NWIND (570-42852-4) *332019946-0004*		10/27/2020	2004	<5.5	100	0.0013	<7.01	<0.0013	
PE-ASB102820-B606UPW IND (570-42852-5) *332019946-0005*		10/28/2020	1692	15.5	100	0.0016	19.7	0.0045	
PE-ASB102820-12ADOW NWIND (570-42852-6) *332019946-0006*		10/28/2020	1788	<5.5	100	0.0015	<7.01	<0.0015	
PE-ASB102920-B606UPW IND (570-42852-7) *332019946-0007*		10/29/2020	1820	9.5	100	0.0015	12.1	0.0026	
PE-ASB102920-12ADOW NWIND (570-42852-8) *332019946-0008*		10/29/2020	1730	14	100	0.0016	17.8	0.0040	
PE-ASB103020-B606UPW IND (570-42852-9) *332019946-0009*		10/30/2020	2050	10.5	100	0.0013	13.4	0.0025	
PE-ASB103020-12ADOW NWIND (570-42852-10) *332019946-0010*		10/30/2020	1734	6	100	0.0016	7.64	0.0017	
PE-ASB103120-B606UPW IND (570-42852-11) *332019946-0011*		10/31/2020	920	5.5	100	0.0029	7.01	0.0029	
PE-ASB103120-12ADOW NWIND (570-42852-12) *332019946-0012*		10/31/2020	920	7.5	100	0.0029	9.55	0.0040	Sample pulled for 10% duplicate count.
PE-ASB103020-BLANK (570-42852-13)		10/30/2020		<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: 11/17/2020 09:59 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: 332019946
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: 11/05/2020 12:20 PM
Analysis Date: 11/17/2020
Collected Date: 10/26/2020 - 10/31/2020

Project: HPNS - Parcel E / 500712 / 570-42852

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*
332019946-0013									
PE-ASB102620-12ADOW NWIND (570-42852-2)		10/26/2020	1760	10	100	0.0015	12.7	0.0028	10% duplicate count.
332019946-0014									
PE-ASB103120-12ADOW NWIND (570-42852-12)		10/31/2020	920	<5.5	100	0.0029	<7.01	<0.0029	10% duplicate count.
332019946-0015									

The results reported have been blank corrected as applicable.

Analyst(s):
Dennies Ly PCM 15

Michael Chapman, Laboratory Manager
or other Approved Signatory

Initial report from: 11/17/2020 09:59 AM

42852

APTIM

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

570-42852 Chain of Custody

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 032

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-ASB102620-B606UPWIND	CW559306	10/26/20	7:15	G	A	1	PCM			X			2.00	1.76			
2	PE-ASB102620-12ADOWNWIND	CW559309	10/26/20	7:25	G	A	1	PCM			X			2.00	1.76			
3	PE-ASB102720-B606UPWIND	CW559304	10/27/20	7:06	G	A	1	PCM			X			2.00	1.96			
4	PE-ASB102720-12ADOWNWIND	CW559318	10/27/20	7:20	G	A	1	PCM			X			2.00	2.00			
5	PE-ASB102820-B606UPWIND	CW559352	10/28/20	7:06	G	A	1	PCM			X			2.00	1.69			
6	PE-ASB102820-12ADOWNWIND	CW559434	10/28/20	7:15	G	A	1	PCM			X			2.00	1.79			
7	PE-ASB102920-B606UPWIND	CW559307	10/29/20	7:09	G	A	1	PCM			X			2.00	1.82			
8	PE-ASB102920-12ADOWNWIND	CW559319	10/29/20	7:24	G	A	1	PCM			X			2.00	1.73			
9	PE-ASB103020-B606UPWIND	CW559343	10/30/20	7:15	G	A	1	PCM			X			2.00	2.05			
10	PE-ASB103020-12ADOWNWIND	CW559435	10/30/20	7:29	G	A	1	PCM			X			2.00	1.73			
11	PE-ASB103120-B606UPWIND	CW559380	10/31/20	7:00	G	A	1	PCM			X			2.00	0.92			
12	PE-ASB103120-12ADOWNWIND	CW559390	10/31/20	7:10	G	A	1	PCM			X			2.00	0.92			
13	PE-ASB103020-BLANK	CW559345	10/30/20	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: 10/31/20 Time: 1600	Received By: Lock & storage	Date: 10/31/20 Time: 1600
Relinquished By: Lock & storage	Date: 11/3/20 Time: 0900	Received By: Edgar Ruiz	Date: 11/3/20 Time: 0900
Relinquished By: Edgar Ruiz	Date: 11/3/20 Time: 1100	Received By:	Date: 11/3/20 Time: 400
Relinquished By: Mark Valentine to GSO	Date: 11/3/20 Time: 1600	Received By:	Date: 11/4/20 Time: 10-15

