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

Interim

Air Sampling Summary Report No. 06

Data Date Range: November 20, 2019 through
June 27, 2020, Parcel E Remedial Action—Phase 1

Hunters Point Naval Shipyard, CA

July 2020

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DCN: APTM-2005-0024-0082

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Prepared for:

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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*

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 June 27, 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 Upwind” near Crisp Road and “Air Sampling Station #2 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

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, 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.

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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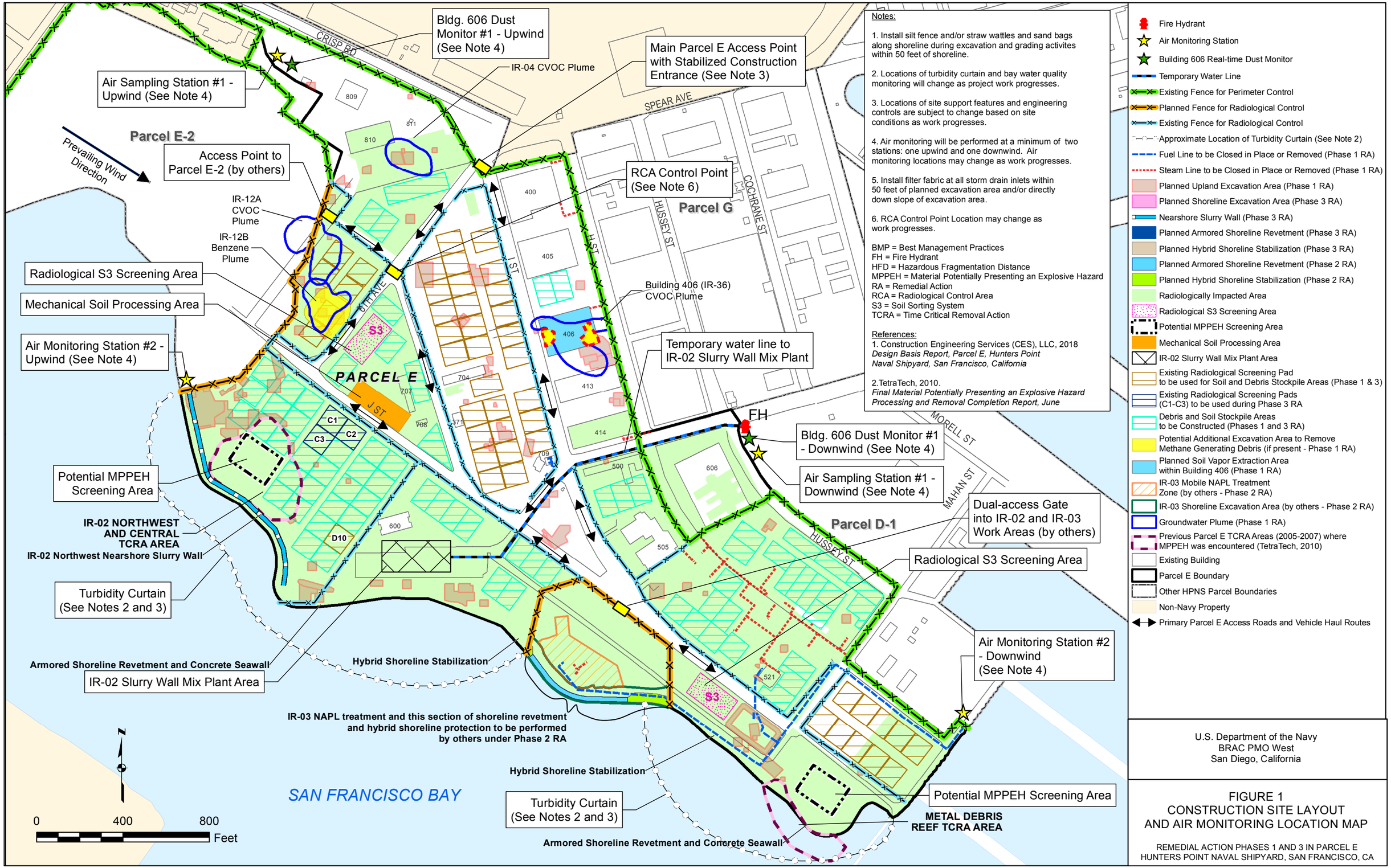
FIGURES



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

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

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

Notes:
Ambient pressure and ambient temperature data were gathered from the Wunderground weather website (www.wunderground.com).
Data were collected from station KCASANFR588 at 1200.

°C - degrees Celsius
in Hg - inches of mercury

Attachment 1, Table 2: TSP and Metals Sampling Results

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

Attachment 1, Table 2: TSP and Metals Sampling Results

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

Attachment 1, Table 2: TSP and Metals Sampling Results

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

Attachment 1, Table 2: TSP and Metals Sampling Results

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

Attachment 1, Table 2: TSP and Metals Sampling Results

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

Attachment 1, Table 2: TSP and Metals Sampling Results

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

Attachment 1, Table 2: TSP and Metals Sampling Results

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

Attachment 1, Table 2: TSP and Metals Sampling Results

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

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
23-Jun-20	Upwind	9.7	0.0375	No	<0.027	No	<0.018	No	0.0281	No
23-Jun-20	Downwind	9.7	0.0273	No	<0.027	No	<0.018	No	0.0216	No
24-Jun-20	Upwind	9.7	0.0344	No	<0.027	No	<0.018	No	0.0206	No
24-Jun-20	Downwind	9.7	0.0297	No	<0.027	No	<0.018	No	0.0228	No
25-Jun-20	Upwind	9.7	0.0354	No	<0.027	No	<0.018	No	0.0251	No
25-Jun-20	Downwind	9.7	0.0201	No	<0.027	No	<0.018	No	0.0126	No
26-Jun-20	Upwind	9.6	0.0305	No	<0.027	No	<0.018	No	0.0108	No
26-Jun-20	Downwind	9.7	0.0229	No	<0.027	No	<0.018	No	0.0130	No
27-Jun-20	Upwind	9.7	0.0741	No	<0.027	No	0.028	No	0.0620	No
27-Jun-20	Downwind	9.5	0.0352	No	<0.027	No	<0.018	No	0.0162	No

Notes:

Note 1 - Sample not collected due to inclement conditions: Rain.

Note 2 - Samples were not collected as project site was closed for holidays.

Note 3 - Samples were not collected as no excavation was conducted.

Sample locations are shown on Figure 1.

The threshold criteria are as follows: TSP = 0.5 mg/m^3, arsenic = 10 $\mu g/m^3$, lead = 50 $\mu g/m^3$, manganese = 200 $\mu g/m^3$.

The detection limit for TSP is 0.06 $\mu g/m^3$ assuming a minimum sample volume of 1,600 m^3. The detection limits for arsenic, lead and manganese are 16 ng/m^3 assuming minimum sample volumes of 1,600 m^3.

$\mu g/m^3$ - micrograms per cubic meter
mg/m^3 - milligrams per cubic meter
N/A - not applicable
ng/m^3 - nanograms per cubic meter
TSP - total suspended particulates

Attachment 1, Table 3: PM10 Air Sampling Results

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

Attachment 1, Table 3: PM10 Air Sampling Results

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

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	PM10 Monitoring Results	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	PM10 Monitoring Results	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	PM10 Monitoring Results	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

Notes:
Note 1 - Sample not collected due to inclement conditions: Rain.
Note 2 - Samples were not collected as project site was closed for holidays.
Note 3 - Samples were not collected as no excavation was conducted.
Sample locations are shown on Figure 1.
The threshold criteria are as follows: Cal/OSHA PEL = 5,000 $\mu g/m^3$
The detection limit for PM10 is 0.06 $\mu g/m^3$ assuming a minimum sample volume of 1,600 m^3.

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

Attachment 1, Table 4: Asbestos Sampling Results

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

Attachment 1, Table 4: Asbestos Sampling Results

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

Attachment 1, Table 4: Asbestos Sampling Results

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

Attachment 1, Table 4: Asbestos Sampling Results

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

Attachment 1, Table 4: Asbestos Sampling Results

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

Attachment 1, Table 4: Asbestos Sampling Results

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

Attachment 1, Table 4: Asbestos Sampling Results

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

Attachment 1, Table 4: Asbestos Sampling Results

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

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
23-Jun-20	Upwind	9.7	0.0026	No
23-Jun-20	Downwind	9.7	<0.0023	No
24-Jun-20	Upwind	9.7	0.0026	No
24-Jun-20	Downwind	9.7	<0.0023	No
25-Jun-20	Upwind	9.7	<0.0023	No
25-Jun-20	Downwind	9.7	<0.0023	No
26-Jun-20	Upwind	9.6	0.0047	No
26-Jun-20	Downwind	9.7	<0.0023	No
27-Jun-20	Upwind	9.7	<0.0023	No
27-Jun-20	Downwind	9.5	0.0052	No

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

Laboratory Job ID: 570-31156-1
Client Project/Site: HPNS - Parcel E / 500712

For:
Aptim Federal Services LLC
4005 Port Chicago Hwy, Suite 200
Concord, California 94520

Attn: Eddie Kalombo

Terri Chang

Authorized for release by:
7/1/2020 5:35:51 PM

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

Table of Contents

Job ID: 570-31156-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-31156-1

Comments
No additional comments.

Receipt
The samples were received on 6/17/2020 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.

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

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

Sample Summary

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

Job ID: 570-31156-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-31156-1	PE-ASB052620-B606UPWIND	Air	05/26/20 07:03	06/17/20 11:00	
570-31156-2	PE-ASB052620-B606DOWNWIND	Air	05/26/20 07:19	06/17/20 11:00	
570-31156-3	PE-ASB052720-B606UPWIND	Air	05/27/20 07:00	06/17/20 11:00	
570-31156-4	PE-ASB052720-B606DOWNWIND	Air	05/27/20 07:12	06/17/20 11:00	
570-31156-5	PE-ASB052820-B606UPWIND	Air	05/28/20 07:01	06/17/20 11:00	
570-31156-6	PE-ASB052820-B606DOWNWIND	Air	05/28/20 07:14	06/17/20 11:00	
570-31156-7	PE-ASB052920-B606UPWIND	Air	05/29/20 07:06	06/17/20 11:00	
570-31156-8	PE-ASB052920-B606DOWNWIND	Air	05/29/20 07:15	06/17/20 11:00	
570-31156-9	PE-ASB-BLANK-B606UPWIND	Air	05/29/20 07:22	06/17/20 11:00	
570-31156-10	PE-ASB-BLANK-B606DOWNWIND	Air	05/29/20 07:22	06/17/20 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: 332011027
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: 06/18/2020 10:50 AM
Analysis Date: 06/30/2020
Collected Date: 05/26/2020 - 05/29/2020

Project: HPNS - Parcel E / 500712 / Project #570-31156

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-ASB052620-B606UPWIND (570-31156-1) *332011027-0001*		05/26/2020	1164	9	100	0.0023	11.5	0.0038	
PE-ASB052620-B606DOWNWIND (570-31156-2) *332011027-0002*		05/26/2020	1148	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB052720-B606UPWIND (570-31156-3) *332011027-0003*		05/27/2020	1148	15.5	100	0.0023	19.7	0.0066	
PE-ASB052720-B606DOWNWIND (570-31156-4) *332011027-0004*		05/27/2020	1146	<5.5	100	0.0024	<7.01	<0.0024	Sample pulled for 10% duplicate count.
PE-ASB052820-B606UPWIND (570-31156-5) *332011027-0005*		05/28/2020	1154	16	100	0.0023	20.4	0.0068	
PE-ASB052820-B606DOWNWIND (570-31156-6) *332011027-0006*		05/28/2020	1144	<5.5	100	0.0024	<7.01	<0.0024	
PE-ASB052920-B606UPWIND (570-31156-7) *332011027-0007*		05/29/2020	1138	<5.5	100	0.0024	<7.01	<0.0024	
PE-ASB052920-B606DOWNWIND (570-31156-8) *332011027-0008*		05/29/2020	1140	29	100	0.0024	36.9	0.0125	
PE-ASB-BLANK-B606UPWIND (570-31156-9) *332011027-0009*		05/29/2020		<5.5	100		<7.01		Field Blank
PE-ASB-BLANK-B606DOWNWIND (570-31156-10) *332011027-0010*		05/29/2020		<5.5	100		<7.01		Field Blank
PE-ASB052720-B606DOWNWIND (570-31156-4) Dup *332011027-0011*		05/27/2020	1146	5.5	100	0.0024	7.01	0.0024	10% duplicate count.

The results reported have been blank corrected as applicable.

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. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. Results have been blank corrected as applicable. The report reflects the samples as received. 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 = 0.38, 21-50 fibers = 0.23, 51-100 fibers = 0.21. 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: 06/30/2020 11:29 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: 332011027
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: 06/18/2020 10:50 AM
Analysis Date: 06/30/2020
Collected Date: 05/26/2020 - 05/29/2020

Project: HPNS - Parcel E / 500712 / Project #570-31156

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):
Dennies Ly PCM 11

Michael DeCavallas, Laboratory Manager
or other Approved Signatory

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. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. Results have been blank corrected as applicable. The report reflects the samples as received. 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 = 0.38, 21-50 fibers = 0.23, 51-100 fibers = 0.21. 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: 06/30/2020 11:29 AM

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 011

Page 2 of 2

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

Project Manager: *Nels Johnson*

Send Report To: *Eddie Kalombo*
Phone/Fax Number: *415.987.0760*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
eddie.kalombo@aptim.com

Sampler's Name(s): EKK

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 115718
Delivery Date: 6/16/2020
Waybill Number: NA
Lab Destination: 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	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 7300/6010	Flow Rate (L/min.)	Sample Volume (m^3)			
Analyses Requested																	
PE-ASB-BLANK-B606UPWIND	CU086033	05/29/20	7:22	G	A	1	PCM			X			2.00	0			
PE-ASB-BLANK-B606DOWNWIND	CU085966	05/29/20	7:22	G	A	1	PCM			X			2.00	0			
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: EDDIE KALOMBO	Date: 6.16.20	Received By:	Date: 6/17/2020
	Time: 1500		Time: 11:30
Relinquished By:	Date:	Received By:	Date:
	Time:		Time:

Method Codes
C = Composite G = Grab

Matrix Codes
DW = Drinking Water SO =Soil
GW = Ground Water SL = Sludge
WW = Waste Water CP = Chip Samples
A = Air ABS=Asbestos, PO=Pipe Openning

SAMPLE NO. **PE-ASB-BLANK-B606UPWIND** 5/29/2020 *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				
CU086033	2.0	2.0	2.0	5/29/20 07:22	5/29/20 07:22	0	0.0	Asbestos	2.00

SAMPLE NO. **PE-ASB-BLANK-B606DOWNWIND** 5/29/2020 *Building 606 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				
CU085966	2.0	2.0	2.0	5/29/20 07:22	5/29/20 07:22	0	0.0	Asbestos	2.00

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 011

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

570-31156 Chain of Custody

Project Manager: *Nels Johnson*

Send Report To: *Eddie Kalombo*
Phone/Fax Number: *415.987.0760*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
eddie.kalombo@aptim.com

Sampler's Name(s): EKK

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 115718
Delivery Date: 6/16/2020
Waybill Number: NA
Lab Destination: 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 7300/6010)	Flow Rate (L/min.)	Sample Volume (m^3)			
PE-ASB052620-B606UPWIND	CP822278	05/26/20	7:03	G	A	1	PCM			X			2.00	1.164			
PE-ASB052620-B606DOWNWIND	CP822356	05/26/20	7:19	G	A	1	PCM			X			2.00	1.148			
PE-ASB052720-B606UPWIND	CP822130	05/27/20	7:00	G	A	1	PCM			X			2.00	1.148			
PE-ASB052720-B606DOWNWIND	CP822266	05/27/20	7:12	G	A	1	PCM			X			2.00	1.146			
PE-ASB052820-B606UPWIND	CP822251	05/28/20	7:01	G	A	1	PCM			X			2.00	1.154			
PE-ASB052820-B606DOWNWIND	CP822313	05/28/20	7:14	G	A	1	PCM			X			2.00	1.144			
PE-ASB052920-B606UPWIND	CP822302	05/29/20	7:06	G	A	1	PCM			X			2.00	1.138			
PE-ASB052920-B606DOWNWIND	CP822272	05/29/20	7:15	G	A	1	PCM			X			2.00	1.14			
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: EDDIE KALOMBO Date: 6.16.20 Time: 1500

Received By: Date: 6/17/2020 Time: 11:00

Relinquished By: Date: Time:

Received By: Date: Time:

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

AIR MONITORING LOG

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

STATION COC# 011

SAMPLE NO. PE-ASB052620-B606UPWIND 5/26/2020 *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				
CP822278	2.0	2.0	2.0	5/26/20 07:03	5/26/20 16:45	582	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB052620-B606DOWNWIND 5/26/2020 *Building 606 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				
CP822356	2.0	2.0	2.0	5/26/20 07:19	5/26/20 16:53	574	1.1	Asbestos	2.00

SAMPLE NO. PE-ASB052720-B606UPWIND 5/27/2020 *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				
CP822130	2.0	2.0	2.0	5/27/20 07:00	5/27/20 16:34	574	1.1	Asbestos	2.00

SAMPLE NO. PE-ASB052720-B606DOWNWIND 5/27/2020 *Building 606 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				
CP822266	2.0	2.0	2.0	5/27/20 07:12	5/27/20 16:45	573	1.1	Asbestos	2.00

SAMPLE NO. PE-ASB052820-B606UPWIND 5/28/2020 *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				
CP822251	2.0	2.0	2.0	5/28/20 07:01	5/28/20 16:38	577	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB052820-B606DOWNWIND 5/28/2020 *Building 606 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				
CP822313	2.0	2.0	2.0	5/28/20 07:14	5/28/20 16:46	572	1.1	Asbestos	2.00

SAMPLE NO. PE-ASB052920-B606UPWIND 5/29/2020 *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				
CP822302	2.0	2.0	2.0	5/29/20 07:06	5/29/20 16:35	569	1.1	Asbestos	2.00

SAMPLE NO. PE-ASB052920-B606DOWNWIND 5/29/2020 *Building 606 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				
CP822272	2.0	2.0	2.0	5/29/20 07:15	5/29/20 16:45	570	1.1	Asbestos	2.00

570-31156 Waybill

NORM HANELT
9253838622
APTIM - ALAMEDA
APTIM FEDERAL SERVICES
ALAMEDA CA 94501

10 LBS

1 OF 1

DWT: 12,5,5

SHIP TO:
TERRI CHANG
714-895-5494
EUROFINS CALSCIENCE
7440 LINCOLN WAY
GARDEN GROVE CA 92841-1427

CA 927 9-09

UPS NEXT DAY AIR SAVER 1P

TRACKING #: 1Z 89V 462 13 9201 6390

BILLING: P/P

Charge to Coding: 00701.500712.4701.03012310
Sender's Name: Eddie Kalombo

CS 22.0.11. WNTNV50 28.0A 04/2020

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-31156-1

Login Number: 31156
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
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-31157-1
Client Project/Site: HPNS - Parcel E / 500712

For:
Aptim Federal Services LLC
4005 Port Chicago Hwy, Suite 200
Concord, California 94520

Attn: Eddie Kalombo

Terri Chang

Authorized for release by:
7/1/2020 5:45:45 PM

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

Table of Contents

Job ID: 570-31157-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-31157-1

Comments
No additional comments.

Receipt
The samples were received on 6/17/2020 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.

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

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

Sample Summary

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

Job ID: 570-31157-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-31157-1	PE-ASB060120-B606UPWIND	Air	06/01/20 07:10	06/17/20 11:00	
570-31157-2	PE-ASB060120-B606DOWNWIND	Air	06/01/20 07:26	06/17/20 11:00	
570-31157-3	PE-ASB060220-B606UPWIND	Air	06/02/20 07:00	06/17/20 11:00	
570-31157-4	PE-ASB060220-B606DOWNWIND	Air	06/02/20 07:11	06/17/20 11:00	
570-31157-5	PE-ASB060320-B606UPWIND	Air	06/03/20 07:00	06/17/20 11:00	
570-31157-6	PE-ASB060320-B606DOWNWIND	Air	06/03/20 07:11	06/17/20 11:00	
570-31157-7	PE-ASB060420-B606UPWIND	Air	06/04/20 07:02	06/17/20 11:00	
570-31157-8	PE-ASB060420-B606DOWNWIND	Air	06/04/20 07:10	06/17/20 11:00	
570-31157-9	PE-ASB060520-B606UPWIND	Air	06/05/20 07:01	06/17/20 11:00	
570-31157-10	PE-ASB060520-B606DOWNWIND	Air	06/05/20 07:12	06/17/20 11:00	
570-31157-11	PE-ASB-BLANK-B606UPWIND	Air	06/05/20 07:22	06/17/20 11:00	
570-31157-12	PE-ASB-BLANK-B606DOWNWIND	Air	06/05/20 07:22	06/17/20 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: 332011043
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: 06/18/2020 10:50 AM
Analysis Date: 06/30/2020
Collected Date: 06/01/2020 - 06/05/2020

Project: 570-31157 / HPNS - Parcel E / 500712

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

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm²	Fibers/cc	Notes
PE-ASB060120-B606UPW IND (570-31157-1) *332011043-0001*		06/01/2020	904	7	100	0.0030	8.92	0.0038	
PE-ASB060120-B606DOW NWIND (570-31157-2) *332011043-0002*		06/01/2020	888	<5.5	100	0.0030	<7.01	<0.0030	Samples pulled for 10% duplicate count.
PE-ASB060220-B606UPW IND (570-31157-3) *332011043-0003*		06/02/2020	912	<5.5	100	0.0030	<7.01	<0.0030	
PE-ASB060220-B606DOW NWIND (570-31157-4) *332011043-0004*		06/02/2020	916	6.5	100	0.0029	8.28	0.0035	
PE-ASB060320-B606UPW IND (570-31157-5) *332011043-0005*		06/03/2020	916	11	100	0.0029	14.0	0.0059	
PE-ASB060320-B606DOW NWIND (570-31157-6) *332011043-0006*		06/03/2020	908	<5.5	100	0.0030	<7.01	<0.0030	
PE-ASB060420-B606UPW IND (570-31157-7) *332011043-0007*		06/04/2020	1030	9.5	100	0.0026	12.1	0.0045	
PE-ASB060420-B606DOW NWIND (570-31157-8) *332011043-0008*		06/04/2020	910	<5.5	100	0.0030	<7.01	<0.0030	
PE-ASB060520-B606UPW IND (570-31157-9) *332011043-0009*		06/05/2020	898	6	100	0.0030	7.64	0.0033	
PE-ASB060520-B606DOW NWIND (570-31157-10) *332011043-0010*		06/05/2020	906	<5.5	100	0.0030	<7.01	<0.0030	
PE-ASB-BLANK-B606UP WIND (570-31157-11) *332011043-0011*		06/05/2020		<5.5	100		<7.01		Field Blank
PE-ASB-BLANK-B606DO WNWIND (570-31157-12) *332011043-0012*		06/05/2020		<5.5	100		<7.01		Field Blank
PE-ASB060120-B606DOW NWIND (570-31157-2) Dup *332011043-0013*		06/01/2020	888	<5.5	100	0.0030	<7.01	<0.0030	10% duplicate count.

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. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. Results have been blank corrected as applicable. The report reflects the samples as received. 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 = 0.38, 21-50 fibers = 0.23, 51-100 fibers = 0.21. 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: 06/30/2020 11:31 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: 332011043
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: 06/18/2020 10:50 AM
Analysis Date: 06/30/2020
Collected Date: 06/01/2020 - 06/05/2020

Project: 570-31157 / HPNS - Parcel E / 500712

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

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

The results reported have been blank corrected as applicable.

Analyst(s):
Dennies Ly PCM 13

Michael DeCavallas, Laboratory Manager
or other Approved Signatory

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. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. Results have been blank corrected as applicable. The report reflects the samples as received. 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 = 0.38, 21-50 fibers = 0.23, 51-100 fibers = 0.21. 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: 06/30/2020 11:31 AM

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 012

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

570-31157 Chain of Custody

Project Manager: *Nels Johnson*

Send Report To: *Eddie Kalombo*
Phone/Fax Number: *415.987.0760*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
eddie.kalombo@aptim.com

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 115718
Delivery Date: 6/16/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Sampler's Name(s): EKK

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 7300/6010	Flow Rate (L/min.)	Sample Volume (m^3)			
PE-ASB060120-B606UPWIND	CP822115	06/01/20	7:10	G	A	1	PCM			X			2.00	0.904			
PE-ASB060120-B606DOWNWIND	CP822161	06/01/20	7:26	G	A	1	PCM			X			2.00	0.888			
PE-ASB060220-B606UPWIND	CP822291	06/02/20	7:00	G	A	1	PCM			X			2.00	0.912			
PE-ASB060220-B606DOWNWIND	CP822331	06/02/20	7:11	G	A	1	PCM			X			2.00	0.916			
PE-ASB060320-B606UPWIND	CP822125	06/03/20	7:00	G	A	1	PCM			X			2.00	0.916			
PE-ASB060320-B606DOWNWIND	CP822317	06/03/20	7:11	G	A	1	PCM			X			2.00	0.908			
PE-ASB060420-B606UPWIND	CP822162	06/04/20	7:02	G	A	1	PCM			X			2.00	1.03			
PE-ASB060420-B606DOWNWIND	CP822287	06/04/20	7:10	G	A	1	PCM			X			2.00	0.91			
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: EDDIE KALOMBO Date: 6.16.20 Time: 1500

Received By: Date: 6/17/2020 Time: 11:00

Relinquished By: Date: Time:

Received By: Date: Time:

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

3/1157

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 012

Page 2 of 2

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

Project Manager: *Nels Johnson*

Send Report To: *Eddie Kalombo*
Phone/Fax Number: *415.987.0760*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
eddie.kalombo@aptim.com
Sampler's Name(s): EKK

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 115718
Delivery Date: 6/16/2020
Waybill Number: N/A
Lab Destination: 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 7300/6010	Flow Rate (L/min.)	Sample Volume (m^3)			
PE-ASB060520-B606UPWIND	CP822124	06/05/20	7:01	G	A	1	PCM			X			2.00	0.898			
PE-ASB060520-B606DOWNWIND	CP822134	06/05/20	7:12	G	A	1	PCM			X			2.00	0.906			
PE-ASB-BLANK-B606UPWIND	CU085971	06/05/20	7:22	G	A	1	PCM			X			2.00				
PE-ASB-BLANK-B606DOWNWIND	CU125093	06/05/20	7:22	G	A	1	PCM			X			2.00				
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: EDDIE KALOMBO, Date: 6.16.20 Time: 1500
Received By: Date: 6/17/2020 Time: 11:00
Relinquished By: Date: Time:
Received By: Date: Time:

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

7/1/2020

AIR MONITORING LOG

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

STATION COC# 012

SAMPLE NO. PE-ASB060120-B606UPWIND 6/1/2020 *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				
CP822115	2.0	2.0	2.0	6/01/20 07:10	6/01/20 14:42	452	0.9	Asbestos	2.00

SAMPLE NO. PE-ASB060120-B606DOWNWIND 6/1/2020 *Building 606 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				
CP822161	2.0	2.0	2.0	6/01/20 07:26	6/01/20 14:50	444	0.9	Asbestos	2.00

SAMPLE NO. PE-ASB060220-B606UPWIND 6/2/2020 *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				
CP822291	2.0	2.0	2.0	6/02/20 07:00	6/02/20 14:36	456	0.9	Asbestos	2.00

SAMPLE NO. PE-ASB060220-B606DOWNWIND 6/2/2020 *Building 606 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				
CP822331	2.0	2.0	2.0	6/02/20 07:11	6/02/20 14:49	458	0.9	Asbestos	2.00

SAMPLE NO. PE-ASB060320-B606UPWIND 6/3/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CP822125	2.0	2.0	2.0	6/03/20 07:00	6/03/20 14:38	458	0.9	Asbestos	2.00

SAMPLE NO. PE-ASB060320-B606DOWNWIND 6/3/2020 *Building 606 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				
CP822317	2.0	2.0	2.0	6/03/20 07:11	6/03/20 14:45	454	0.9	Asbestos	2.00

SAMPLE NO. PE-ASB060420-B606UPWIND 6/4/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CP822162	2.0	2.0	2.0	6/04/20 07:02	6/04/20 15:37	515	1.0	Asbestos	2.00

SAMPLE NO. PE-ASB060420-B606DOWNWIND 6/4/2020 *Building 606 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				
CP822287	2.0	2.0	2.0	6/04/20 07:10	6/04/20 14:45	455	0.9	Asbestos	2.00

7/11/24

SAMPLE NO. **PE-ASB060520-B606UPWIND** 6/5/2020 *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				
CP822124	2.0	2.0	2.0	6/05/20 07:01	6/05/20 14:30	449	0.9	Asbestos	2.00

SAMPLE NO. **PE-ASB060520-B606DOWNWIND** 6/5/2020 *Building 606 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				
CP822134	2.0	2.0	2.0	6/05/20 07:12	6/05/20 14:45	453	0.9	Asbestos	2.00

SAMPLE NO. **PE-ASB-BLANK-B606UPWIND** 6/5/2020 *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				
CU085971	2.0	2.0	2.0	6/05/20 07:22	6/05/20 07:22	0	0.0	Asbestos	2.00

SAMPLE NO. **PE-ASB-BLANK-B606DOWNWIND** 6/5/2020 *Building 606 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				
CU125093	2.0	2.0	2.0	6/05/20 07:22	6/05/20 07:22	0	0.0	Asbestos	2.00

570-31157 Waybill

NORM HANELT
9253838622
APTIM - ALAMEDA
APTIM FEDERAL SERVICES
ALAMEDA CA 94501

10 LBS

1 OF 1

DWT: 12,5,5

SHIP TO:
TERRI CHANG
714-895-5494
EUROFINS CALSCIENCE
7440 LINCOLN WAY
GARDEN GROVE CA 92841-1427

CA 927 9-09

UPS NEXT DAY AIR SAVER 1P

TRACKING #: 1Z 89V 462 13 9201 6390

BILLING: P/P

Charge to Coding: 00701.500712.4701.03012310
Sender's Name: Eddie Kalombo

CS 22.0.11. WNTNV50 28.0A 04/2020

2330
6390
1462139201
JUN 17 04118136 2020
DOORBB
HIP 20.3.0

UPS Next Day Air

EXTREMELY URGENT UPS Next Day Air

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-31157-1

Login Number: 31157
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
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-31161-1
Client Project/Site: HPNS - Parcel E / 500712

For:
Aptim Federal Services LLC
4005 Port Chicago Hwy, Suite 200
Concord, California 94520

Attn: Eddie Kalombo

Terri Chang

Authorized for release by:
7/1/2020 5:57:49 PM

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

Table of Contents

Job ID: 570-31161-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-31161-1

Comments
No additional comments.

Receipt
The samples were received on 6/17/2020 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.

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

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

Sample Summary

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

Job ID: 570-31161-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-31161-1	PE-ASB060820-B606UPWIND	Air	06/08/20 06:58	06/17/20 11:00	
570-31161-2	PE-ASB060820-B606DOWNWIND	Air	06/08/20 07:09	06/17/20 11:00	
570-31161-3	PE-ASB060920-B606UPWIND	Air	06/09/20 07:00	06/17/20 11:00	
570-31161-4	PE-ASB060920-B606DOWNWIND	Air	06/09/20 07:08	06/17/20 11:00	
570-31161-5	PE-ASB061020-B606UPWIND	Air	06/10/20 07:00	06/17/20 11:00	
570-31161-6	PE-ASB061020-B606DOWNWIND	Air	06/10/20 07:09	06/17/20 11:00	
570-31161-7	PE-ASB061120-B606UPWIND	Air	06/11/20 07:00	06/17/20 11:00	
570-31161-8	PE-ASB061120-B606DOWNWIND	Air	06/11/20 07:07	06/17/20 11:00	
570-31161-9	PE-ASB061220-B606UPWIND	Air	06/12/20 07:02	06/17/20 11:00	
570-31161-10	PE-ASB061220-B606DOWNWIND	Air	06/12/20 07:08	06/17/20 11:00	
570-31161-11	PE-ASB061320-B606UPWIND	Air	06/13/20 07:00	06/17/20 11:00	
570-31161-12	PE-ASB061320-B606DOWNWIND	Air	06/13/20 07:08	06/17/20 11:00	
570-31161-13	PE-ASB-BLANK-B606UPWIND	Air	06/13/20 07:22	06/17/20 11:00	
570-31161-14	PE-ASB-BLANK-B606DOWNWIND	Air	06/13/20 07:22	06/17/20 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: 332011034
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: 06/18/2020 10:50 AM
Analysis Date: 06/30/2020
Collected Date: 06/08/2020 - 06/13/2020

Project: HPNS - Parcel E / 500712 / Project #570-31161

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-ASB060820-B606UPWIND (570-31161-1) *332011034-0001*		06/08/2020	1174	11	100	0.0023	14.0	0.0046	
PE-ASB060820-B606DOWNWIND (570-31161-2) *332011034-0002*		06/08/2020	1168	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB060920-B606UPWIND (570-31161-3) *332011034-0003*		06/09/2020	1168	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB060920-B606DOWNWIND (570-31161-4) *332011034-0004*		06/09/2020	1172	7	100	0.0023	8.92	0.0029	
PE-ASB061020-B606UPWIND (570-31161-5) *332011034-0005*		06/10/2020	1166	9.5	100	0.0023	12.1	0.0040	
PE-ASB061020-B606DOWNWIND (570-31161-6) *332011034-0006*		06/10/2020	1174	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB061120-B606UPWIND (570-31161-7) *332011034-0007*		06/11/2020	1170	30	100	0.0023	38.2	0.0126	
PE-ASB061120-B606DOWNWIND (570-31161-8) *332011034-0008*		06/11/2020	1176	8	100	0.0023	10.2	0.0033	Sample pulled for 10% duplicate count.
PE-ASB061220-B606UPWIND (570-31161-9) *332011034-0009*		06/12/2020	1156	11	100	0.0023	14.0	0.0047	
PE-ASB061220-B606DOWNWIND (570-31161-10) *332011034-0010*		06/12/2020	1170	8	100	0.0023	10.2	0.0034	
PE-ASB061320-B606UPWIND (570-31161-11) *332011034-0011*		06/13/2020	1140	6	100	0.0024	7.64	0.0026	
PE-ASB061320-B606DOWNWIND (570-31162-12) *332011034-0012*		06/13/2020	1150	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB-BLANK-B606UPWIND (570-31161-13) *332011034-0013*		06/13/2020		<5.5	100		<7.01		Field Blank

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. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. Results have been blank corrected as applicable. The report reflects the samples as received. 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 = 0.38, 21-50 fibers = 0.23, 51-100 fibers = 0.21. 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: 06/30/2020 11:30 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: 332011034
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: 06/18/2020 10:50 AM
Analysis Date: 06/30/2020
Collected Date: 06/08/2020 - 06/13/2020

Project: HPNS - Parcel E / 500712 / Project #570-31161

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-ASB-BLANK-B606DO WNWIND (570-31164-14) *332011034-0014*		06/13/2020		<5.5	100		<7.01		Field Blank
PE-ASB061120-B606DOW NWIND (570-31161-8) Dup *332011034-0015*		06/11/2020	1176	12	100	0.0023	15.3	0.0050	10% duplicate count.

The results reported have been blank corrected as applicable.

Analyst(s):
Dennies Ly PCM 15

Michael DeCavallas, Laboratory Manager
or other Approved Signatory

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. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. Results have been blank corrected as applicable. The report reflects the samples as received. 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 = 0.38, 21-50 fibers = 0.23, 51-100 fibers = 0.21. 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: 06/30/2020 11:30 AM

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - Alk 013

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

570-31161 Chain of Custody

Project Manager: *Nels Johnson*

Send Report To: *Eddie Kalombo*
Phone/Fax Number: *415.987.0760*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
eddie.kalombo@aptim.com

Sampler's Name(s): EKK

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 115718
Delivery Date: 6/16/2020
Waybill Number: N/A
Lab Destination: 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 7300/6010	Flow Rate (L/min.)	Sample Volume (m^3)			
PE-ASB060820-B606UPWIND	CP822116	06/08/20	6:58	G	A	1	PCM			X			2.00	1.174			
PE-ASB060820-B606DOWNWIND	CP822138	06/08/20	7:09	G	A	1	PCM			X			2.00	1.168			
PE-ASB060920-B606UPWIND	CP822114	06/09/20	7:00	G	A	1	PCM			X			2.00	1.168			
PE-ASB060920-B606DOWNWIND	CP822325	06/09/20	7:08	G	A	1	PCM			X			2.00	1.172			
PE-ASB061020-B606UPWIND	CP822120	06/10/20	7:00	G	A	1	PCM			X			2.00	1.166			
PE-ASB061020-B606DOWNWIND	CP822128	06/10/20	7:09	G	A	1	PCM			X			2.00	1.174			
PE-ASB061120-B606UPWIND	CP822126	06/11/20	7:00	G	A	1	PCM			X			2.00	1.17			
PE-ASB061120-B606DOWNWIND	CP822294	06/11/20	7:07	G	A	1	PCM			X			2.00	1.176			
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:	Received By:	Date:
EDDIE KALOMBO	6.16.20		6/17/2020
	Time: 1500		Time: 11:00
Relinquished By:	Date:	Received By:	Date:
	Time:		Time:

Method Codes
C = Composite G = Grab

Matrix Codes
DW = Drinking Water SO =Soil
GW = Ground Water SL = Sludge
WW = Waste Water CP = Chip Samples
A = Air ABS=Asbestos, PO=Pipe Openning

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 013

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

Project Manager: *Nels Johnson*

Send Report To: *Eddie Kalombo*
Phone/Fax Number: *415.987.0760*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
eddie.kalombo@aptim.com

Sampler's Name(s): EKK

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 115718
Delivery Date: 6/16/2020
Waybill Number: N/A
Lab Destination: 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 7300/6010)	Flow Rate (L/min.)	Sample Volume (m^3)			
PE-ASB061220-B606UPWIND	CP822127	06/12/20	7:02	G	A	1	PCM			X			2.00	1.156			
PE-ASB061220-B606DOWNWIND	CP822322	06/12/20	7:08	G	A	1	PCM			X			2.00	1.17			
PE-ASB061320-B606UPWIND	CP822123	06/13/20	7:00	G	A	1	PCM			X			2.00	1.14			
PE-ASB061320-B606DOWNWIND	CP822137	06/13/20	7:08	G	A	1	PCM			X			2.00	1.15			
PE-ASB-BLANK-B606UPWIND	CU125097	06/13/20	7:22	G	A	1	PCM			X			2.00				
PE-ASB-BLANK-B606DOWNWIND	CU125122	06/13/20	7:22	G	A	1	PCM			X			2.00				
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: EDDIE KALOMBO Date: 6.16.20 Time: 1500
Received By: Date: 6/17/2020 Time: 11:00
Relinquished By: Date: Time:
Received By: Date: Time:

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

21191

AIR MONITORING LOG

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

STATION COC# 013

SAMPLE NO. PE-ASB060820-B606UPWIND 6/8/2020 *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				
CP822116	2.0	2.0	2.0	6/08/20 06:58	6/08/20 16:45	587	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB060820-B606DOWNWIND 6/8/2020 *Building 606 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				
CP822138	2.0	2.0	2.0	6/08/20 07:09	6/08/20 16:53	584	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB060920-B606UPWIND 6/9/2020 *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				
CP822114	2.0	2.0	2.0	6/09/20 07:00	6/09/20 16:44	584	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB060920-B606DOWNWIND 6/9/2020 *Building 606 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				
CP822325	2.0	2.0	2.0	6/09/20 07:08	6/09/20 16:54	586	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB061020-B606UPWIND 6/10/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CP822120	2.0	2.0	2.0	6/10/20 07:00	6/10/20 16:43	583	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB061020-B606DOWNWIND 6/10/2020 *Building 606 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				
CP822128	2.0	2.0	2.0	6/10/20 07:09	6/10/20 16:56	587	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB061120-B606UPWIND 6/11/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CP822126	2.0	2.0	2.0	6/11/20 07:00	6/11/20 16:45	585	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB061120-B606DOWNWIND 6/11/2020 *Building 606 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				
CP822294	2.0	2.0	2.0	6/11/20 07:07	6/11/20 16:55	588	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB061220-B606UPWIND** 6/12/2020 *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				
CP822127	2.0	2.0	2.0	6/12/20 07:02	6/12/20 16:40	578	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB061220-B606DOWNWIND** 6/12/2020 *Building 606 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				
CP822322	2.0	2.0	2.0	6/12/20 07:08	6/12/20 16:53	585	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB061320-B606UPWIND** 6/13/2020 *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				
CP822123	2.0	2.0	2.0	6/13/20 07:00	6/13/20 16:30	570	1.1	Asbestos	2.00

SAMPLE NO. **PE-ASB061320-B606DOWNWIND** 6/13/2020 *Building 606 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				
CP822137	2.0	2.0	2.0	6/13/20 07:08	6/13/20 16:43	575	1.1	Asbestos	2.00

SAMPLE NO. **PE-ASB-BLANK-B606UPWIND** 6/13/2020 *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				
CU125097	2.0	2.0	2.0	6/13/20 07:22	6/13/20 07:22	0	0.0	Asbestos	2.00

SAMPLE NO. **PE-ASB-BLANK-B606DOWNWIND** 6/13/2020 *Building 606 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				
CU125122	2.0	2.0	2.0	6/13/20 07:22	6/13/20 07:22	0	0.0	Asbestos	2.00

NORM HANELT
9253838622
APTIM - ALAMEDA
APTIM FEDERAL SERVICES
ALAMEDA CA 94501

10 LBS

1 OF 1

DWT: 12,5,5

SHIP TO:
TERRI CHANG
714-895-5494
EUROFINS CALSCIENCE
7440 LINCOLN WAY
GARDEN GROVE CA 92841-1427

CA 927 9-09

UPS NEXT DAY AIR SAVER 1P
TRACKING #: 1Z 89V 462 13 9201 6390

BILLING: P/P

Charge to Coding: 00701.500712.4701.03012310
Sender's Name: Eddie Kalombo

CS 22.0.11. WNTNVS0 28.0A 04/2020

570-31161 Waybill

1462189201 6390 2330
JUN 17 04:18:38 2020

EXTREMELY URGENT UPS Next Day Air

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-31161-1

Login Number: 31161
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: 570-31163-1
Client Project/Site: HPNS - Parcel E / 500712

For:
Aptim Federal Services LLC
4005 Port Chicago Hwy, Suite 200
Concord, California 94520

Attn: Eddie Kalombo

Terri Chang

Authorized for release by:
7/1/2020 6:04:19 PM

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

Table of Contents

Definitions/Glossary

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

Job ID: 570-31163-1

Qualifiers

Metals

Qualifier	Qualifier Description
L	A negative instrument reading had an absolute value greater than the reporting limit

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: 570-31163-1

Job ID: 570-31163-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-31163-1

Comments
No additional comments.