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

42852

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 032

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)			
14	PE-TSP102620-B606UPWIND	Q0409191	10/26/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.8	515.4			
15	PE-TSP102620-12ADOWNWIND	Q0409193	10/26/20	7:25	G	A	1	8X10 EPM Whatman					X	1132.8	492.8			
16	PE_PM10102620-B606UPWIND	Q0409192	10/26/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.8	515.4			
	PE_PM10102620-12ADOWNWIND	Q0409194	10/26/20	7:25	G	A	1	8X10 EPM Whatman				X		1161.1	505.1			
	PE-TSP102720-B606UPWIND	Q0408607	10/27/20	7:06	G	A	1	8X10 EPM Whatman					X	1132.8	525.6			
	PE-TSP102720-12ADOWNWIND	Q0408609	10/27/20	7:20	G	A	1	8X10 EPM Whatman					X	1132.8	498.4			
	PE_PM10102720-B606UPWIND	Q0408608	10/27/20	7:06	G	A	1	8X10 EPM Whatman				X		1132.8	525.6			
21	PE_PM10102720-12ADOWNWIND	Q0408606	10/27/20	7:20	G	A	1	8X10 EPM Whatman				X		1132.8	498.4			
22	PE-TSP102820-B606UPWIND	Q0408613	10/28/20	7:06	G	A	1	8X10 EPM Whatman					X	1132.8	2156.9			
23	PE-TSP102820-12ADOWNWIND	Q0408611	10/28/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.8	1319.7			
24	PE_PM10102820-B606UPWIND	Q0408612	10/28/20	7:06	G	A	1	8X10 EPM Whatman				X		1132.8	2156.9			
25	PE_PM10102820-12ADOWNWIND	Q0408610	10/28/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.8	1319.7			
26	PE-TSP102920-B606UPWIND	Q0408618	10/29/20	7:09	G	A	1	8X10 EPM Whatman					X	1132.8	850.7			
27	PE-TSP102920-12ADOWNWIND	Q0408620	10/29/20	7:11	G	A	1	8X10 EPM Whatman					X	1132.8	837.1			
28	PE_PM10102920-B606UPWIND	Q0408619	10/29/20	7:09	G	A	1	8X10 EPM Whatman				X		1132.8	850.7			
29	PE_PM10102920-12ADOWNWIND	Q0408621	10/29/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.8	837.1			
30	PE-TSP103020-B606UPWIND	Q0408630	10/30/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.8	1172.4			
31	PE-TSP103020-12ADOWNWIND	Q0408632	10/30/20	7:29	G	A	1	8X10 EPM Whatman					X	1132.8	1167.9			
	PE_PM10103020-B606UPWIND	Q0408631	10/30/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.8	1172.4			
	PE_PM10103020-12ADOWNWIND	Q0408633	10/30/20	7:29	G	A	1	8X10 EPM Whatman				X		1132.8	1167.9			
	PE-TSP103120-B606UPWIND	Q0408634	10/31/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.8	521.1			
	PE-TSP103120-12ADOWNWIND	Q0408636	10/31/20	7:10	G	A	1	8X10 EPM Whatman					X	1132.8	521.1			
	PE_PM10103120-B606UPWIND	Q0408635	10/31/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.8	521.1			
17	PE_PM10103120-12ADOWNWIND	Q0408637	10/31/20	7:10	G	A	1	8X10 EPM Whatman				X		1132.8	521.1			