Receipt
The samples were received on 6/17/2020 11:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 22.0º C.

Metals
Method 6010B: The absolute response for Manganese was greater than the method reporting limit (RL) in the following sample: (MB 570-78460/1-A).
The instrument raw data has been manually reviewed and the result can be reported as ND.

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.

Detection Summary

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

Job ID: 570-31163-1

Client Sample ID: PE-TSP060820-B606UPWIND — Lab Sample ID: 570-31163-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	30.2		4.51		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP060820-B606DOWNWIND — Lab Sample ID: 570-31163-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	25.5		4.53		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM060820-B606UPWIND — Lab Sample ID: 570-31163-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	20.0		4.51		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM060820-B606DOWNWIND — Lab Sample ID: 570-31163-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	25.7		4.53		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP060920-B606UPWIND — Lab Sample ID: 570-31163-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	44.3		4.53		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP060920-B606DOWNWIND — Lab Sample ID: 570-31163-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	29.5		4.52		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM060920-B606UPWIND — Lab Sample ID: 570-31163-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	28.3		4.53		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM060920-B606DOWNWIND — Lab Sample ID: 570-31163-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	35.7		4.52		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP061020-B606UPWIND — Lab Sample ID: 570-31163-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	6.03		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	47.8		4.54		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP061020-B606DOWNWIND — Lab Sample ID: 570-31163-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	33.5		4.51		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM061020-B606UPWIND — Lab Sample ID: 570-31163-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	26.0		4.54		ug/m3	1		PM10	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 570-31163-1

Client Sample ID: APTIMPM061020-B606DOWNWIND — Lab Sample ID: 570-31163-12

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	35.0		4.51		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP061120-B606UPWIND — Lab Sample ID: 570-31163-13

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	43.8		4.53		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP061120-B606DOWNWIND — Lab Sample ID: 570-31163-14

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	32.3		4.50		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM061120-B606UPWIND — Lab Sample ID: 570-31163-15

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	24.8		4.51		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM061120-B606DOWNWIND — Lab Sample ID: 570-31163-16

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	32.7		4.50		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP061220-B606UPWIND — Lab Sample ID: 570-31163-17

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	32.8		4.58		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP061220-B606DOWNWIND — Lab Sample ID: 570-31163-18

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	20.1		4.53		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM061220-B606UPWIND — Lab Sample ID: 570-31163-19

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	20.9		4.58		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM061220-B606DOWNWIND — Lab Sample ID: 570-31163-20

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	22.0		4.53		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP061320-B606UPWIND — Lab Sample ID: 570-31163-21

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	8.92		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	37.0		4.65		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP061320-B606DOWNWIND — Lab Sample ID: 570-31163-22

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	15.4		4.61		ug/m3	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 570-31163-1

Client Sample ID: APTIMPM061320-B606UPWIND — Lab Sample ID: 570-31163-23

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	20.8		4.65		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM061320-B606DOWNWIND — Lab Sample ID: 570-31163-24

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	17.3		4.61		ug/m3	1		PM10	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP060820-B606UPWIND
Date Collected: 06/08/20 06:58
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31163-1
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 01:19	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	07/01/20 01:19	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	07/01/20 01:19	1

Client Sample ID: PE-TSP060820-B606DOWNWIND
Date Collected: 06/08/20 07:09
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31163-2
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 02:27	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	07/01/20 02:27	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	07/01/20 02:27	1

Client Sample ID: PE-TSP060920-B606UPWIND
Date Collected: 06/09/20 07:00
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31163-5
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 01:26	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	07/01/20 01:26	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	07/01/20 01:26	1

Client Sample ID: PE-TSP060920-B606DOWNWIND
Date Collected: 06/09/20 07:08
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31163-6
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 01:28	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	07/01/20 01:28	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	07/01/20 01:28	1

Client Sample ID: PE-TSP061020-B606UPWIND
Date Collected: 06/10/20 07:00
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31163-9
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 01:30	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	07/01/20 01:30	1
Manganese	**6.03**		6.00		ug/Sample		06/29/20 22:00	07/01/20 01:30	1

Client Sample ID: PE-TSP061020-B606DOWNWIND
Date Collected: 06/10/20 07:09
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31163-10
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 01:33	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	07/01/20 01:33	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	07/01/20 01:33	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP061120-B606UPWIND
Date Collected: 06/11/20 07:00
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31163-13
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 01:35	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	07/01/20 01:35	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	07/01/20 01:35	1

Client Sample ID: PE-TSP061120-B606DOWNWIND
Date Collected: 06/11/20 07:07
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31163-14
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 01:37	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	07/01/20 01:37	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	07/01/20 01:37	1

Client Sample ID: PE-TSP061220-B606UPWIND
Date Collected: 06/12/20 07:02
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31163-17
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 01:40	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	07/01/20 01:40	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	07/01/20 01:40	1

Client Sample ID: PE-TSP061220-B606DOWNWIND
Date Collected: 06/12/20 07:08
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31163-18
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 01:52	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	07/01/20 01:52	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	07/01/20 01:52	1

Client Sample ID: PE-TSP061320-B606UPWIND
Date Collected: 06/13/20 07:00
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31163-21
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 01:54	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	07/01/20 01:54	1
Manganese	**8.92**		6.00		ug/Sample		06/29/20 22:00	07/01/20 01:54	1

Client Sample ID: PE-TSP061320-B606DOWNWIND
Date Collected: 06/13/20 07:08
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31163-22
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 01:56	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	07/01/20 01:56	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	07/01/20 01:56	1

General Chemistry

Client Sample ID: PE-TSP060820-B606UPWIND
Date Collected: 06/08/20 06:58
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31163-1
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	30.2		4.51		ug/m3			06/24/20 19:00	1

Client Sample ID: PE-TSP060820-B606DOWNWIND
Date Collected: 06/08/20 07:09
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31163-2
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	25.5		4.53		ug/m3			06/24/20 19:00	1

Client Sample ID: APTIMPM060820-B606UPWIND
Date Collected: 06/08/20 06:58
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31163-3
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	20.0		4.51		ug/m3			06/25/20 12:53	1

Client Sample ID: APTIMPM060820-B606DOWNWIND
Date Collected: 06/08/20 07:09
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31163-4
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	25.7		4.53		ug/m3			06/25/20 12:53	1

Client Sample ID: PE-TSP060920-B606UPWIND
Date Collected: 06/09/20 07:00
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31163-5
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	44.3		4.53		ug/m3			06/24/20 19:00	1

Client Sample ID: PE-TSP060920-B606DOWNWIND
Date Collected: 06/09/20 07:08
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31163-6
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	29.5		4.52		ug/m3			06/24/20 19:00	1

Client Sample ID: APTIMPM060920-B606UPWIND
Date Collected: 06/09/20 07:00
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31163-7
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	28.3		4.53		ug/m3			06/25/20 12:53	1

Client Sample ID: APTIMPM060920-B606DOWNWIND
Date Collected: 06/09/20 07:08
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31163-8
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	35.7		4.52		ug/m3			06/25/20 12:53	1

General Chemistry

Client Sample ID: PE-TSP061020-B606UPWIND — **Lab Sample ID: 570-31163-9**
Date Collected: 06/10/20 07:00 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	47.8		4.54		ug/m3			06/24/20 19:00	1

Client Sample ID: PE-TSP061020-B606DOWNWIND — **Lab Sample ID: 570-31163-10**
Date Collected: 06/10/20 07:09 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	33.5		4.51		ug/m3			06/24/20 19:00	1

Client Sample ID: APTIMPM061020-B606UPWIND — **Lab Sample ID: 570-31163-11**
Date Collected: 06/10/20 07:00 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	26.0		4.54		ug/m3			06/25/20 12:53	1

Client Sample ID: APTIMPM061020-B606DOWNWIND — **Lab Sample ID: 570-31163-12**
Date Collected: 06/10/20 07:09 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	35.0		4.51		ug/m3			06/25/20 12:53	1

Client Sample ID: PE-TSP061120-B606UPWIND — **Lab Sample ID: 570-31163-13**
Date Collected: 06/11/20 07:00 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	43.8		4.53		ug/m3			06/24/20 19:00	1

Client Sample ID: PE-TSP061120-B606DOWNWIND — **Lab Sample ID: 570-31163-14**
Date Collected: 06/11/20 07:07 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	32.3		4.50		ug/m3			06/24/20 19:00	1

Client Sample ID: APTIMPM061120-B606UPWIND — **Lab Sample ID: 570-31163-15**
Date Collected: 06/11/20 07:00 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	24.8		4.51		ug/m3			06/25/20 12:53	1

Client Sample ID: APTIMPM061120-B606DOWNWIND — **Lab Sample ID: 570-31163-16**
Date Collected: 06/11/20 07:07 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	32.7		4.50		ug/m3			06/25/20 12:53	1

General Chemistry

Client Sample ID: PE-TSP061220-B606UPWIND — **Lab Sample ID: 570-31163-17**
Date Collected: 06/12/20 07:02 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	32.8		4.58		ug/m3			06/24/20 19:00	1

Client Sample ID: PE-TSP061220-B606DOWNWIND — **Lab Sample ID: 570-31163-18**
Date Collected: 06/12/20 07:08 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	20.1		4.53		ug/m3			06/24/20 19:00	1

Client Sample ID: APTIMPM061220-B606UPWIND — **Lab Sample ID: 570-31163-19**
Date Collected: 06/12/20 07:02 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	20.9		4.58		ug/m3			06/25/20 12:53	1

Client Sample ID: APTIMPM061220-B606DOWNWIND — **Lab Sample ID: 570-31163-20**
Date Collected: 06/12/20 07:08 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	22.0		4.53		ug/m3			06/25/20 12:53	1

Client Sample ID: PE-TSP061320-B606UPWIND — **Lab Sample ID: 570-31163-21**
Date Collected: 06/13/20 07:00 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	37.0		4.65		ug/m3			06/24/20 19:00	1

Client Sample ID: PE-TSP061320-B606DOWNWIND — **Lab Sample ID: 570-31163-22**
Date Collected: 06/13/20 07:08 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	15.4		4.61		ug/m3			06/24/20 19:00	1

Client Sample ID: APTIMPM061320-B606UPWIND — **Lab Sample ID: 570-31163-23**
Date Collected: 06/13/20 07:00 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	20.8		4.65		ug/m3			06/25/20 12:53	1

Client Sample ID: APTIMPM061320-B606DOWNWIND — **Lab Sample ID: 570-31163-24**
Date Collected: 06/13/20 07:08 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	17.3		4.61		ug/m3			06/25/20 12:53	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-78460/1-A
Matrix: Air
Analysis Batch: 78908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 78460

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 01:00	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	07/01/20 01:00	1
Manganese	ND	L	6.00		ug/Sample		06/29/20 22:00	07/01/20 01:00	1

Lab Sample ID: LCS 570-78460/2-A
Matrix: Air
Analysis Batch: 78908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 78460

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			600	532.8		ug/Sample		89	80 - 120		
Lead			600	561.8		ug/Sample		94	80 - 120		
Manganese			600	562.2		ug/Sample		94	80 - 120		

Lab Sample ID: LCSD 570-78460/3-A
Matrix: Air
Analysis Batch: 78908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 78460

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic			600	571.0		ug/Sample		95	80 - 120	7	20
Lead			600	600.6		ug/Sample		100	80 - 120	7	20
Manganese			600	576.7		ug/Sample		96	80 - 120	3	20

Lab Sample ID: 570-31163-1 MS
Matrix: Air
Analysis Batch: 78908

Client Sample ID: PE-TSP060820-B606UPWIND
Prep Type: Total/NA
Prep Batch: 78460

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	ND		600	464.7		ug/Sample		76	75 - 125		
Lead	ND		600	475.5		ug/Sample		78	75 - 125		
Manganese	ND		600	449.9		ug/Sample		75	75 - 125		

Lab Sample ID: 570-31163-1 MSD
Matrix: Air
Analysis Batch: 78908

Client Sample ID: PE-TSP060820-B606UPWIND
Prep Type: Total/NA
Prep Batch: 78460

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		600	502.7		ug/Sample		83	75 - 125	8	20
Lead	ND		600	533.7		ug/Sample		88	75 - 125	12	20
Manganese	ND		600	503.7		ug/Sample		84	75 - 125	11	20

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

Lab Sample ID: MB 570-78686/1-A
Matrix: Air
Analysis Batch: 78690

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	ND		1.23		ug/m3			06/24/20 19:00	1

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

Lab Sample ID: 570-31163-22 DU
Matrix: Air
Analysis Batch: 78690

Client Sample ID: PE-TSP061320-B606DOWNWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	15.4			15.05		ug/m3				2	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-77761/1
Matrix: Air
Analysis Batch: 77761

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		1.23		ug/m3			06/25/20 12:53	1

Lab Sample ID: 570-31163-24 DU
Matrix: Air
Analysis Batch: 77761

Client Sample ID: APTIMPM061320-B606DOWNWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	17.3			17.50		ug/m3				0.9	25

Metals

Prep Batch: 78460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-31163-1	PE-TSP060820-B606UPWIND	Total/NA	Air	3050B	
570-31163-2	PE-TSP060820-B606DOWNWIND	Total/NA	Air	3050B	
570-31163-5	PE-TSP060920-B606UPWIND	Total/NA	Air	3050B	
570-31163-6	PE-TSP060920-B606DOWNWIND	Total/NA	Air	3050B	
570-31163-9	PE-TSP061020-B606UPWIND	Total/NA	Air	3050B	
570-31163-10	PE-TSP061020-B606DOWNWIND	Total/NA	Air	3050B	
570-31163-13	PE-TSP061120-B606UPWIND	Total/NA	Air	3050B	
570-31163-14	PE-TSP061120-B606DOWNWIND	Total/NA	Air	3050B	
570-31163-17	PE-TSP061220-B606UPWIND	Total/NA	Air	3050B	
570-31163-18	PE-TSP061220-B606DOWNWIND	Total/NA	Air	3050B	
570-31163-21	PE-TSP061320-B606UPWIND	Total/NA	Air	3050B	
570-31163-22	PE-TSP061320-B606DOWNWIND	Total/NA	Air	3050B	
MB 570-78460/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-78460/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-78460/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-31163-1 MS	PE-TSP060820-B606UPWIND	Total/NA	Air	3050B	
570-31163-1 MSD	PE-TSP060820-B606UPWIND	Total/NA	Air	3050B	

Analysis Batch: 78908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-31163-1	PE-TSP060820-B606UPWIND	Total/NA	Air	6010B	78460
570-31163-2	PE-TSP060820-B606DOWNWIND	Total/NA	Air	6010B	78460
570-31163-5	PE-TSP060920-B606UPWIND	Total/NA	Air	6010B	78460
570-31163-6	PE-TSP060920-B606DOWNWIND	Total/NA	Air	6010B	78460
570-31163-9	PE-TSP061020-B606UPWIND	Total/NA	Air	6010B	78460
570-31163-10	PE-TSP061020-B606DOWNWIND	Total/NA	Air	6010B	78460
570-31163-13	PE-TSP061120-B606UPWIND	Total/NA	Air	6010B	78460
570-31163-14	PE-TSP061120-B606DOWNWIND	Total/NA	Air	6010B	78460
570-31163-17	PE-TSP061220-B606UPWIND	Total/NA	Air	6010B	78460
570-31163-18	PE-TSP061220-B606DOWNWIND	Total/NA	Air	6010B	78460
570-31163-21	PE-TSP061320-B606UPWIND	Total/NA	Air	6010B	78460
570-31163-22	PE-TSP061320-B606DOWNWIND	Total/NA	Air	6010B	78460
MB 570-78460/1-A	Method Blank	Total/NA	Air	6010B	78460
LCS 570-78460/2-A	Lab Control Sample	Total/NA	Air	6010B	78460
LCSD 570-78460/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	78460
570-31163-1 MS	PE-TSP060820-B606UPWIND	Total/NA	Air	6010B	78460
570-31163-1 MSD	PE-TSP060820-B606UPWIND	Total/NA	Air	6010B	78460

General Chemistry

Analysis Batch: 77761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-31163-3	APTIMPM060820-B606UPWIND	Total/NA	Air	PM10	
570-31163-4	APTIMPM060820-B606DOWNWIND	Total/NA	Air	PM10	
570-31163-7	APTIMPM060920-B606UPWIND	Total/NA	Air	PM10	
570-31163-8	APTIMPM060920-B606DOWNWIND	Total/NA	Air	PM10	
570-31163-11	APTIMPM061020-B606UPWIND	Total/NA	Air	PM10	
570-31163-12	APTIMPM061020-B606DOWNWIND	Total/NA	Air	PM10	
570-31163-15	APTIMPM061120-B606UPWIND	Total/NA	Air	PM10	
570-31163-16	APTIMPM061120-B606DOWNWIND	Total/NA	Air	PM10	
570-31163-19	APTIMPM061220-B606UPWIND	Total/NA	Air	PM10	

General Chemistry (Continued)

Analysis Batch: 77761 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-31163-20	APTIMPM061220-B606DOWNWIND	Total/NA	Air	PM10	
570-31163-23	APTIMPM061320-B606UPWIND	Total/NA	Air	PM10	
570-31163-24	APTIMPM061320-B606DOWNWIND	Total/NA	Air	PM10	
MB 570-77761/1	Method Blank	Total/NA	Air	PM10	
570-31163-24 DU	APTIMPM061320-B606DOWNWIND	Total/NA	Air	PM10	