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12/3/2020 (REV. 1)

42852

AIR MONITORING LOG

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

STATION COC# 032

SAMPLE NO. PE-ASB102620-B606UPWIND 10/26/2020 *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				
CW559306	2.000	2.000	2.000	10/26/20 07:15	10/26/20 21:55	880	1.76	Asbestos	2.00

SAMPLE NO. PE-ASB102620-12ADOWNWIND 10/26/2020 *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				
CW559309	2.000	2.000	2.000	10/26/20 07:25	10/26/20 22:05	880	1.76	Asbestos	2.00

SAMPLE NO. PE-ASB102720-B606UPWIND 10/27/2020 *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				
CW559304	2.000	2.000	2.000	10/26/20 07:06	10/26/20 23:28	982	1.96	Asbestos	2.00

SAMPLE NO. PE-ASB102720-12ADOWNWIND 10/27/2020 *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				
CW559318	2.000	2.000	2.000	10/26/20 07:20	10/27/20 00:02	1002	2.00	Asbestos	2.00

SAMPLE NO. PE-ASB102820-B606UPWIND 10/28/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW559352	2.000	2.000	2.000	10/28/20 07:06	10/28/20 21:12	846	1.69	Asbestos	2.00

SAMPLE NO. PE-ASB102820-12ADOWNWIND 10/28/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW559434	2.000	2.000	2.000	10/28/20 07:15	10/28/20 22:09	894	1.79	Asbestos	2.00

SAMPLE NO. PE-ASB102920-B606UPWIND 10/29/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW559307	2.000	2.000	2.000	10/29/20 07:09	10/29/20 22:19	910	1.82	Asbestos	2.00

SAMPLE NO. PE-ASB102920-12ADOWNWIND 10/29/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW559319	2.000	2.000	2.000	10/29/20 07:24	10/29/20 21:49	865	1.73	Asbestos	2.00

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SAMPLE NO. **PE-ASB103020-B606UPWIND** 10/30/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW559343	2.000	2.000	2.000	10/30/20 07:15	10/31/20 00:20	1025	2.05	Asbestos	2.00

SAMPLE NO. **PE-ASB103020-12ADOWNWIND** 10/30/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW559435	2.000	2.000	2.0	10/30/20 07:29	10/30/20 21:56	867	1.73	Asbestos	2.00

SAMPLE NO. **PE-ASB103120-B606UPWIND** 10/31/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW559380	2.000	2.000	2.0	10/31/20 07:00	10/31/20 14:40	460	0.9	Asbestos	2.00

SAMPLE NO. **PE-ASB103120-12ADOWNWIND** 10/31/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CW559390	2.000	2.000	2.0	10/31/20 07:10	10/31/20 14:50	460	0.9	Asbestos	2.00

42952

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

STATION COC# 032

SAMPLE NO. **PE-TSP102620-B606UPWIND** 10/26/2020 *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				
Q0409191	40.0	40.0	40.0	10/26/20 07:15	10/26/20 14:50	455	515.4	TSP	1132.80

SAMPLE NO. **PE-TSP102620-12ADOWNWIND** 10/26/2020 *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				
Q0409193	40.0	40.0	40.0	10/26/20 07:25	10/26/20 14:40	435	492.8	TSP	1132.80

SAMPLE NO. **PE_PM10102620-B606UPWIND** 10/26/2020 *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				
Q0409192	40.0	40.0	40.0	10/26/20 07:15	10/26/20 14:50	455	515.4	PM-10	1132.80

SAMPLE NO. **PE_PM10102620-12ADOWNWIND** 10/26/2020 *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				
Q0409194	41.0	41.0	41.0	10/26/20 07:25	10/26/20 14:40	435	505.1	PM-10	1161.12