Pre Prep Batch: 78686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-31163-1	PE-TSP060820-B606UPWIND	Total/NA	Air	Filter to Air	
570-31163-2	PE-TSP060820-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-31163-5	PE-TSP060920-B606UPWIND	Total/NA	Air	Filter to Air	
570-31163-6	PE-TSP060920-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-31163-9	PE-TSP061020-B606UPWIND	Total/NA	Air	Filter to Air	
570-31163-10	PE-TSP061020-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-31163-13	PE-TSP061120-B606UPWIND	Total/NA	Air	Filter to Air	
570-31163-14	PE-TSP061120-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-31163-17	PE-TSP061220-B606UPWIND	Total/NA	Air	Filter to Air	
570-31163-18	PE-TSP061220-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-31163-21	PE-TSP061320-B606UPWIND	Total/NA	Air	Filter to Air	
570-31163-22	PE-TSP061320-B606DOWNWIND	Total/NA	Air	Filter to Air	
MB 570-78686/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-31163-22 DU	PE-TSP061320-B606DOWNWIND	Total/NA	Air	Filter to Air	

Analysis Batch: 78690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-31163-1	PE-TSP060820-B606UPWIND	Total/NA	Air	40CFR50 App B	78686
570-31163-2	PE-TSP060820-B606DOWNWIND	Total/NA	Air	40CFR50 App B	78686
570-31163-5	PE-TSP060920-B606UPWIND	Total/NA	Air	40CFR50 App B	78686
570-31163-6	PE-TSP060920-B606DOWNWIND	Total/NA	Air	40CFR50 App B	78686
570-31163-9	PE-TSP061020-B606UPWIND	Total/NA	Air	40CFR50 App B	78686
570-31163-10	PE-TSP061020-B606DOWNWIND	Total/NA	Air	40CFR50 App B	78686
570-31163-13	PE-TSP061120-B606UPWIND	Total/NA	Air	40CFR50 App B	78686
570-31163-14	PE-TSP061120-B606DOWNWIND	Total/NA	Air	40CFR50 App B	78686
570-31163-17	PE-TSP061220-B606UPWIND	Total/NA	Air	40CFR50 App B	78686
570-31163-18	PE-TSP061220-B606DOWNWIND	Total/NA	Air	40CFR50 App B	78686
570-31163-21	PE-TSP061320-B606UPWIND	Total/NA	Air	40CFR50 App B	78686
570-31163-22	PE-TSP061320-B606DOWNWIND	Total/NA	Air	40CFR50 App B	78686
MB 570-78686/1-A	Method Blank	Total/NA	Air	40CFR50 App B	78686
570-31163-22 DU	PE-TSP061320-B606DOWNWIND	Total/NA	Air	40CFR50 App B	78686

Lab Chronicle

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

Job ID: 570-31163-1

Client Sample ID: PE-TSP060820-B606UPWIND
Lab Sample ID: 570-31163-1
Date Collected: 06/08/20 06:58
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78460	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	07/01/20 01:19	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78686	06/24/20 18:30	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78690	06/24/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP060820-B606DOWNWIND
Lab Sample ID: 570-31163-2
Date Collected: 06/08/20 07:09
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78460	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	07/01/20 02:27	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78686	06/24/20 18:30	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78690	06/24/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM060820-B606UPWIND
Lab Sample ID: 570-31163-3
Date Collected: 06/08/20 06:58
Matrix: Air
Date Received: 06/17/20 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	4.5258 g	4.5391 g	77761	06/25/20 12:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM060820-B606DOWNWIND
Lab Sample ID: 570-31163-4
Date Collected: 06/08/20 07:09
Matrix: Air
Date Received: 06/17/20 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	4.5223 g	4.5393 g	77761	06/25/20 12:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP060920-B606UPWIND
Lab Sample ID: 570-31163-5
Date Collected: 06/09/20 07:00
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78460	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	07/01/20 01:26	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78686	06/24/20 18:30	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78690	06/24/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-31163-1

Client Sample ID: PE-TSP060920-B606DOWNWIND
Lab Sample ID: 570-31163-6
Date Collected: 06/09/20 07:08
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78460	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	07/01/20 01:28	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78686	06/24/20 18:30	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78690	06/24/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM060920-B606UPWIND
Lab Sample ID: 570-31163-7
Date Collected: 06/09/20 07:00
Matrix: Air
Date Received: 06/17/20 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	4.3585 g	4.3772 g	77761	06/25/20 12:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM060920-B606DOWNWIND
Lab Sample ID: 570-31163-8
Date Collected: 06/09/20 07:08
Matrix: Air
Date Received: 06/17/20 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	4.3500 g	4.3737 g	77761	06/25/20 12:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061020-B606UPWIND
Lab Sample ID: 570-31163-9
Date Collected: 06/10/20 07:00
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78460	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	07/01/20 01:30	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78686	06/24/20 18:30	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78690	06/24/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061020-B606DOWNWIND
Lab Sample ID: 570-31163-10
Date Collected: 06/10/20 07:09
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78460	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	07/01/20 01:33	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78686	06/24/20 18:30	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78690	06/24/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-31163-1

Client Sample ID: APTIMPM061020-B606UPWIND
Lab Sample ID: 570-31163-11
Date Collected: 06/10/20 07:00
Matrix: Air
Date Received: 06/17/20 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	4.3618 g	4.3790 g	77761	06/25/20 12:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM061020-B606DOWNWIND
Lab Sample ID: 570-31163-12
Date Collected: 06/10/20 07:09
Matrix: Air
Date Received: 06/17/20 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	4.3348 g	4.3581 g	77761	06/25/20 12:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061120-B606UPWIND
Lab Sample ID: 570-31163-13
Date Collected: 06/11/20 07:00
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78460	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	07/01/20 01:35	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78686	06/24/20 18:30	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78690	06/24/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061120-B606DOWNWIND
Lab Sample ID: 570-31163-14
Date Collected: 06/11/20 07:07
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78460	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	07/01/20 01:37	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78686	06/24/20 18:30	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78690	06/24/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM061120-B606UPWIND
Lab Sample ID: 570-31163-15
Date Collected: 06/11/20 07:00
Matrix: Air
Date Received: 06/17/20 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	4.3565 g	4.3730 g	77761	06/25/20 12:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-31163-1

Client Sample ID: APTIMPM061120-B606DOWNWIND
Lab Sample ID: 570-31163-16
Date Collected: 06/11/20 07:07
Matrix: Air
Date Received: 06/17/20 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	4.3508 g	4.3726 g	77761	06/25/20 12:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061220-B606UPWIND
Lab Sample ID: 570-31163-17
Date Collected: 06/12/20 07:02
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78460	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	07/01/20 01:40	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78686	06/24/20 18:30	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78690	06/24/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061220-B606DOWNWIND
Lab Sample ID: 570-31163-18
Date Collected: 06/12/20 07:08
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78460	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	07/01/20 01:52	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78686	06/24/20 18:30	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78690	06/24/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM061220-B606UPWIND
Lab Sample ID: 570-31163-19
Date Collected: 06/12/20 07:02
Matrix: Air
Date Received: 06/17/20 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	4.3428 g	4.3565 g	77761	06/25/20 12:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM061220-B606DOWNWIND
Lab Sample ID: 570-31163-20
Date Collected: 06/12/20 07:08
Matrix: Air
Date Received: 06/17/20 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	4.3595 g	4.3741 g	77761	06/25/20 12:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-31163-1

Client Sample ID: PE-TSP061320-B606UPWIND
Lab Sample ID: 570-31163-21
Date Collected: 06/13/20 07:00
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78460	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	07/01/20 01:54	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78686	06/24/20 18:30	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78690	06/24/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061320-B606DOWNWIND
Lab Sample ID: 570-31163-22
Date Collected: 06/13/20 07:08
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78460	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	07/01/20 01:56	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78686	06/24/20 18:30	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78690	06/24/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM061320-B606UPWIND
Lab Sample ID: 570-31163-23
Date Collected: 06/13/20 07:00
Matrix: Air
Date Received: 06/17/20 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	4.3743 g	4.3877 g	77761	06/25/20 12:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM061320-B606DOWNWIND
Lab Sample ID: 570-31163-24
Date Collected: 06/13/20 07:08
Matrix: Air
Date Received: 06/17/20 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	4.3668 g	4.3781 g	77761	06/25/20 12:53	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

Accreditation/Certification Summary

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

Job ID: 570-31163-1

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	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

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

Job ID: 570-31163-1

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
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

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

Sample Summary

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

Job ID: 570-31163-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-31163-1	PE-TSP060820-B606UPWIND	Air	06/08/20 06:58	06/17/20 11:00	
570-31163-2	PE-TSP060820-B606DOWNWIND	Air	06/08/20 07:09	06/17/20 11:00	
570-31163-3	APTIMPM060820-B606UPWIND	Air	06/08/20 06:58	06/17/20 11:00	
570-31163-4	APTIMPM060820-B606DOWNWIND	Air	06/08/20 07:09	06/17/20 11:00	
570-31163-5	PE-TSP060920-B606UPWIND	Air	06/09/20 07:00	06/17/20 11:00	
570-31163-6	PE-TSP060920-B606DOWNWIND	Air	06/09/20 07:08	06/17/20 11:00	
570-31163-7	APTIMPM060920-B606UPWIND	Air	06/09/20 07:00	06/17/20 11:00	
570-31163-8	APTIMPM060920-B606DOWNWIND	Air	06/09/20 07:08	06/17/20 11:00	
570-31163-9	PE-TSP061020-B606UPWIND	Air	06/10/20 07:00	06/17/20 11:00	
570-31163-10	PE-TSP061020-B606DOWNWIND	Air	06/10/20 07:09	06/17/20 11:00	
570-31163-11	APTIMPM061020-B606UPWIND	Air	06/10/20 07:00	06/17/20 11:00	
570-31163-12	APTIMPM061020-B606DOWNWIND	Air	06/10/20 07:09	06/17/20 11:00	
570-31163-13	PE-TSP061120-B606UPWIND	Air	06/11/20 07:00	06/17/20 11:00	
570-31163-14	PE-TSP061120-B606DOWNWIND	Air	06/11/20 07:07	06/17/20 11:00	
570-31163-15	APTIMPM061120-B606UPWIND	Air	06/11/20 07:00	06/17/20 11:00	
570-31163-16	APTIMPM061120-B606DOWNWIND	Air	06/11/20 07:07	06/17/20 11:00	
570-31163-17	PE-TSP061220-B606UPWIND	Air	06/12/20 07:02	06/17/20 11:00	
570-31163-18	PE-TSP061220-B606DOWNWIND	Air	06/12/20 07:08	06/17/20 11:00	
570-31163-19	APTIMPM061220-B606UPWIND	Air	06/12/20 07:02	06/17/20 11:00	
570-31163-20	APTIMPM061220-B606DOWNWIND	Air	06/12/20 07:08	06/17/20 11:00	
570-31163-21	PE-TSP061320-B606UPWIND	Air	06/13/20 07:00	06/17/20 11:00	
570-31163-22	PE-TSP061320-B606DOWNWIND	Air	06/13/20 07:08	06/17/20 11:00	
570-31163-23	APTIMPM061320-B606UPWIND	Air	06/13/20 07:00	06/17/20 11:00	
570-31163-24	APTIMPM061320-B606DOWNWIND	Air	06/13/20 07:08	06/17/20 11:00	

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - All . . .

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

570-31163 Chain of Custody

Project Manager: *Nels Johnson*

Send Report To: *Eddie Kalombo*
Phone/Fax Number: *415.987.0760*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
eddie.kalombo@aptim.com

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 1155718
Delivery Date: 6/16/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Sampler's Name(s): EKK

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 7300/6010	Flow Rate (L/min.)	Sample Volume (m^3)			
PE-TSP060820-B606UPWIND	763	06/08/20	6:58	G	A	1	8X10 EPM Whatman					X	1132.8	664.954			
PE-TSP060820-B606DOWNWIND	764	06/08/20	7:09	G	A	1	8X10 EPM Whatman					X	1132.8	661.555			
APTIMPM060820-B606UPWIND	Q0398608	06/08/20	6:58	G	A	1	8X10 EPM Whatman				X		1132.8	664.954			
APTIMPM060820-B606DOWNWIND	Q0398609	06/08/20	7:09	G	A	1	8X10 EPM Whatman				X		1132.80	661.555			
PE-TSP060920-B606UPWIND	765	06/09/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.80	661.555			
PE-TSP060920-B606DOWNWIND	766	06/09/20	7:08	G	A	1	8X10 EPM Whatman					X	1132.80	663.821			
APTIMPM060920-B606UPWIND	Q0398610	06/09/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.80	661.555			
APTIMPM060920-B606DOWNWIND	Q0398611	06/09/20	7:08	G	A	1	8X10 EPM Whatman				X		1132.80	663.821			
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: EDDIE KALOMBO Date: 6.16.20 Time: 1500
Received By: Date: 6/17/2020 Time: 11:00
Relinquished By: Date: Time:
Received By: Date: Time:

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

3/1163

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 013

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

Project Manager: *Nels Johnson*

Send Report To: *Eddie Kalombo*
Phone/Fax Number: *415.987.0760*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
eddie.kalombo@aptim.com

Sampler's Name(s): EKK

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 1155718
Delivery Date: 6/16/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

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 7300/6010	Flow Rate (L/min.)	Sample Volume (m^3)			
PE-TSP061020-B606UPWIND	767	06/10/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.8	660.422			
PE-TSP061020-B606DOWNWIND	768	06/10/20	7:09	G	A	1	8X10 EPM Whatman					X	1132.8	664.954			
APTIMPM061020-B606UPWIND	Q0398612	06/10/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.8	660.422			
APTIMPM061020-B606DOWNWIND	Q0398613	06/10/20	7:09	G	A	1	8X10 EPM Whatman				X		1132.8	664.954			
PE-TSP061120-B606UPWIND	769	06/11/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.8	662.688			
PE-TSP061120-B606DOWNWIND	770	06/11/20	7:07	G	A	1	8X10 EPM Whatman					X	1132.80	666.086			
APTIMPM061120-B606UPWIND	Q0398614	06/11/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.80	662.688			
APTIMPM061120-B606DOWNWIND	Q0398615	06/11/20	7:07	G	A	1	8X10 EPM Whatman				X		1132.80	666.086			
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: EDDIE KALOMBO Date: 6.16.20 Time: 1500
Received By: Date: 6/17/2020 Time: 1100
Relinquished By: Date: Time:
Received By: Date: Time:

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

7/1/2020

311163

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 013

Page 3 of 3

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

Project Manager: *Nels Johnson*

Send Report To: *Eddie Kalombo*
Phone/Fax Number: *415.987.0760*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
eddie.kalombo@aptim.com

Sampler's Name(s): EKK

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 1155718
Delivery Date: 6/16/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Sample ID Number	Lot 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 7300/6010	Flow Rate (L/min.)	Sample Volume (m^3)			
								Analyses Requested									
PE-TSP061220-B606UPWIND	771	06/12/20	7:02	G	A	1	8X10 EPM Whatman					X	1132.80	654.758			
PE-TSP061220-B606DOWNWIND	772	06/12/20	7:08	G	A	1	8X10 EPM Whatman					X	1132.80	662.688			
APTIMPM061220-B606UPWIND	Q0398616	06/12/20	7:02	G	A	1	8X10 EPM Whatman				X		1132.80	654.758			
APTIMPM061220-B606DOWNWIND	Q0398617	06/12/20	7:08	G	A	1	8X10 EPM Whatman				X		1132.80	662.688			
PE-TSP061320-B606UPWIND	773	06/13/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.80	645.696			
PE-TSP061320-B606DOWNWIND	774	06/13/20	7:08	G	A	1	8X10 EPM Whatman					X	1132.80	651.36			
APTIMPM061320-B606UPWIND	Q0398618	06/13/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.80	645.696			
APTIMPM061320-B606DOWNWIND	Q0398619	06/13/20	7:08	G	A	1	8X10 EPM Whatman				X		1132.80	651.36			
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: EDDIE KALOMBO Date: 6.16.20 Time: 1500
Received By: Date: 6/17/2020 Time: 11:00
Relinquished By: Date: Time:
Received By: Date: Time:

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

7/1/2020

2111103

AIR MONITORING LOG

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

STATION COC# 013

SAMPLE NO. **PE-TSP060820-B606UPWIND** 6/8/2020 *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				
763	40.0	40.0	40.0	6/08/20 06:58	6/08/20 16:45	587	665.0	TSP	1132.80

SAMPLE NO. **PE-TSP060820-B606DOWNWIND** 6/8/2020 *Building 606 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				
764	40.0	40.0	40.0	6/08/20 07:09	6/08/20 16:53	584	661.6	TSP	1132.80

SAMPLE NO. **APTIMPM060820-B606UPWIND** 6/8/2020 *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				
Q0398608	40.0	40.0	40.0	6/08/20 06:58	6/08/20 16:45	587	665.0	PM-10	1132.80

SAMPLE NO. **APTIMPM060820-B606DOWNWIND** 6/8/2020 *Building 606 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				
Q0398609	40.0	40.0	40.0	6/08/20 07:09	6/08/20 16:53	584	661.6	PM-10	1132.80

SAMPLE NO. **PE-TSP060920-B606UPWIND** 6/9/2020 *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				
765	40.0	40.0	40.0	6/09/20 07:00	6/09/20 16:44	584	661.6	TSP	1132.80

SAMPLE NO. **PE-TSP060920-B606DOWNWIND** 6/9/2020 *Building 606 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				
766	40.0	40.0	40.0	6/09/20 07:08	6/09/20 16:54	586	663.8	TSP	1132.80

SAMPLE NO. **APTIMPM060920-B606UPWIND** 6/9/2020 *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				
Q0398610	40.0	40.0	40.0	6/09/20 07:00	6/09/20 16:44	584	661.6	PM-10	1132.80

SAMPLE NO. **APTIMPM060920-B606DOWNWIND** 6/9/2020 *Building 606 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				

Q0398611	40.0	40.0	40.0	6/09/20 07:08	6/09/20 16:54	586	663.8	PM-10	1132.80

SAMPLE NO. **PE-TSP061020-B606UPWIND** 6/10/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
767	40.0	40.0	40.0	6/10/20 07:00	6/10/20 16:43	583	660.4	TSP	1132.80

SAMPLE NO. **PE-TSP061020-B606DOWNWIND** 6/10/2020 *Building 606 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				
768	40.0	40.0	40.0	6/10/20 07:09	6/10/20 16:56	587	665.0	TSP	1132.80

SAMPLE NO. **APTIMPM061020-B606UPWIND** 6/10/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398612	40.0	40.0	40.0	6/10/20 07:00	6/10/20 16:43	583	660.4	PM-10	1132.80

SAMPLE NO. **APTIMPM061020-B606DOWNWIND** 6/10/2020 *Building 606 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				
Q0398613	40.0	40.0	40.0	6/10/20 07:09	6/10/20 16:56	587	665.0	PM-10	1132.80

SAMPLE NO. **PE-TSP061120-B606UPWIND** 6/11/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
769	40.0	40.0	40.0	6/11/20 07:00	6/11/20 16:45	585	662.7	TSP	1132.80

SAMPLE NO. **PE-TSP061120-B606DOWNWIND** 6/11/2020 *Building 606 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				
770	40.0	40.0	40.0	6/11/20 07:07	6/11/20 16:55	588	666.1	TSP	1132.80

SAMPLE NO. **APTIMPM061120-B606UPWIND** 6/11/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398614	40.0	40.0	40.0	6/11/20 07:00	6/11/20 16:45	585	662.7	PM-10	1132.80

SAMPLE NO. **APTIMPM061120-B606DOWNWIND** 6/11/2020 *Building 606 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				
Q0398615	40.0	40.0	40.0	6/11/20 07:07	6/11/20 16:55	588	666.1	PM-10	1132.80

3/1/03

SAMPLE NO. **PE-TSP061220-B606UPWIND** 6/12/2020 *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				
771	40.0	40.0	40.0	6/12/20 07:02	6/12/20 16:40	578	654.8	TSP	1132.80

SAMPLE NO. **PE-TSP061220-B606DOWNWIND** 6/12/2020 *Building 606 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				
772	40.0	40.0	40.0	6/12/20 07:08	6/12/20 16:53	585	662.7	TSP	1132.80

SAMPLE NO. **APTIMPM061220-B606UPWIND** 6/12/2020 *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				
Q0398616	40.0	40.0	40.0	6/12/20 07:02	6/12/20 16:40	578	654.8	PM-10	1132.80

SAMPLE NO. **APTIMPM061220-B606DOWNWIND** 6/12/2020 *Building 606 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				
Q0398617	40.0	40.0	40.0	6/12/20 07:08	6/12/20 16:53	585	662.7	PM-10	1132.80

SAMPLE NO. **PE-TSP061320-B606UPWIND** 6/13/2020 *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				
773	40.0	40.0	40.0	6/13/20 07:00	6/13/20 16:30	570	645.7	TSP	1132.80

SAMPLE NO. **PE-TSP061320-B606DOWNWIND** 6/13/2020 *Building 606 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				
774	40.0	40.0	40.0	6/13/20 07:08	6/13/20 16:43	575	651.4	TSP	1132.80

SAMPLE NO. **APTIMPM061320-B606UPWIND** 6/13/2020 *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				
Q0398618	40.0	40.0	40.0	6/13/20 07:00	6/13/20 16:30	570	645.7	PM-10	1132.80

SAMPLE NO. **APTIMPM061320-B606DOWNWIND** 6/13/2020 *Building 606 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				
Q0398619	40.0	40.0	40.0	6/13/20 07:08	6/13/20 16:43	575	651.4	PM-10	1132.80

NORM HANELT
9253838622
APTIM - ALAMEDA
APTIM FEDERAL SERVICES
ALAMEDA CA 94501

10 LBS
DWT: 12,5,5

1 OF 1

SHIP TO:
TERRI CHANG
714-895-5494
EUROFINS CALSCIENCE
7440 LINCOLN WAY
GARDEN GROVE CA 92841-1427

CA 927 9-09

UPS NEXT DAY AIR SAVER 1P

TRACKING #: 1Z 89V 462 13 9201 6390

BILLING: P/P

Charge to Coding: 00701.500712.4701.03012310
Sender's Name: Eddie Kalombo

CS 22.0.11. WNTNV50 28.0A 04/2020

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-31163-1

Login Number: 31163
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: 570-31169-1
Client Project/Site: HPNS - Parcel E / 500712

For:
Aptim Federal Services LLC
4005 Port Chicago Hwy, Suite 200
Concord, California 94520

Attn: Eddie Kalombo

Terri Chang

Authorized for release by:
7/1/2020 7:08:12 PM

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

Table of Contents

Definitions/Glossary

Client: Aptim Federal Services LLC
Job ID: 570-31169-1
Project/Site: HPNS - Parcel E / 500712

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

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: 570-31169-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-31169-1

Comments
No additional comments.

Receipt
The samples were received on 6/17/2020 11:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 22.0º C.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-78461 and analytical batch 570-78908 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.

Detection Summary

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

Job ID: 570-31169-1

Client Sample ID: PE-TSP060120-B606UPWIND — Lab Sample ID: 570-31169-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	34.0		5.86		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP060120-B606DOWNWIND — Lab Sample ID: 570-31169-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	28.0		5.96		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM060120-B606UPWIND — Lab Sample ID: 570-31169-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	24.4		5.86		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM060120-B606DOWNWIND — Lab Sample ID: 570-31169-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	30.8		5.96		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP060220-B606UPWIND — Lab Sample ID: 570-31169-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	53.2		5.81		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP060220-B606DOWNWIND — Lab Sample ID: 570-31169-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	40.7		5.78		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM060220-B606UPWIND — Lab Sample ID: 570-31169-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	32.9		5.81		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM060220-B606DOWNWIND — Lab Sample ID: 570-31169-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	45.9		5.78		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP060320-B606UPWIND — Lab Sample ID: 570-31169-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	10.8		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	99.1		5.78		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP060320-B606DOWNWIND — Lab Sample ID: 570-31169-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	56.4		5.83		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM060320-B606UPWIND — Lab Sample ID: 570-31169-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	49.1		5.78		ug/m3	1		PM10	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 570-31169-1

Client Sample ID: APTIMPM060320-B606DOWNWIND — Lab Sample ID: 570-31169-12

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	75.2		5.83		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP060420-B606UPWIND — Lab Sample ID: 570-31169-13

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	11.8		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	91.7		5.14		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP060420-B606DOWNWIND — Lab Sample ID: 570-31169-14

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	13.4		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	92.4		5.82		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM060420-B606UPWIND — Lab Sample ID: 570-31169-15

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	49.9		5.14		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM060420-B606DOWNWIND — Lab Sample ID: 570-31169-16

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	86.7		5.82		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP060520-B606UPWIND — Lab Sample ID: 570-31169-17

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Lead	14.6		12.0		ug/Sample	1		6010B	Total/NA
Manganese	22.4		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	118		5.90		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP060520-B606DOWNWIND — Lab Sample ID: 570-31169-18

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	36.4		5.85		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM060520-B606UPWIND — Lab Sample ID: 570-31169-19

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	31.5		5.90		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM060520-B606DOWNWIND — Lab Sample ID: 570-31169-20

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	32.3		5.85		ug/m3	1		PM10	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP060120-B606UPWIND
Date Collected: 06/01/20 07:10
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31169-1
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	F1	18.0		ug/Sample		06/29/20 22:00	06/30/20 22:40	1
Lead	ND	F1	12.0		ug/Sample		06/29/20 22:00	06/30/20 22:40	1
Manganese	ND	F1	6.00		ug/Sample		06/29/20 22:00	06/30/20 22:40	1

Client Sample ID: PE-TSP060120-B606DOWNWIND
Date Collected: 06/01/20 07:26
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31169-2
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	06/30/20 23:02	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	06/30/20 23:02	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	06/30/20 23:02	1

Client Sample ID: PE-TSP060220-B606UPWIND
Date Collected: 06/02/20 07:00
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31169-5
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	06/30/20 23:05	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	06/30/20 23:05	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	06/30/20 23:05	1

Client Sample ID: PE-TSP060220-B606DOWNWIND
Date Collected: 06/02/20 07:11
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31169-6
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	06/30/20 23:07	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	06/30/20 23:07	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	06/30/20 23:07	1

Client Sample ID: PE-TSP060320-B606UPWIND
Date Collected: 06/03/20 07:00
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31169-9
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	06/30/20 23:10	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	06/30/20 23:10	1
Manganese	**10.8**		6.00		ug/Sample		06/29/20 22:00	06/30/20 23:10	1

Client Sample ID: PE-TSP060320-B606DOWNWIND
Date Collected: 06/03/20 07:11
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31169-10
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	06/30/20 23:13	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	06/30/20 23:13	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	06/30/20 23:13	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP060420-B606UPWIND
Date Collected: 06/04/20 07:02
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31169-13
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	06/30/20 23:16	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	06/30/20 23:16	1
Manganese	**11.8**		6.00		ug/Sample		06/29/20 22:00	06/30/20 23:16	1

Client Sample ID: PE-TSP060420-B606DOWNWIND
Date Collected: 06/04/20 07:10
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31169-14
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 17:56	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	07/01/20 17:56	1
Manganese	**13.4**		6.00		ug/Sample		06/29/20 22:00	07/01/20 17:56	1

Client Sample ID: PE-TSP060520-B606UPWIND
Date Collected: 06/05/20 07:01
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31169-17
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	06/30/20 23:21	1
Lead	**14.6**		12.0		ug/Sample		06/29/20 22:00	06/30/20 23:21	1
Manganese	**22.4**		6.00		ug/Sample		06/29/20 22:00	06/30/20 23:21	1

Client Sample ID: PE-TSP060520-B606DOWNWIND
Date Collected: 06/05/20 07:12
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31169-18
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	06/30/20 23:35	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	06/30/20 23:35	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	06/30/20 23:35	1

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

Job ID: 570-31169-1

General Chemistry

Client Sample ID: PE-TSP060120-B606UPWIND — **Lab Sample ID: 570-31169-1**
Date Collected: 06/01/20 07:10 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	34.0		5.86		ug/m3			06/24/20 20:30	1

Client Sample ID: PE-TSP060120-B606DOWNWIND — **Lab Sample ID: 570-31169-2**
Date Collected: 06/01/20 07:26 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	28.0		5.96		ug/m3			06/24/20 20:30	1

Client Sample ID: APTIMPM060120-B606UPWIND — **Lab Sample ID: 570-31169-3**
Date Collected: 06/01/20 07:10 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	24.4		5.86		ug/m3			06/30/20 10:50	1

Client Sample ID: APTIMPM060120-B606DOWNWIND — **Lab Sample ID: 570-31169-4**
Date Collected: 06/01/20 07:26 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	30.8		5.96		ug/m3			06/30/20 10:50	1

Client Sample ID: PE-TSP060220-B606UPWIND — **Lab Sample ID: 570-31169-5**
Date Collected: 06/02/20 07:00 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	53.2		5.81		ug/m3			06/24/20 20:30	1

Client Sample ID: PE-TSP060220-B606DOWNWIND — **Lab Sample ID: 570-31169-6**
Date Collected: 06/02/20 07:11 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	40.7		5.78		ug/m3			06/24/20 20:30	1

Client Sample ID: APTIMPM060220-B606UPWIND — **Lab Sample ID: 570-31169-7**
Date Collected: 06/02/20 07:00 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	32.9		5.81		ug/m3			06/30/20 10:50	1

Client Sample ID: APTIMPM060220-B606DOWNWIND — **Lab Sample ID: 570-31169-8**
Date Collected: 06/02/20 07:11 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	45.9		5.78		ug/m3			06/30/20 10:50	1

General Chemistry

Client Sample ID: PE-TSP060320-B606UPWIND — **Lab Sample ID: 570-31169-9**
Date Collected: 06/03/20 07:00 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	99.1		5.78		ug/m3			06/24/20 20:30	1

Client Sample ID: PE-TSP060320-B606DOWNWIND — **Lab Sample ID: 570-31169-10**
Date Collected: 06/03/20 07:11 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	56.4		5.83		ug/m3			06/24/20 20:30	1

Client Sample ID: APTIMPM060320-B606UPWIND — **Lab Sample ID: 570-31169-11**
Date Collected: 06/03/20 07:00 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	49.1		5.78		ug/m3			06/30/20 10:50	1

Client Sample ID: APTIMPM060320-B606DOWNWIND — **Lab Sample ID: 570-31169-12**
Date Collected: 06/03/20 07:11 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	75.2		5.83		ug/m3			06/30/20 10:50	1

Client Sample ID: PE-TSP060420-B606UPWIND — **Lab Sample ID: 570-31169-13**
Date Collected: 06/04/20 07:02 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	91.7		5.14		ug/m3			06/24/20 20:30	1

Client Sample ID: PE-TSP060420-B606DOWNWIND — **Lab Sample ID: 570-31169-14**
Date Collected: 06/04/20 07:10 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	92.4		5.82		ug/m3			06/24/20 20:30	1

Client Sample ID: APTIMPM060420-B606UPWIND — **Lab Sample ID: 570-31169-15**
Date Collected: 06/04/20 07:02 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	49.9		5.14		ug/m3			06/30/20 10:50	1

Client Sample ID: APTIMPM060420-B606DOWNWIND — **Lab Sample ID: 570-31169-16**
Date Collected: 06/04/20 07:10 — **Matrix: Air**
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	86.7		5.82		ug/m3			06/30/20 10:50	1

Client: Aptim Federal Services LLC
Job ID: 570-31169-1
Project/Site: HPNS - Parcel E / 500712

General Chemistry

Client Sample ID: PE-TSP060520-B606UPWIND
Lab Sample ID: 570-31169-17
Date Collected: 06/05/20 07:01
Matrix: Air
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	118		5.90		ug/m3			06/24/20 20:30	1

Client Sample ID: PE-TSP060520-B606DOWNWIND
Lab Sample ID: 570-31169-18
Date Collected: 06/05/20 07:12
Matrix: Air
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	36.4		5.85		ug/m3			06/24/20 20:30	1

Client Sample ID: APTIMPM060520-B606UPWIND
Lab Sample ID: 570-31169-19
Date Collected: 06/05/20 07:01
Matrix: Air
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	31.5		5.90		ug/m3			06/30/20 10:50	1

Client Sample ID: APTIMPM060520-B606DOWNWIND
Lab Sample ID: 570-31169-20
Date Collected: 06/05/20 07:12
Matrix: Air
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	32.3		5.85		ug/m3			06/30/20 10:50	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-78461/1-A
Matrix: Air
Analysis Batch: 78908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 78461

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	06/30/20 22:31	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	06/30/20 22:31	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	06/30/20 22:31	1

Lab Sample ID: LCS 570-78461/2-A
Matrix: Air
Analysis Batch: 78908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 78461

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			600	530.8		ug/Sample		88	80 - 120		
Lead			600	571.5		ug/Sample		95	80 - 120		
Manganese			600	559.0		ug/Sample		93	80 - 120		

Lab Sample ID: LCSD 570-78461/3-A
Matrix: Air
Analysis Batch: 78908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 78461

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic			600	533.2		ug/Sample		89	80 - 120	0	20
Lead			600	573.0		ug/Sample		95	80 - 120	0	20
Manganese			600	562.1		ug/Sample		94	80 - 120	1	20

Lab Sample ID: 570-31169-1 MS
Matrix: Air
Analysis Batch: 78908

Client Sample ID: PE-TSP060120-B606UPWIND
Prep Type: Total/NA
Prep Batch: 78461

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	ND	F1	600	449.8		ug/Sample		75	75 - 125		
Lead	ND	F1	600	479.8		ug/Sample		79	75 - 125		
Manganese	ND	F1	600	463.6		ug/Sample		77	75 - 125		

Lab Sample ID: 570-31169-1 MSD
Matrix: Air
Analysis Batch: 78908

Client Sample ID: PE-TSP060120-B606UPWIND
Prep Type: Total/NA
Prep Batch: 78461

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND	F1	600	421.5	F1	ug/Sample		70	75 - 125	6	20
Lead	ND	F1	600	445.1	F1	ug/Sample		73	75 - 125	7	20
Manganese	ND	F1	600	433.6	F1	ug/Sample		72	75 - 125	7	20

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

Lab Sample ID: MB 570-78703/1-A
Matrix: Air
Analysis Batch: 78706

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	ND		1.23		ug/m3			06/24/20 20:30	1

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

Job ID: 570-31169-1

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

Lab Sample ID: 570-31169-1 DU
Matrix: Air
Analysis Batch: 78706

Client Sample ID: PE-TSP060120-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	34.0			34.37		ug/m3				1	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-78557/1
Matrix: Air
Analysis Batch: 78557

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		1.23		ug/m3			06/30/20 10:50	1

Lab Sample ID: 570-31169-20 DU
Matrix: Air
Analysis Batch: 78557

Client Sample ID: APTIMPM060520-B606DOWNWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	32.3			32.54		ug/m3				0.6	25

Metals

Prep Batch: 78461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-31169-1	PE-TSP060120-B606UPWIND	Total/NA	Air	3050B	
570-31169-2	PE-TSP060120-B606DOWNWIND	Total/NA	Air	3050B	
570-31169-5	PE-TSP060220-B606UPWIND	Total/NA	Air	3050B	
570-31169-6	PE-TSP060220-B606DOWNWIND	Total/NA	Air	3050B	
570-31169-9	PE-TSP060320-B606UPWIND	Total/NA	Air	3050B	
570-31169-10	PE-TSP060320-B606DOWNWIND	Total/NA	Air	3050B	
570-31169-13	PE-TSP060420-B606UPWIND	Total/NA	Air	3050B	
570-31169-14	PE-TSP060420-B606DOWNWIND	Total/NA	Air	3050B	
570-31169-17	PE-TSP060520-B606UPWIND	Total/NA	Air	3050B	
570-31169-18	PE-TSP060520-B606DOWNWIND	Total/NA	Air	3050B	
MB 570-78461/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-78461/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-78461/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-31169-1 MS	PE-TSP060120-B606UPWIND	Total/NA	Air	3050B	
570-31169-1 MSD	PE-TSP060120-B606UPWIND	Total/NA	Air	3050B	

Analysis Batch: 78908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-31169-1	PE-TSP060120-B606UPWIND	Total/NA	Air	6010B	78461
570-31169-2	PE-TSP060120-B606DOWNWIND	Total/NA	Air	6010B	78461
570-31169-5	PE-TSP060220-B606UPWIND	Total/NA	Air	6010B	78461
570-31169-6	PE-TSP060220-B606DOWNWIND	Total/NA	Air	6010B	78461
570-31169-9	PE-TSP060320-B606UPWIND	Total/NA	Air	6010B	78461
570-31169-10	PE-TSP060320-B606DOWNWIND	Total/NA	Air	6010B	78461
570-31169-13	PE-TSP060420-B606UPWIND	Total/NA	Air	6010B	78461
570-31169-17	PE-TSP060520-B606UPWIND	Total/NA	Air	6010B	78461
570-31169-18	PE-TSP060520-B606DOWNWIND	Total/NA	Air	6010B	78461
MB 570-78461/1-A	Method Blank	Total/NA	Air	6010B	78461
LCS 570-78461/2-A	Lab Control Sample	Total/NA	Air	6010B	78461
LCSD 570-78461/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	78461
570-31169-1 MS	PE-TSP060120-B606UPWIND	Total/NA	Air	6010B	78461
570-31169-1 MSD	PE-TSP060120-B606UPWIND	Total/NA	Air	6010B	78461

Analysis Batch: 78953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-31169-14	PE-TSP060420-B606DOWNWIND	Total/NA	Air	6010B	78461

General Chemistry

Analysis Batch: 78557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-31169-3	APTIMPM060120-B606UPWIND	Total/NA	Air	PM10	
570-31169-4	APTIMPM060120-B606DOWNWIND	Total/NA	Air	PM10	
570-31169-7	APTIMPM060220-B606UPWIND	Total/NA	Air	PM10	
570-31169-8	APTIMPM060220-B606DOWNWIND	Total/NA	Air	PM10	
570-31169-11	APTIMPM060320-B606UPWIND	Total/NA	Air	PM10	
570-31169-12	APTIMPM060320-B606DOWNWIND	Total/NA	Air	PM10	
570-31169-15	APTIMPM060420-B606UPWIND	Total/NA	Air	PM10	
570-31169-16	APTIMPM060420-B606DOWNWIND	Total/NA	Air	PM10	
570-31169-19	APTIMPM060520-B606UPWIND	Total/NA	Air	PM10	
570-31169-20	APTIMPM060520-B606DOWNWIND	Total/NA	Air	PM10	

General Chemistry (Continued)

Analysis Batch: 78557 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-78557/1	Method Blank	Total/NA	Air	PM10	
570-31169-20 DU	APTIMPM060520-B606DOWNWIND	Total/NA	Air	PM10	

Pre Prep Batch: 78703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-31169-1	PE-TSP060120-B606UPWIND	Total/NA	Air	Filter to Air	
570-31169-2	PE-TSP060120-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-31169-5	PE-TSP060220-B606UPWIND	Total/NA	Air	Filter to Air	
570-31169-6	PE-TSP060220-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-31169-9	PE-TSP060320-B606UPWIND	Total/NA	Air	Filter to Air	
570-31169-10	PE-TSP060320-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-31169-13	PE-TSP060420-B606UPWIND	Total/NA	Air	Filter to Air	
570-31169-14	PE-TSP060420-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-31169-17	PE-TSP060520-B606UPWIND	Total/NA	Air	Filter to Air	
570-31169-18	PE-TSP060520-B606DOWNWIND	Total/NA	Air	Filter to Air	
MB 570-78703/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-31169-1 DU	PE-TSP060120-B606UPWIND	Total/NA	Air	Filter to Air	