SAMPLE NO. **PE-TSP102720-B606UPWIND** 10/27/2020 *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				
Q0408607	40.0	40.0	40.0	10/27/20 07:06	10/27/20 14:50	464	525.6	TSP	1132.80

SAMPLE NO. **PE-TSP102720-12ADOWNWIND** 10/27/2020 *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				
Q0408609	40.0	40.0	40.0	10/27/20 07:20	10/27/20 14:40	440	498.4	TSP	1132.80

SAMPLE NO. **PE_PM10102720-B606UPWIND** 10/27/2020 *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				
Q0408608	40.0	40.0	40.0	10/27/20 07:06	10/27/20 14:50	464	525.6	PM-10	1132.80

SAMPLE NO. **PE_PM10102720-12ADOWNWIND** 10/27/2020 *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				
Q0408606	40.0	40.0	40.0	10/27/20 07:20	10/27/20 14:40	440	498.4	PM-10	1132.80

42852

SAMPLE NO. **PE-TSP102820-B606UPWIND** 10/28/2020 *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				
Q0408613	40.0	40.0	40.0	10/28/20 07:06	10/29/20 14:50	1904	2156.9	TSP	1132.80

SAMPLE NO. **PE-TSP102820-12ADOWNWIND** 10/28/2020 *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				
Q0408611	40.0	40.0	40.0	10/28/20 07:15	10/29/20 02:40	1165	1319.7	TSP	1132.80

SAMPLE NO. **PE_PM10102820-B606UPWIND** 10/28/2020 *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				
Q0408612	40.0	40.0	40.0	10/28/20 07:06	10/29/20 14:50	1904	2156.9	PM-10	1132.80

SAMPLE NO. **PE_PM10102820-12ADOWNWIND** 10/28/2020 *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				
Q0408610	40.0	40.0	40.0	10/28/20 07:15	10/29/20 02:40	1165	1319.7	PM-10	1132.80

SAMPLE NO. **PE-TSP102920-B606UPWIND** 10/29/2020 *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				
Q0408618	40.0	40.0	40.0	10/29/20 07:09	10/29/20 19:40	751	850.7	TSP	1132.80

SAMPLE NO. **PE-TSP102920-12ADOWNWIND** 10/29/2020 *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				
Q0408620	40.0	40.0	40.0	10/29/20 07:11	10/29/20 19:30	739	837.1	TSP	1132.80

SAMPLE NO. **PE_PM10102920-B606UPWIND** 10/29/2020 *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				
Q0408619	40.0	40.0	40.0	10/29/20 07:09	10/29/20 19:40	751	850.7	PM-10	1132.80

SAMPLE NO. **PE_PM10102920-12ADOWNWIND** 10/29/2020 *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				
Q0408621	40.0	40.0	40.0	10/29/20 07:11	10/29/20 19:30	739	837.1	PM-10	1132.80

SAMPLE NO. **PE-TSP103020-B606UPWIND** 10/30/2020 *Building 606 Upwind*

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

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Q0408630	40.0	40.0	40.0	10/30/20 07:15	10/31/20 00:30	1035	1172.4	TSP	1132.80

SAMPLE NO. **PE-TSP103020-12ADOWNWIND** 10/30/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0408632	40.0	40.0	40.0	10/30/20 07:29	10/31/20 00:40	1031	1167.9	TSP	1132.80

SAMPLE NO. **PE_PM10103020-B606UPWIND** 10/30/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0408631	40.0	40.0	40.0	10/30/20 07:15	10/31/20 00:30	1035	1172.4	PM-10	1132.80

SAMPLE NO. **PE_PM10103020-12ADOWNWIND** 10/30/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0408633	40.0	40.0	40.0	10/30/20 07:29	10/31/20 00:40	1031	1167.9	PM-10	1132.80

42832

GLS

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

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

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

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

Signature Type: STANDARD

Tracking #: 551036536

NPS

GARDEN GROVE

S92841A

30015181

ORC CA927-CL0

Print Date: 11/3/2020 1:03 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 S...