Analysis Batch: 78706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-31169-1	PE-TSP060120-B606UPWIND	Total/NA	Air	40CFR50 App B	78703
570-31169-2	PE-TSP060120-B606DOWNWIND	Total/NA	Air	40CFR50 App B	78703
570-31169-5	PE-TSP060220-B606UPWIND	Total/NA	Air	40CFR50 App B	78703
570-31169-6	PE-TSP060220-B606DOWNWIND	Total/NA	Air	40CFR50 App B	78703
570-31169-9	PE-TSP060320-B606UPWIND	Total/NA	Air	40CFR50 App B	78703
570-31169-10	PE-TSP060320-B606DOWNWIND	Total/NA	Air	40CFR50 App B	78703
570-31169-13	PE-TSP060420-B606UPWIND	Total/NA	Air	40CFR50 App B	78703
570-31169-14	PE-TSP060420-B606DOWNWIND	Total/NA	Air	40CFR50 App B	78703
570-31169-17	PE-TSP060520-B606UPWIND	Total/NA	Air	40CFR50 App B	78703
570-31169-18	PE-TSP060520-B606DOWNWIND	Total/NA	Air	40CFR50 App B	78703
MB 570-78703/1-A	Method Blank	Total/NA	Air	40CFR50 App B	78703
570-31169-1 DU	PE-TSP060120-B606UPWIND	Total/NA	Air	40CFR50 App B	78703

Lab Chronicle

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

Job ID: 570-31169-1

Client Sample ID: PE-TSP060120-B606UPWIND

Lab Sample ID: 570-31169-1

Date Collected: 06/01/20 07:10
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78461	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	06/30/20 22:40	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78703	06/24/20 20:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78706	06/24/20 20:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP060120-B606DOWNWIND

Lab Sample ID: 570-31169-2

Date Collected: 06/01/20 07:26
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78461	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	06/30/20 23:02	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78703	06/24/20 20:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78706	06/24/20 20:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM060120-B606UPWIND

Lab Sample ID: 570-31169-3

Date Collected: 06/01/20 07:10
Matrix: Air
Date Received: 06/17/20 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	4.4522 g	4.4647 g	78557	06/30/20 10:50	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM060120-B606DOWNWIND

Lab Sample ID: 570-31169-4

Date Collected: 06/01/20 07:26
Matrix: Air
Date Received: 06/17/20 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	4.4559 g	4.4714 g	78557	06/30/20 10:50	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP060220-B606UPWIND

Lab Sample ID: 570-31169-5

Date Collected: 06/02/20 07:00
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78461	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	06/30/20 23:05	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78703	06/24/20 20:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78706	06/24/20 20:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

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

Job ID: 570-31169-1

Client Sample ID: PE-TSP060220-B606DOWNWIND

Lab Sample ID: 570-31169-6

Date Collected: 06/02/20 07:11
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78461	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	06/30/20 23:07	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78703	06/24/20 20:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78706	06/24/20 20:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM060220-B606UPWIND

Lab Sample ID: 570-31169-7

Date Collected: 06/02/20 07:00
Matrix: Air
Date Received: 06/17/20 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	4.4180 g	4.4350 g	78557	06/30/20 10:50	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM060220-B606DOWNWIND

Lab Sample ID: 570-31169-8

Date Collected: 06/02/20 07:11
Matrix: Air
Date Received: 06/17/20 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	4.4217 g	4.4455 g	78557	06/30/20 10:50	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP060320-B606UPWIND

Lab Sample ID: 570-31169-9

Date Collected: 06/03/20 07:00
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78461	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	06/30/20 23:10	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78703	06/24/20 20:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78706	06/24/20 20:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP060320-B606DOWNWIND

Lab Sample ID: 570-31169-10

Date Collected: 06/03/20 07:11
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78461	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	06/30/20 23:13	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78703	06/24/20 20:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78706	06/24/20 20:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM060320-B606UPWIND
Lab Sample ID: 570-31169-11

Date Collected: 06/03/20 07:00
Matrix: Air
Date Received: 06/17/20 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	4.5488 g	4.5743 g	78557	06/30/20 10:50	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM060320-B606DOWNWIND
Lab Sample ID: 570-31169-12

Date Collected: 06/03/20 07:11
Matrix: Air
Date Received: 06/17/20 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	4.5132 g	4.5519 g	78557	06/30/20 10:50	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP060420-B606UPWIND
Lab Sample ID: 570-31169-13

Date Collected: 06/04/20 07:02
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78461	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	06/30/20 23:16	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78703	06/24/20 20:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78706	06/24/20 20:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP060420-B606DOWNWIND
Lab Sample ID: 570-31169-14

Date Collected: 06/04/20 07:10
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78461	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78953	07/01/20 17:56	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78703	06/24/20 20:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78706	06/24/20 20:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM060420-B606UPWIND
Lab Sample ID: 570-31169-15

Date Collected: 06/04/20 07:02
Matrix: Air
Date Received: 06/17/20 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	4.5106 g	4.5397 g	78557	06/30/20 10:50	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Aptim Federal Services LLC
Job ID: 570-31169-1
Project/Site: HPNS - Parcel E / 500712

Client Sample ID: APTIMPM060420-B606DOWNWIND
Lab Sample ID: 570-31169-16
Date Collected: 06/04/20 07:10
Matrix: Air
Date Received: 06/17/20 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	4.5303 g	4.5750 g	78557	06/30/20 10:50	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP060520-B606UPWIND
Lab Sample ID: 570-31169-17
Date Collected: 06/05/20 07:01
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78461	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	06/30/20 23:21	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78703	06/24/20 20:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78706	06/24/20 20:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP060520-B606DOWNWIND
Lab Sample ID: 570-31169-18
Date Collected: 06/05/20 07:12
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78461	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	06/30/20 23:35	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78703	06/24/20 20:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78706	06/24/20 20:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM060520-B606UPWIND
Lab Sample ID: 570-31169-19
Date Collected: 06/05/20 07:01
Matrix: Air
Date Received: 06/17/20 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	4.5363 g	4.5523 g	78557	06/30/20 10:50	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM060520-B606DOWNWIND
Lab Sample ID: 570-31169-20
Date Collected: 06/05/20 07:12
Matrix: Air
Date Received: 06/17/20 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	4.5244 g	4.5410 g	78557	06/30/20 10:50	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

Accreditation/Certification Summary

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

Job ID: 570-31169-1

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	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

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

Job ID: 570-31169-1

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
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

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

Sample Summary

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

Job ID: 570-31169-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-31169-1	PE-TSP060120-B606UPWIND	Air	06/01/20 07:10	06/17/20 11:00	
570-31169-2	PE-TSP060120-B606DOWNWIND	Air	06/01/20 07:26	06/17/20 11:00	
570-31169-3	APTIMPM060120-B606UPWIND	Air	06/01/20 07:10	06/17/20 11:00	
570-31169-4	APTIMPM060120-B606DOWNWIND	Air	06/01/20 07:26	06/17/20 11:00	
570-31169-5	PE-TSP060220-B606UPWIND	Air	06/02/20 07:00	06/17/20 11:00	
570-31169-6	PE-TSP060220-B606DOWNWIND	Air	06/02/20 07:11	06/17/20 11:00	
570-31169-7	APTIMPM060220-B606UPWIND	Air	06/02/20 07:00	06/17/20 11:00	
570-31169-8	APTIMPM060220-B606DOWNWIND	Air	06/02/20 07:11	06/17/20 11:00	
570-31169-9	PE-TSP060320-B606UPWIND	Air	06/03/20 07:00	06/17/20 11:00	
570-31169-10	PE-TSP060320-B606DOWNWIND	Air	06/03/20 07:11	06/17/20 11:00	
570-31169-11	APTIMPM060320-B606UPWIND	Air	06/03/20 07:00	06/17/20 11:00	
570-31169-12	APTIMPM060320-B606DOWNWIND	Air	06/03/20 07:11	06/17/20 11:00	
570-31169-13	PE-TSP060420-B606UPWIND	Air	06/04/20 07:02	06/17/20 11:00	
570-31169-14	PE-TSP060420-B606DOWNWIND	Air	06/04/20 07:10	06/17/20 11:00	
570-31169-15	APTIMPM060420-B606UPWIND	Air	06/04/20 07:02	06/17/20 11:00	
570-31169-16	APTIMPM060420-B606DOWNWIND	Air	06/04/20 07:10	06/17/20 11:00	
570-31169-17	PE-TSP060520-B606UPWIND	Air	06/05/20 07:01	06/17/20 11:00	
570-31169-18	PE-TSP060520-B606DOWNWIND	Air	06/05/20 07:12	06/17/20 11:00	
570-31169-19	APTIMPM060520-B606UPWIND	Air	06/05/20 07:01	06/17/20 11:00	
570-31169-20	APTIMPM060520-B606DOWNWIND	Air	06/05/20 07:12	06/17/20 11:00	

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AII **31169**

Page 1 of 3

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

570-31169 Chain of Custody

Project Manager: ***Nels Johnson***

Send Report To: *Eddie Kalombo*
Phone/Fax Number: *415.987.0760*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
eddie.kalombo@aptim.com

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 1155718
Delivery Date: 6/16/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Sampler's Name(s): EKK

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 7300/6010	Flow Rate (L/min.)	Sample Volume (m^3)			
PE-TSP060120-B606UPWIND	753	06/01/20	7:10	G	A	1	8X10 EPM Whatman					X	1132.8	512.026			
PE-TSP060120-B606DOWNWIND	754	06/01/20	7:26	G	A	1	8X10 EPM Whatman					X	1132.8	502.963			
APTIMPM060120-B606UPWIND	Q0375131	06/01/20	7:10	G	A	1	8X10 EPM Whatman				X		1132.8	512.026			
APTIMPM060120-B606DOWNWIND	Q0375132	06/01/20	7:26	G	A	1	8X10 EPM Whatman				X		1132.80	502.963			
PE-TSP060220-B606UPWIND	755	06/02/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.80	516.557			
PE-TSP060220-B606DOWNWIND	756	06/02/20	7:11	G	A	1	8X10 EPM Whatman					X	1132.80	518.822			
APTIMPM060220-B606UPWIND	Q0375133	06/02/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.80	516.557			
APTIMPM060220-B606DOWNWIND	Q0375134	06/02/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.80	518.822			
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: EDDIE KALOMBO Date: 6.16.20 Time: 1500
Received By: Date: 6/17/2020 Time: 11:00
Relinquished By: Date: Time:
Received By: Date: Time:

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

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 012

Page 2 of 3

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

Project Manager: *Nels Johnson*

Send Report To: *Eddie Kalombo*
Phone/Fax Number: *415.987.0760*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
eddie.kalombo@aptim.com

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 1155718
Delivery Date: 6/16/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Sampler's Name(s): EKK

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 7300/6010	Flow Rate (L/min.)	Sample Volume (m^3)			
PE-TSP060320-B606UPWIND	757	06/03/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.8	518.822			
PE-TSP060320-B606DOWNWIND	758	06/03/20	7:11	G	A	1	8X10 EPM Whatman					X	1132.8	514.291			
APTIMPM060320-B606UPWIND	Q0398602	06/03/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.8	518.822			
APTIMPM060320-B606DOWNWIND	Q0398603	06/03/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.8	514.291			
PE-TSP060420-B606UPWIND	759	06/04/20	7:02	G	A	1	8X10 EPM Whatman					X	1132.8	583.392			
PE-TSP060420-B606DOWNWIND	760	06/04/20	7:10	G	A	1	8X10 EPM Whatman					X	1132.80	515.424			
APTIMPM060420-B606UPWIND	Q0398604	06/04/20	7:02	G	A	1	8X10 EPM Whatman				X		1132.80	583.392			
APTIMPM060420-B606DOWNWIND	Q0398605	06/04/20	7:10	G	A	1	8X10 EPM Whatman				X		1132.80	515.424			
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: EDDIE KALOMBO Date: 6.16.20 Time: 1500
Received By: Date: 6/17/2020 Time: 11:00
Relinquished By: Date: Time:
Received By: Date: Time:

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

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 012

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

Project Manager: *Nels Johnson*

Send Report To: *Eddie Kalombo*
Phone/Fax Number: *415.987.0760*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
eddie.kalombo@aptim.com

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 1155718
Delivery Date: 6/16/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Sampler's Name(s): EKK

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 7300/6010	Flow Rate (L/min.)	Sample Volume (m^3)			
PE-TSP060520-B606UPWIND	761	06/05/20	7:01	G	A	1	8X10 EPM Whatman					X	1132.80	508.627			
PE-TSP060520-B606DOWNWIND	762	06/05/20	7:12	G	A	1	8X10 EPM Whatman					X	1132.80	513.158			
APTIMPM060520-B606UPWIND	Q0398606	06/05/20	7:01	G	A	1	8X10 EPM Whatman				X		1132.80	508.627			
APTIMPM060520-B606DOWNWIND	Q0398607	06/05/20	7:12	G	A	1	8X10 EPM Whatman				X		1132.80	513.158			
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: EDDIE KALOMBO Date: 6.16.20 Time: 1500
Received By: Date: 6/17/2020 Time: 11:00
Relinquished By: Date: Time:
Received By: Date: Time:

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

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

STATION COC# 012

SAMPLE NO. **PE-TSP060120-B606UPWIND** 6/1/2020 *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				
753	40.0	40.0	40.0	6/01/20 07:10	6/01/20 14:42	452	512.0	TSP	1132.80

SAMPLE NO. **PE-TSP060120-B606DOWNWIND** 6/1/2020 *Building 606 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				
754	40.0	40.0	40.0	6/01/20 07:26	6/01/20 14:50	444	503.0	TSP	1132.80

SAMPLE NO. **APTIMPM060120-B606UPWIND** 6/1/2020 *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				
Q0375131	40.0	40.0	40.0	6/01/20 07:10	6/01/20 14:42	452	512.0	PM-10	1132.80

SAMPLE NO. **APTIMPM060120-B606DOWNWIND** 6/1/2020 *Building 606 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				
Q0375132	40.0	40.0	40.0	6/01/20 07:26	6/01/20 14:50	444	503.0	PM-10	1132.80

SAMPLE NO. **PE-TSP060220-B606UPWIND** 6/2/2020 *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				
755	40.0	40.0	40.0	6/02/20 07:00	6/02/20 14:36	456	516.6	TSP	1132.80

SAMPLE NO. **PE-TSP060220-B606DOWNWIND** 6/2/2020 *Building 606 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				
756	40.0	40.0	40.0	6/02/20 07:11	6/02/20 14:49	458	518.8	TSP	1132.80

SAMPLE NO. **APTIMPM060220-B606UPWIND** 6/2/2020 *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				
Q0375133	40.0	40.0	40.0	6/02/20 07:00	6/02/20 14:36	456	516.6	PM-10	1132.80

SAMPLE NO. **APTIMPM060220-B606DOWNWIND** 6/2/2020 *Building 606 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				

Q0375134	40.0	40.0	40.0	6/02/20 07:11	6/02/20 14:49	458	518.8	PM-10	1132.80

SAMPLE NO. **PE-TSP060320-B606UPWIND** 6/3/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
757	40.0	40.0	40.0	6/03/20 07:00	6/03/20 14:38	458	518.8	TSP	1132.80

SAMPLE NO. **PE-TSP060320-B606DOWNWIND** 6/3/2020 *Building 606 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				
758	40.0	40.0	40.0	6/03/20 07:11	6/03/20 14:45	454	514.3	TSP	1132.80

SAMPLE NO. **APTIMPM060320-B606UPWIND** 6/3/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398602	40.0	40.0	40.0	6/03/20 07:00	6/03/20 14:38	458	518.8	PM-10	1132.80

SAMPLE NO. **APTIMPM060320-B606DOWNWIND** 6/3/2020 *Building 606 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				
Q0398603	40.0	40.0	40.0	6/03/20 07:11	6/03/20 14:45	454	514.3	PM-10	1132.80

SAMPLE NO. **PE-TSP060420-B606UPWIND** 6/4/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
759	40.0	40.0	40.0	6/04/20 07:02	6/04/20 15:37	515	583.4	TSP	1132.80

SAMPLE NO. **PE-TSP060420-B606DOWNWIND** 6/4/2020 *Building 606 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				
760	40.0	40.0	40.0	6/04/20 07:10	6/04/20 14:45	455	515.4	TSP	1132.80

SAMPLE NO. **APTIMPM060420-B606UPWIND** 6/4/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398604	40.0	40.0	40.0	6/04/20 07:02	6/04/20 15:37	515	583.4	PM-10	1132.80

SAMPLE NO. **APTIMPM060420-B606DOWNWIND** 6/4/2020 *Building 606 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				
Q0398605	40.0	40.0	40.0	6/04/20 07:10	6/04/20 14:45	455	515.4	PM-10	1132.80

2/11/69

SAMPLE NO. **PE-TSP060520-B606UPWIND** 6/5/2020 *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				
761	40.0	40.0	40.0	6/05/20 07:01	6/05/20 14:30	449	508.6	TSP	1132.80

SAMPLE NO. **PE-TSP060520-B606DOWNWIND** 6/5/2020 *Building 606 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				
762	40.0	40.0	40.0	6/05/20 07:12	6/05/20 14:45	453	513.2	TSP	1132.80

SAMPLE NO. **APTIMPM060520-B606UPWIND** 6/5/2020 *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				
Q0398606	40.0	40.0	40.0	6/05/20 07:01	6/05/20 14:30	449	508.6	PM-10	1132.80

SAMPLE NO. **APTIMPM060520-B606DOWNWIND** 6/5/2020 *Building 606 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				
Q0398607	40.0	40.0	40.0	6/05/20 07:12	6/05/20 14:45	453	513.2	PM-10	1132.80

570-31169 Waybill

NORM HANELT
9253838622
APTIM - ALAMEDA
APTIM FEDERAL SERVICES
ALAMEDA CA 94501

10 LBS

DWT: 12,5,5

1 OF 1

SHIP TO:
TERRI CHANG
714-895-5494
EUROFINS CALSCIENCE
7440 LINCOLN WAY
GARDEN GROVE CA 92841-1427

CA 927 9-09

UPS NEXT DAY AIR SAVER **1P**

TRACKING #: 1Z 89V 462 13 9201 6390

BILLING: P/P

Charge to Coding: 00701.500712.4701.03012310
Sender's Name: Eddie Kalombo

CS 22.0.11. WNTNV50 28.0A 04/2020

2330 6390 JUN 17 04:18:36 2020 ZEBRAZT410
1462139201 DOORBB XIP 20.3.0

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-31169-1

Login Number: 31169

List Source: Eurofins Calscience

List Number: 1

Creator: Ramos, Maribel

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: 570-31171-1
Client Project/Site: HPNS - Parcel E / 500712

For:
Aptim Federal Services LLC
4005 Port Chicago Hwy, Suite 200
Concord, California 94520

Attn: Eddie Kalombo

Terri Chang

Authorized for release by:
7/1/2020 6:15:53 PM

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

Table of Contents

Definitions/Glossary

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

Job ID: 570-31171-1

Qualifiers

Metals

Qualifier	Qualifier Description
L	A negative instrument reading had an absolute value greater than the reporting limit

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: 570-31171-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-31171-1

Comments
No additional comments.

Receipt
The samples were received on 6/17/2020 11:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 22.0º C.

Metals
Method 6010B: The absolute response for Manganese was greater than the method reporting limit (RL) in the following sample: (MB 570-78460/1-A).
The instrument raw data has been manually reviewed and the result can be reported as ND.

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.

Detection Summary

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

Job ID: 570-31171-1

Client Sample ID: PE-TSP052620-B606UPWIND — Lab Sample ID: 570-31171-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Lead	12.5		12.0		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	48.5		4.55		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP052620-B606DOWNWIND — Lab Sample ID: 570-31171-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	33.2		4.61		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM052620-B606UPWIND — Lab Sample ID: 570-31171-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	20.9		4.55		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM052620-B606DOWNWIND — Lab Sample ID: 570-31171-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	40.1		4.61		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP052720-B606UPWIND — Lab Sample ID: 570-31171-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	47.8		4.61		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP052720-B606DOWNWIND — Lab Sample ID: 570-31171-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	42.7		4.62		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM052720-B606UPWIND — Lab Sample ID: 570-31171-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	28.8		4.61		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM052720-B606DOWNWIND — Lab Sample ID: 570-31171-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	40.5		4.62		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP052820-B606UPWIND — Lab Sample ID: 570-31171-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	22.9		4.59		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP052820-B606DOWNWIND — Lab Sample ID: 570-31171-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	26.5		4.63		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM052820-B606UPWIND — Lab Sample ID: 570-31171-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	14.1		4.59		ug/m3	1		PM10	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 570-31171-1

Client Sample ID: APTIMPM052820-B606DOWNWIND — Lab Sample ID: 570-31171-12

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	22.5		4.63		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP052920-B606UPWIND — Lab Sample ID: 570-31171-13

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	6.80		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	34.1		4.65		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP052920-B606DOWNWIND — Lab Sample ID: 570-31171-14

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	15.8		4.65		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM052920-B606UPWIND — Lab Sample ID: 570-31171-15

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	15.5		4.65		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM052920-B606DOWNWIND — Lab Sample ID: 570-31171-16

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	15.3		4.65		ug/m3	1		PM10	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP052620-B606UPWIND
Date Collected: 05/26/20 07:03
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31171-1
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 01:59	1
Lead	**12.5**		12.0		ug/Sample		06/29/20 22:00	07/01/20 01:59	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	07/01/20 01:59	1

Client Sample ID: PE-TSP052620-B606DOWNWIND
Date Collected: 05/26/20 07:19
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31171-2
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 02:01	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	07/01/20 02:01	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	07/01/20 02:01	1

Client Sample ID: PE-TSP052720-B606UPWIND
Date Collected: 05/27/20 07:00
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31171-5
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 02:04	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	07/01/20 02:04	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	07/01/20 02:04	1

Client Sample ID: PE-TSP052720-B606DOWNWIND
Date Collected: 05/27/20 07:12
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31171-6
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 02:06	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	07/01/20 02:06	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	07/01/20 02:06	1

Client Sample ID: PE-TSP052820-B606UPWIND
Date Collected: 05/28/20 07:01
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31171-9
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 02:08	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	07/01/20 02:08	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	07/01/20 02:08	1

Client Sample ID: PE-TSP052820-B606DOWNWIND
Date Collected: 05/28/20 07:14
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31171-10
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 02:11	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	07/01/20 02:11	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	07/01/20 02:11	1

Client Sample Results

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

Job ID: 570-31171-1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP052920-B606UPWIND
Date Collected: 05/29/20 07:06
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31171-13
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 02:13	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	07/01/20 02:13	1
Manganese	**6.80**		6.00		ug/Sample		06/29/20 22:00	07/01/20 02:13	1

Client Sample ID: PE-TSP052920-B606DOWNWIND
Date Collected: 05/29/20 07:15
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Lab Sample ID: 570-31171-14
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 02:25	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	07/01/20 02:25	1
Manganese	ND		6.00		ug/Sample		06/29/20 22:00	07/01/20 02:25	1

General Chemistry

Client Sample ID: PE-TSP052620-B606UPWIND
Lab Sample ID: 570-31171-1
Date Collected: 05/26/20 07:03
Matrix: Air
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	48.5		4.55		ug/m3			06/24/20 19:00	1

Client Sample ID: PE-TSP052620-B606DOWNWIND
Lab Sample ID: 570-31171-2
Date Collected: 05/26/20 07:19
Matrix: Air
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	33.2		4.61		ug/m3			06/24/20 19:00	1

Client Sample ID: APTIMPM052620-B606UPWIND
Lab Sample ID: 570-31171-3
Date Collected: 05/26/20 07:03
Matrix: Air
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	20.9		4.55		ug/m3			06/25/20 12:53	1

Client Sample ID: APTIMPM052620-B606DOWNWIND
Lab Sample ID: 570-31171-4
Date Collected: 05/26/20 07:19
Matrix: Air
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	40.1		4.61		ug/m3			06/25/20 12:53	1

Client Sample ID: PE-TSP052720-B606UPWIND
Lab Sample ID: 570-31171-5
Date Collected: 05/27/20 07:00
Matrix: Air
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	47.8		4.61		ug/m3			06/24/20 19:00	1

Client Sample ID: PE-TSP052720-B606DOWNWIND
Lab Sample ID: 570-31171-6
Date Collected: 05/27/20 07:12
Matrix: Air
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	42.7		4.62		ug/m3			06/24/20 19:00	1

Client Sample ID: APTIMPM052720-B606UPWIND
Lab Sample ID: 570-31171-7
Date Collected: 05/27/20 07:00
Matrix: Air
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	28.8		4.61		ug/m3			06/25/20 12:53	1

Client Sample ID: APTIMPM052720-B606DOWNWIND
Lab Sample ID: 570-31171-8
Date Collected: 05/27/20 07:12
Matrix: Air
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	40.5		4.62		ug/m3			06/25/20 12:53	1

General Chemistry

Client Sample ID: PE-TSP052820-B606UPWIND
Lab Sample ID: 570-31171-9
Date Collected: 05/28/20 07:01
Matrix: Air
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	22.9		4.59		ug/m3			06/24/20 19:00	1

Client Sample ID: PE-TSP052820-B606DOWNWIND
Lab Sample ID: 570-31171-10
Date Collected: 05/28/20 07:14
Matrix: Air
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	26.5		4.63		ug/m3			06/24/20 19:00	1

Client Sample ID: APTIMPM052820-B606UPWIND
Lab Sample ID: 570-31171-11
Date Collected: 05/28/20 07:01
Matrix: Air
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	14.1		4.59		ug/m3			06/25/20 12:53	1

Client Sample ID: APTIMPM052820-B606DOWNWIND
Lab Sample ID: 570-31171-12
Date Collected: 05/28/20 07:14
Matrix: Air
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	22.5		4.63		ug/m3			06/25/20 12:53	1

Client Sample ID: PE-TSP052920-B606UPWIND
Lab Sample ID: 570-31171-13
Date Collected: 05/29/20 07:06
Matrix: Air
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	34.1		4.65		ug/m3			06/24/20 19:00	1

Client Sample ID: PE-TSP052920-B606DOWNWIND
Lab Sample ID: 570-31171-14
Date Collected: 05/29/20 07:15
Matrix: Air
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	15.8		4.65		ug/m3			06/24/20 19:00	1

Client Sample ID: APTIMPM052920-B606UPWIND
Lab Sample ID: 570-31171-15
Date Collected: 05/29/20 07:06
Matrix: Air
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	15.5		4.65		ug/m3			06/25/20 12:53	1

Client Sample ID: APTIMPM052920-B606DOWNWIND
Lab Sample ID: 570-31171-16
Date Collected: 05/29/20 07:15
Matrix: Air
Date Received: 06/17/20 11:00
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	15.3		4.65		ug/m3			06/25/20 12:53	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-78460/1-A
Matrix: Air
Analysis Batch: 78908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 78460

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		06/29/20 22:00	07/01/20 01:00	1
Lead	ND		12.0		ug/Sample		06/29/20 22:00	07/01/20 01:00	1
Manganese	ND	L	6.00		ug/Sample		06/29/20 22:00	07/01/20 01:00	1

Lab Sample ID: LCS 570-78460/2-A
Matrix: Air
Analysis Batch: 78908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 78460

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			600	532.8		ug/Sample		89	80 - 120		
Lead			600	561.8		ug/Sample		94	80 - 120		
Manganese			600	562.2		ug/Sample		94	80 - 120		

Lab Sample ID: LCSD 570-78460/3-A
Matrix: Air
Analysis Batch: 78908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 78460

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic			600	571.0		ug/Sample		95	80 - 120	7	20
Lead			600	600.6		ug/Sample		100	80 - 120	7	20
Manganese			600	576.7		ug/Sample		96	80 - 120	3	20

Lab Sample ID: 570-31163-A-1-B MS
Matrix: Air
Analysis Batch: 78908

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 78460

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	ND		600	464.7		ug/Sample		76	75 - 125		
Lead	ND		600	475.5		ug/Sample		78	75 - 125		
Manganese	ND		600	449.9		ug/Sample		75	75 - 125		

Lab Sample ID: 570-31163-A-1-C MSD
Matrix: Air
Analysis Batch: 78908

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 78460

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		600	502.7		ug/Sample		83	75 - 125	8	20
Lead	ND		600	533.7		ug/Sample		88	75 - 125	12	20
Manganese	ND		600	503.7		ug/Sample		84	75 - 125	11	20

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

Lab Sample ID: MB 570-78686/1-A
Matrix: Air
Analysis Batch: 78690

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	ND		1.23		ug/m3			06/24/20 19:00	1

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

Lab Sample ID: 570-31163-A-22-C DU
Matrix: Air
Analysis Batch: 78690

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	15.4			15.05		ug/m3				2	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-77761/1
Matrix: Air
Analysis Batch: 77761

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		1.23		ug/m3			06/25/20 12:53	1

Lab Sample ID: 570-31163-A-24 DU
Matrix: Air
Analysis Batch: 77761

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	17.3			17.50		ug/m3				0.9	25

Metals

Prep Batch: 78460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-31171-1	PE-TSP052620-B606UPWIND	Total/NA	Air	3050B	
570-31171-2	PE-TSP052620-B606DOWNWIND	Total/NA	Air	3050B	
570-31171-5	PE-TSP052720-B606UPWIND	Total/NA	Air	3050B	
570-31171-6	PE-TSP052720-B606DOWNWIND	Total/NA	Air	3050B	
570-31171-9	PE-TSP052820-B606UPWIND	Total/NA	Air	3050B	
570-31171-10	PE-TSP052820-B606DOWNWIND	Total/NA	Air	3050B	
570-31171-13	PE-TSP052920-B606UPWIND	Total/NA	Air	3050B	
570-31171-14	PE-TSP052920-B606DOWNWIND	Total/NA	Air	3050B	
MB 570-78460/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-78460/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-78460/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-31163-A-1-B MS	Matrix Spike	Total/NA	Air	3050B	
570-31163-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Air	3050B	

Analysis Batch: 78908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-31171-1	PE-TSP052620-B606UPWIND	Total/NA	Air	6010B	78460
570-31171-2	PE-TSP052620-B606DOWNWIND	Total/NA	Air	6010B	78460
570-31171-5	PE-TSP052720-B606UPWIND	Total/NA	Air	6010B	78460
570-31171-6	PE-TSP052720-B606DOWNWIND	Total/NA	Air	6010B	78460
570-31171-9	PE-TSP052820-B606UPWIND	Total/NA	Air	6010B	78460
570-31171-10	PE-TSP052820-B606DOWNWIND	Total/NA	Air	6010B	78460
570-31171-13	PE-TSP052920-B606UPWIND	Total/NA	Air	6010B	78460
570-31171-14	PE-TSP052920-B606DOWNWIND	Total/NA	Air	6010B	78460
MB 570-78460/1-A	Method Blank	Total/NA	Air	6010B	78460
LCS 570-78460/2-A	Lab Control Sample	Total/NA	Air	6010B	78460
LCSD 570-78460/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	78460
570-31163-A-1-B MS	Matrix Spike	Total/NA	Air	6010B	78460
570-31163-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Air	6010B	78460

General Chemistry

Analysis Batch: 77761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-31171-3	APTIMPM052620-B606UPWIND	Total/NA	Air	PM10	
570-31171-4	APTIMPM052620-B606DOWNWIND	Total/NA	Air	PM10	
570-31171-7	APTIMPM052720-B606UPWIND	Total/NA	Air	PM10	
570-31171-8	APTIMPM052720-B606DOWNWIND	Total/NA	Air	PM10	
570-31171-11	APTIMPM052820-B606UPWIND	Total/NA	Air	PM10	
570-31171-12	APTIMPM052820-B606DOWNWIND	Total/NA	Air	PM10	
570-31171-15	APTIMPM052920-B606UPWIND	Total/NA	Air	PM10	
570-31171-16	APTIMPM052920-B606DOWNWIND	Total/NA	Air	PM10	
MB 570-77761/1	Method Blank	Total/NA	Air	PM10	
570-31163-A-24 DU	Duplicate	Total/NA	Air	PM10	

Pre Prep Batch: 78686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-31171-1	PE-TSP052620-B606UPWIND	Total/NA	Air	Filter to Air	
570-31171-2	PE-TSP052620-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-31171-5	PE-TSP052720-B606UPWIND	Total/NA	Air	Filter to Air	
570-31171-6	PE-TSP052720-B606DOWNWIND	Total/NA	Air	Filter to Air	

General Chemistry (Continued)

Pre Prep Batch: 78686 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-31171-9	PE-TSP052820-B606UPWIND	Total/NA	Air	Filter to Air	
570-31171-10	PE-TSP052820-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-31171-13	PE-TSP052920-B606UPWIND	Total/NA	Air	Filter to Air	
570-31171-14	PE-TSP052920-B606DOWNWIND	Total/NA	Air	Filter to Air	
MB 570-78686/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-31163-A-22-C DU	Duplicate	Total/NA	Air	Filter to Air	

Analysis Batch: 78690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-31171-1	PE-TSP052620-B606UPWIND	Total/NA	Air	40CFR50 App B	78686
570-31171-2	PE-TSP052620-B606DOWNWIND	Total/NA	Air	40CFR50 App B	78686
570-31171-5	PE-TSP052720-B606UPWIND	Total/NA	Air	40CFR50 App B	78686
570-31171-6	PE-TSP052720-B606DOWNWIND	Total/NA	Air	40CFR50 App B	78686
570-31171-9	PE-TSP052820-B606UPWIND	Total/NA	Air	40CFR50 App B	78686
570-31171-10	PE-TSP052820-B606DOWNWIND	Total/NA	Air	40CFR50 App B	78686
570-31171-13	PE-TSP052920-B606UPWIND	Total/NA	Air	40CFR50 App B	78686
570-31171-14	PE-TSP052920-B606DOWNWIND	Total/NA	Air	40CFR50 App B	78686
MB 570-78686/1-A	Method Blank	Total/NA	Air	40CFR50 App B	78686
570-31163-A-22-C DU	Duplicate	Total/NA	Air	40CFR50 App B	78686

Lab Chronicle

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

Job ID: 570-31171-1

Client Sample ID: PE-TSP052620-B606UPWIND
Lab Sample ID: 570-31171-1
Date Collected: 05/26/20 07:03
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78460	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	07/01/20 01:59	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78686	06/24/20 18:30	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78690	06/24/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP052620-B606DOWNWIND
Lab Sample ID: 570-31171-2
Date Collected: 05/26/20 07:19
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78460	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	07/01/20 02:01	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78686	06/24/20 18:30	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78690	06/24/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM052620-B606UPWIND
Lab Sample ID: 570-31171-3
Date Collected: 05/26/20 07:03
Matrix: Air
Date Received: 06/17/20 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	4.4485 g	4.4623 g	77761	06/25/20 12:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM052620-B606DOWNWIND
Lab Sample ID: 570-31171-4
Date Collected: 05/26/20 07:19
Matrix: Air
Date Received: 06/17/20 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	4.3930 g	4.4191 g	77761	06/25/20 12:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP052720-B606UPWIND
Lab Sample ID: 570-31171-5
Date Collected: 05/27/20 07:00
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78460	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	07/01/20 02:04	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78686	06/24/20 18:30	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78690	06/24/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-31171-1

Client Sample ID: PE-TSP052720-B606DOWNWIND
Lab Sample ID: 570-31171-6
Date Collected: 05/27/20 07:12
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78460	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	07/01/20 02:06	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78686	06/24/20 18:30	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78690	06/24/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM052720-B606UPWIND
Lab Sample ID: 570-31171-7
Date Collected: 05/27/20 07:00
Matrix: Air
Date Received: 06/17/20 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	4.4196 g	4.4383 g	77761	06/25/20 12:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM052720-B606DOWNWIND
Lab Sample ID: 570-31171-8
Date Collected: 05/27/20 07:12
Matrix: Air
Date Received: 06/17/20 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	4.4216 g	4.4479 g	77761	06/25/20 12:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP052820-B606UPWIND
Lab Sample ID: 570-31171-9
Date Collected: 05/28/20 07:01
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78460	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	07/01/20 02:08	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78686	06/24/20 18:30	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78690	06/24/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP052820-B606DOWNWIND
Lab Sample ID: 570-31171-10
Date Collected: 05/28/20 07:14
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78460	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	07/01/20 02:11	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78686	06/24/20 18:30	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78690	06/24/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-31171-1

Client Sample ID: APTIMPM052820-B606UPWIND
Lab Sample ID: 570-31171-11
Date Collected: 05/28/20 07:01
Matrix: Air
Date Received: 06/17/20 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	4.4502 g	4.4594 g	77761	06/25/20 12:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM052820-B606DOWNWIND
Lab Sample ID: 570-31171-12
Date Collected: 05/28/20 07:14
Matrix: Air
Date Received: 06/17/20 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	4.4324 g	4.4470 g	77761	06/25/20 12:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP052920-B606UPWIND
Lab Sample ID: 570-31171-13
Date Collected: 05/29/20 07:06
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78460	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	07/01/20 02:13	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78686	06/24/20 18:30	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78690	06/24/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP052920-B606DOWNWIND
Lab Sample ID: 570-31171-14
Date Collected: 05/29/20 07:15
Matrix: Air
Date Received: 06/17/20 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			.08333 Filter	100 mL	78460	06/29/20 22:00	X7RL	ECL 1
Total/NA	Analysis	6010B		1			78908	07/01/20 02:25	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					78686	06/24/20 18:30	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			78690	06/24/20 19:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM052920-B606UPWIND
Lab Sample ID: 570-31171-15
Date Collected: 05/29/20 07:06
Matrix: Air
Date Received: 06/17/20 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	4.4436 g	4.4536 g	77761	06/25/20 12:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-31171-1

Client Sample ID: APTIMPM052920-B606DOWNWIND
Date Collected: 05/29/20 07:15
Date Received: 06/17/20 11:00

Lab Sample ID: 570-31171-16
Matrix: Air

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	4.4364 g	4.4463 g	77761	06/25/20 12:53	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

Accreditation/Certification Summary

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

Job ID: 570-31171-1

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	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

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

Job ID: 570-31171-1

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
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

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

Sample Summary

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

Job ID: 570-31171-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-31171-1	PE-TSP052620-B606UPWIND	Air	05/26/20 07:03	06/17/20 11:00	
570-31171-2	PE-TSP052620-B606DOWNWIND	Air	05/26/20 07:19	06/17/20 11:00	
570-31171-3	APTIMPM052620-B606UPWIND	Air	05/26/20 07:03	06/17/20 11:00	
570-31171-4	APTIMPM052620-B606DOWNWIND	Air	05/26/20 07:19	06/17/20 11:00	
570-31171-5	PE-TSP052720-B606UPWIND	Air	05/27/20 07:00	06/17/20 11:00	
570-31171-6	PE-TSP052720-B606DOWNWIND	Air	05/27/20 07:12	06/17/20 11:00	
570-31171-7	APTIMPM052720-B606UPWIND	Air	05/27/20 07:00	06/17/20 11:00	
570-31171-8	APTIMPM052720-B606DOWNWIND	Air	05/27/20 07:12	06/17/20 11:00	
570-31171-9	PE-TSP052820-B606UPWIND	Air	05/28/20 07:01	06/17/20 11:00	
570-31171-10	PE-TSP052820-B606DOWNWIND	Air	05/28/20 07:14	06/17/20 11:00	
570-31171-11	APTIMPM052820-B606UPWIND	Air	05/28/20 07:01	06/17/20 11:00	
570-31171-12	APTIMPM052820-B606DOWNWIND	Air	05/28/20 07:14	06/17/20 11:00	
570-31171-13	PE-TSP052920-B606UPWIND	Air	05/29/20 07:06	06/17/20 11:00	
570-31171-14	PE-TSP052920-B606DOWNWIND	Air	05/29/20 07:15	06/17/20 11:00	
570-31171-15	APTIMPM052920-B606UPWIND	Air	05/29/20 07:06	06/17/20 11:00	
570-31171-16	APTIMPM052920-B606DOWNWIND	Air	05/29/20 07:15	06/17/20 11:00	

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 011

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

570-31171 Chain of Custody

Project Manager: *Nels Johnson*

Send Report To: *Eddie Kalombo*
Phone/Fax Number: *415.987.0760*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
eddie.kalombo@aptim.com

Sampler's Name(s): EKK

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 1155718
Delivery Date: 6/16/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