1342998

Custody Seal 11/3/20
DATE
SIGNATURE

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CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 032

Page 2 of 2

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

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

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

edgar.ruiz@aptim.com

Sampler's Name(s): ER

Sample ID Number	Lot No.	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	Analyses Requested: PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOS	Flow Rate (L/min.)	Sample Volume (m^3)			
PE-TSP102620-B606UPWIND	Q0409191	10/26/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.8	515.4			
PE-TSP102620-12ADOWNWIND	Q0409193	10/26/20	7:25	G	A	1	8X10 EPM Whatman					X	1132.8	492.8			
PE_PM10102620-B606UPWIND	Q0409192	10/26/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.8	515.4			
PE_PM10102620-12ADOWNWIND	Q0409194	10/26/20	7:25	G	A	1	8X10 EPM Whatman				X		1161.1	505.1			
PE-TSP102720-B606UPWIND	Q0408607	10/27/20	7:06	G	A	1	8X10 EPM Whatman					X	1132.8	525.6			
PE-TSP102720-12ADOWNWIND	Q0408609	10/27/20	7:20	G	A	1	8X10 EPM Whatman					X	1132.8	498.4			
PE_PM10102720-B606UPWIND	Q0408608	10/27/20	7:06	G	A	1	8X10 EPM Whatman				X		1132.8	525.6			
PE_PM10102720-12ADOWNWIND	Q0408606	10/27/20	7:20	G	A	1	8X10 EPM Whatman				X		1132.8	498.4			
PE-TSP102820-B606UPWIND	Q0408613	10/28/20	7:06	G	A	1	8X10 EPM Whatman					X	1132.8	~~2156.9~~	464		ER
PE-TSP102820-12ADOWNWIND	Q0408611	10/28/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.8	~~1319.7~~	445		12/3/20
PE_PM10102820-B606UPWIND	Q0408612	10/28/20	7:06	G	A	1	8X10 EPM Whatman				X		1132.8	~~2156.9~~	464		
PE_PM10102820-12ADOWNWIND	Q0408610	10/28/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.8	~~1319.7~~	445		
PE-TSP102920-B606UPWIND	Q0408618	10/29/20	7:09	G	A	1	8X10 EPM Whatman					X	1132.8	850.7			
PE-TSP102920-12ADOWNWIND	Q0408620	10/29/20	7:11	G	A	1	8X10 EPM Whatman					X	1132.8	837.1			
PE_PM10102920-B606UPWIND	Q0408619	10/29/20	7:09	G	A	1	8X10 EPM Whatman				X		1132.8	850.7			
PE_PM10102920-12ADOWNWIND	Q0408621	10/29/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.8	837.1			
PE-TSP103020-B606UPWIND	Q0408630	10/30/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.8	1172.4			
PE-TSP103020-12ADOWNWIND	Q0408632	10/30/20	7:29	G	A	1	8X10 EPM Whatman					X	1132.8	1167.9			
PE_PM10103020-B606UPWIND	Q0408631	10/30/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.8	1172.4			
PE_PM10103020-12ADOWNWIND	Q0408633	10/30/20	7:29	G	A	1	8X10 EPM Whatman				X		1132.8	1167.9			
PE-TSP103120-B606UPWIND	Q0408634	10/31/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.8	521.1			
PE-TSP103120-12ADOWNWIND	Q0408636	10/31/20	7:10	G	A	1	8X10 EPM Whatman					X	1132.8	521.1			
PE_PM10103120-B606UPWIND	Q0408635	10/31/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.8	521.1			
PE_PM10103120-12ADOWNWIND	Q0408637	10/31/20	7:10	G	A	1	8X10 EPM Whatman				X		1132.8	521.1			

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-42852-1

Login Number: 42852
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	

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