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 7300/6010	Flow Rate (L/min.)	Sample Volume (m^3)			
PE-TSP052620-B606UPWIND	745	05/26/20	7:03	G	A	1	8X10 EPM Whatman					X	1132.8	659.29			
PE-TSP052620-B606DOWNWIND	746	05/26/20	7:19	G	A	1	8X10 EPM Whatman					X	1132.8	650.227			
APTIMPM052620-B606UPWIND	Q0375123	05/26/20	7:03	G	A	1	8X10 EPM Whatman				X		1132.8	659.29			
APTIMPM052620-B606DOWNWIND	Q0375124	05/26/20	7:19	G	A	1	8X10 EPM Whatman				X		1132.80	650.227			
PE-TSP052720-B606UPWIND	747	05/27/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.80	650.227			
PE-TSP052720-B606DOWNWIND	748	05/27/20	7:12	G	A	1	8X10 EPM Whatman					X	1132.80	649.094			
APTIMPM052720-B606UPWIND	Q0375125	05/27/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.80	650.227			
APTIMPM052720-B606DOWNWIND	Q0375126	05/27/20	7:12	G	A	1	8X10 EPM Whatman				X		1132.80	649.094			
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: EDDIE KALOMBO Date: 6.16.20 Time: 1500
Received By: Date: 6/17/2020 Time: 11:00
Relinquished By: Date: Time:
Received By: Date: Time:

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

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 011

Page 2 of 2

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

Project Manager: *Nels Johnson*

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 1155718
Delivery Date: 6/16/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Send Report To: *Eddie Kalombo*
Phone/Fax Number: *415.987.0760*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
eddie.kalombo@aptim.com
Sampler's Name(s): EKK

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 7300/6010	Flow Rate (L/min.)	Sample Volume (m^3)			
PE-TSP052820-B606UPWIND	749	05/28/20	7:01	G	A	1	8X10 EPM Whatman					X	1132.8	653.626			
PE-TSP052820-B606DOWNWIND	750	05/28/20	7:14	G	A	1	8X10 EPM Whatman					X	1132.8	647.962			
APTIMPM052820-B606UPWIND	Q0375127	05/28/20	7:01	G	A	1	8X10 EPM Whatman				X		1132.8	653.626			
APTIMPM052820-B606DOWNWIND	Q0375128	05/28/20	7:14	G	A	1	8X10 EPM Whatman				X		1132.8	647.962			
PE-TSP052920-B606UPWIND	751	05/29/20	7:06	G	A	1	8X10 EPM Whatman					X	1132.8	644.563			
PE-TSP052920-B606DOWNWIND	752	05/29/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.80	645.696			
APTIMPM052920-B606UPWIND	Q0375129	05/29/20	7:06	G	A	1	8X10 EPM Whatman				X		1132.80	644.563			
APTIMPM052920-B606DOWNWIND	Q0375130	05/29/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.80	645.696			
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: EDDIE KALOMBO, Date: 6.16.20 Time: 1500
Received By: Date: 6/17/2020 Time: 11:00
Relinquished By: Date: Time:
Received By: Date: Time:

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

AIR MONITORING LOG

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

STATION COC# 011

SAMPLE NO. PE-TSP052620-B606UPWIND 5/26/2020 *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				
745	40.0	40.0	40.0	5/26/20 07:03	5/26/20 16:45	582	659.3	TSP	1132.80

SAMPLE NO. PE-TSP052620-B606DOWNWIND 5/26/2020 *Building 606 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				
746	40.0	40.0	40.0	5/26/20 07:19	5/26/20 16:53	574	650.2	TSP	1132.80

SAMPLE NO. APTIMPM052620-B606UPWIND 5/26/2020 *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				
Q0375123	40.0	40.0	40.0	5/26/20 07:03	5/26/20 16:45	582	659.3	PM-10	1132.80

SAMPLE NO. APTIMPM052620-B606DOWNWIND 5/26/2020 *Building 606 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				
Q0375124	40.0	40.0	40.0	5/26/20 07:19	5/26/20 16:53	574	650.2	PM-10	1132.80

SAMPLE NO. PE-TSP052720-B606UPWIND 5/27/2020 *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				
747	40.0	40.0	40.0	5/27/20 07:00	5/27/20 16:34	574	650.2	TSP	1132.80

SAMPLE NO. PE-TSP052720-B606DOWNWIND 5/27/2020 *Building 606 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				
748	40.0	40.0	40.0	5/27/20 07:12	5/27/20 16:45	573	649.1	TSP	1132.80

SAMPLE NO. APTIMPM052720-B606UPWIND 5/27/2020 *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				
Q0375125	40.0	40.0	40.0	5/27/20 07:00	5/27/20 16:34	574	650.2	PM-10	1132.80

SAMPLE NO. APTIMPM052720-B606DOWNWIND 5/27/2020 *Building 606 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				
Q0375126	40.0	40.0	40.0	5/27/20 07:12	5/27/20 16:45	573	649.1	PM-10	1132.80

SAMPLE NO. **PE-TSP052820-B606UPWIND** 5/28/2020 *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				
749	40.0	40.0	40.0	5/28/20 07:01	5/28/20 16:38	577	653.6	TSP	1132.80

SAMPLE NO. **PE-TSP052820-B606DOWNWIND** 5/28/2020 *Building 606 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				
750	40.0	40.0	40.0	5/28/20 07:14	5/28/20 16:46	572	648.0	TSP	1132.80

SAMPLE NO. **APTIMPM052820-B606UPWIND** 5/28/2020 *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				
Q0375127	40.0	40.0	40.0	5/28/20 07:01	5/28/20 16:38	577	653.6	PM-10	1132.80

SAMPLE NO. **APTIMPM052820-B606DOWNWIND** 5/28/2020 *Building 606 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				
Q0375128	40.0	40.0	40.0	5/28/20 07:14	5/28/20 16:46	572	648.0	PM-10	1132.80

SAMPLE NO. **PE-TSP052920-B606UPWIND** 5/29/2020 *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				
751	40.0	40.0	40.0	5/29/20 07:06	5/29/20 16:35	569	644.6	TSP	1132.80

SAMPLE NO. **PE-TSP052920-B606DOWNWIND** 5/29/2020 *Building 606 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				
752	40.0	40.0	40.0	5/29/20 07:15	5/29/20 16:45	570	645.7	TSP	1132.80

SAMPLE NO. **APTIMPM052920-B606UPWIND** 5/29/2020 *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				
Q0375129	40.0	40.0	40.0	5/29/20 07:06	5/29/20 16:35	569	644.6	PM-10	1132.80

SAMPLE NO. **APTIMPM052920-B606DOWNWIND** 5/29/2020 *Building 606 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				
Q0375130	40.0	40.0	40.0	5/29/20 07:15	5/29/20 16:45	570	645.7	PM-10	1132.80

570-31171 Waybill

NORM HANELT
9253838622
APTIM - ALAMEDA
APTIM FEDERAL SERVICES
ALAMEDA CA 94501

10 LBS

1 OF 1

DWT: 12,5,5

SHIP TO:
TERRI CHANG
714-895-5494
EUROFINS CALSCIENCE
7440 LINCOLN WAY
GARDEN GROVE CA 92841-1427

CA 927 9-09

UPS NEXT DAY AIR SAVER 1P

TRACKING #: 1Z 89V 462 13 9201 6390

BILLING: P/P

Charge to Coding: 00701.500712.4701.03012310
Sender's Name: Eddie Kalombo

CS 22.0.11. WNTNV50 28.0A 04/2020

1462139201 6390 2330
JUN 17 04:18:36 2020

UPS Next Day Air

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-31171-1

Login Number: 31171
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
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-32472-1
Client Project/Site: HPNS - Parcel E / 500712

For:
Aptim Federal Services LLC
4005 Port Chicago Hwy, Suite 200
Concord, California 94520

Attn: Rose Condit

Terri Chang

Authorized for release by:
7/16/2020 6:20:21 PM

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

Table of Contents

Case Narrative

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

Job ID: 570-32472-1

Job ID: 570-32472-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-32472-1

Comments
No additional comments.

Receipt
The samples were received on 7/3/2020 10:20 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 22.0º C.

Receipt Exceptions
The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): PE-ASB062520-B606UPWIND (570-32472-21) and PE-ASB062520-B606DOWNWIND (570-32472-22). The Filter No. container labels list CU125076, while the COC lists Q0398639. The Filter No. container labels list CU125085, while the COC lists Q0398640.

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

Sample Summary

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

Job ID: 570-32472-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-32472-1	PE-ASB061520-B606UPWIND	Air	06/15/20 07:00	07/03/20 10:20	
570-32472-2	PE-ASB061520-B606DOWNWIND	Air	06/15/20 07:08	07/03/20 10:20	
570-32472-3	PE-ASB061620-B606UPWIND	Air	06/16/20 06:58	07/03/20 10:20	
570-32472-4	PE-ASB061620-B606DOWNWIND	Air	06/16/20 07:07	07/03/20 10:20	
570-32472-5	PE-ASB061720-B606UPWIND	Air	06/17/20 07:04	07/03/20 10:20	
570-32472-6	PE-ASB061720-B606DOWNWIND	Air	06/17/20 07:11	07/03/20 10:20	
570-32472-7	PE-ASB061820-B606UPWIND	Air	06/18/20 07:05	07/03/20 10:20	
570-32472-8	PE-ASB061820-B606DOWNWIND	Air	06/18/20 07:15	07/03/20 10:20	
570-32472-9	PE-ASB061920-B606UPWIND	Air	06/19/20 06:55	07/03/20 10:20	
570-32472-10	PE-ASB061920-B606DOWNWIND	Air	06/19/20 07:06	07/03/20 10:20	
570-32472-11	PE-ASB062020-B606UPWIND	Air	06/20/20 06:58	07/03/20 10:20	
570-32472-12	PE-ASB062020-B606DOWNWIND	Air	06/20/20 07:10	07/03/20 10:20	
570-32472-13	PE-ASB-BLANK-B606UPWIND	Air	06/20/20 07:22	07/03/20 10:20	
570-32472-14	PE-ASB-BLANK-B606DOWNWIND	Air	06/20/20 07:22	07/03/20 10:20	
570-32472-15	PE-ASB062220-B606UPWIND	Air	06/22/20 07:06	07/03/20 10:20	
570-32472-16	PE-ASB062220-B606DOWNWIND	Air	06/22/20 07:15	07/03/20 10:20	
570-32472-17	PE-ASB062320-B606UPWIND	Air	06/23/20 07:00	07/03/20 10:20	
570-32472-18	PE-ASB062320-B606DOWNWIND	Air	06/23/20 07:11	07/03/20 10:20	
570-32472-19	PE-ASB062420-B606UPWIND	Air	06/24/20 07:03	07/03/20 10:20	
570-32472-20	PE-ASB062420-B606DOWNWIND	Air	06/24/20 07:11	07/03/20 10:20	
570-32472-21	PE-ASB062520-B606UPWIND	Air	06/25/20 07:00	07/03/20 10:20	
570-32472-22	PE-ASB062520-B606DOWNWIND	Air	06/25/20 07:08	07/03/20 10:20	
570-32472-23	PE-ASB062620-B606UPWIND	Air	06/26/20 07:00	07/03/20 10:20	
570-32472-24	PE-ASB062620-B606DOWNWIND	Air	06/26/20 07:07	07/03/20 10:20	
570-32472-25	PE-ASB062720-B606UPWIND	Air	06/27/20 07:00	07/03/20 10:20	
570-32472-26	PE-ASB062720-B606DOWNWIND	Air	06/27/20 07:24	07/03/20 10:20	
570-32472-27	PE-ASB062920-B606UPWIND	Air	06/29/20 07:04	07/03/20 10:20	
570-32472-28	PE-ASB062920-B606DOWNWIND	Air	06/29/20 07:11	07/03/20 10:20	
570-32472-29	PE-ASB063020-B606UPWIND	Air	06/30/20 07:30	07/03/20 10:20	
570-32472-30	PE-ASB063020-B606DOWNWIND	Air	06/30/20 07:45	07/03/20 10:20	
570-32472-31	PE-ASB070120-B606UPWIND	Air	07/01/20 07:25	07/03/20 10:20	
570-32472-32	PE-ASB070120-B606DOWNWIND	Air	07/01/20 07:35	07/03/20 10:20	
570-32472-33	PE-ASB070220-B606UPWIND	Air	07/02/20 07:25	07/03/20 10:20	
570-32472-34	PE-ASB070220-B606DOWNWIND	Air	07/02/20 07:35	07/03/20 10:20	
570-32472-35	PE-ASB-BLANK-B606UPWIND	Air	06/30/20 07:22	07/03/20 10:20	
570-32472-36	PE-ASB-BLANK-B606DOWNWIND	Air	06/30/20 07:22	07/03/20 10:20	
570-32472-37	PE-ASB-BLANK-B606UPWIND	Air	07/02/20 07:22	07/03/20 10:20	
570-32472-38	PE-ASB-BLANK-B606DOWNWIND	Air	07/02/20 07:22	07/03/20 10:20	

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: 332012070
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: 07/06/2020 10:55 AM
Analysis Date: 07/10/2020 - 07/13/2020
Collected Date:

Project: 570-32472 / HPNS - Parcel E / 500712

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

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm²	Fibers/cc	Notes
PE-ASB061520-B606UPWIND (570-32472-1) *332012070-0001*			1402	20.1	100	0.0019	25.6	0.0070	
PE-ASB061520-B606DOWNWIND (570-32472-2) *332012070-0002*			1160	9.1	100	0.0023	11.6	0.0039	
PE-ASB061620-B606UPWIND (570-32472-3) *332012070-0003*			1174	14.1	100	0.0023	18.0	0.0059	
PE-ASB061620-B606DOWNWIND (570-32472-4) *332012070-0004*			1174	22.1	100	0.0023	28.2	0.0092	
PE-ASB061720-B606UPWIND (570-32472-5) *332012070-0005*			1154	6.1	100	0.0023	7.77	0.0026	
PE-ASB061720-B606DOWNWIND (570-32472-6) *332012070-0006*			1158	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB601820-B606UPWIND (570-32472-7) *332012070-0007*			1158	7.1	100	0.0023	9.04	0.0030	
PE-ASB601820-B606DOWNWIND (570-32472-8) *332012070-0008*			1158	6.1	100	0.0023	7.77	0.0026	
PE-ASB061920-B606UPWIND (570-32472-9) *332012070-0009*			1170	11.1	100	0.0023	14.1	0.0047	
PE-ASB061920-B606DOWNWIND (570-32472-10) *332012070-0010*			1170	7.1	100	0.0023	9.04	0.0030	Sample pulled for 10% duplicate count
PE-ASB062020-B606UPWIND (570-32472-11) *332012070-0011*			1174	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB062020-B606DOWNWIND (570-32472-12) *332012070-0012*			1170	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB-BLANK-B606UPWIND (570-32472-13) *332012070-0013*				<5.5	100		<7.01		Field Blank

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. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. Results have been blank corrected as applicable. The report reflects the samples as received. 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 = 0.38, 21-50 fibers = 0.23, 51-100 fibers = 0.21. 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: 07/13/2020 01:38 PM Replaces amended report from: 07/13/2020 01:36 PM Reason Code: Client-Samples Added

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: 332012070
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: 07/06/2020 10:55 AM
Analysis Date: 07/10/2020 - 07/13/2020
Collected Date:

Project: 570-32472 / HPNS - Parcel E / 500712

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

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm²	Fibers/cc	Notes
PE-ASB-BLANK-B606DOWNWIND (570-32472-14) *332012070-0014*				<5.5	100		<7.01		Field Blank
PE-ASB062220-B606UPWIND (570-32472-15) *332012070-0015*			1150	27.1	100	0.0023	34.5	0.0116	Sample pulled for 10% duplicate count
PE-ASB062220-B606DOWNWIND (570-32472-16) *332012070-0016*			1158	<5.5	100	0.0023	<7.01	<0.0023	Sample pulled for 10% duplicate count
PE-ASB062320-B606UPWIND (570-32472-17) *332012070-0017*			1162	6.1	100	0.0023	7.77	0.0026	
PE-ASB062320-B606DOWNWIND (570-32472-18) *332012070-0018*			1162	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB062420-B606UPWIND (570-32472-19) *332012070-0019*			1164	6.1	100	0.0023	7.77	0.0026	
PE-ASB062420-B606DOWNWIND (570-32472-20) *332012070-0020*			1160	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB062520-B606UPWIND (570-32472-21) *332012070-0021*			1166	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB062520-B606DOWNWIND (570-32472-22) *332012070-0022*			1168	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB062620-B606UPWIND (570-32472-23) *332012070-0023*			1152	11.1	100	0.0023	14.1	0.0047	
PE-ASB062620-B606DOWNWIND (570-32472-24) *332012070-0024*			1166	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB062720-B606UPWIND (570-32472-25) *332012070-0025*			1168	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB062720-B606DOWNWIND (570-32472-26) *332012070-0026*			1142	12.1	100	0.0024	15.4	0.0052	Sample pulled for 10% duplicate count

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. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. Results have been blank corrected as applicable. The report reflects the samples as received. 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 = 0.38, 21-50 fibers = 0.23, 51-100 fibers = 0.21. 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: 07/13/2020 01:38 PM Replaces amended report from: 07/13/2020 01:36 PM Reason Code: Client-Samples Added

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: 332012070
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: 07/06/2020 10:55 AM
Analysis Date: 07/10/2020 - 07/13/2020
Collected Date:

Project: 570-32472 / HPNS - Parcel E / 500712

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

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm²	Fibers/cc	Notes
PE-ASB062920-B606UPWIND (570-32472-27) *332012070-0027*			1142	6.1	100	0.0024	7.77	0.0026	
PE-ASB062920-B606DOWNWIND (570-32472-28) *332012070-0028*			1154	10.1	100	0.0023	12.9	0.0043	
PE-ASB063020-B606UPWIND (570-32472-29) *332012070-0029*			1090	14.6	100	0.0025	18.6	0.0066	
PE-ASB063020-B606DOWNWIND (570-32472-30) *332012070-0030*			1086	10.1	100	0.0025	12.9	0.0046	
PE-ASB070120-B606UPWIND (570-32472-31) *332012070-0031*			1110	11.1	100	0.0024	14.1	0.0049	
PE-ASB070120-B606DOWNWIND (570-32472-32) *332012070-0032*			1110	7.1	100	0.0024	9.04	0.0031	
PE-ASB070220-B606UPWIND (570-32472-33) *332012070-0033*			1100	<5.5	100	0.0025	<7.01	<0.0025	
PE-ASB070220-B606DOWNWIND (570-32472-34) *332012070-0034*			1106	<5.5	100	0.0024	<7.01	<0.0024	
PE-ASB-BLANK-B606UPWIND (570-32472-35) *332012070-0035*				<5.5	100		<7.01		Field Blank
PE-ASB-BLANK-B606DOWNWIND (570-32472-36) *332012070-0036*				<5.5	100		<7.01		Field Blank Sample pulled for 10% duplicate count
PE-ASB-BLANK-B606UPWIND (570-32472-37) *332012070-0037*				<5.5	100		<7.01		Field Blank
PE-ASB-BLANK-B606DOWNWIND (570-32472-38) *332012070-0038*				<5.5	100		<7.01		Field Blank

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. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. Results have been blank corrected as applicable. The report reflects the samples as received. 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 = 0.38, 21-50 fibers = 0.23, 51-100 fibers = 0.21. 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: 07/13/2020 01:38 PM Replaces amended report from: 07/13/2020 01:36 PM Reason Code: Client-Samples Added

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: 332012070
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: 07/06/2020 10:55 AM
Analysis Date: 07/10/2020 - 07/13/2020
Collected Date:

Project: 570-32472 / HPNS - Parcel E / 500712

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

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm²	Fibers/cc	Notes
PE-ASB061920-B606 DOWNWIND (570-32472-10)DUP *332012070-0039*			1170	<5.5	100	0.0023	<7.01	<0.0023	10% duplicate count
PE-ASB062220-B606 UPWIND (570-32472-15)DUP *332012070-0040*			1150	21.1	100	0.0023	26.9	0.0090	10% duplicate count
PE-ASB062220-B606 DOWNWIND (570-32472-16)DUP *332012070-0041*			1158	<5.5	100	0.0023	<7.01	<0.0023	10% duplicate count
PE-ASB062720-B606 DOWNWIND (570-32472-26)DUP *332012070-0042*			1142	16.6	100	0.0024	21.1	0.0071	10% duplicate count
PE-ASB-BLANK-B606 DOWNWIND (570-32472-36)DUP *332012070-0043*				<5.5	100		<7.01		Field Blank 10% duplicate count

The results reported have been blank corrected as applicable.

Analyst(s):
Brian Magumcia PCM 20 Jeffrey Deboo PCM 23

Michael DeCavallas, Laboratory Manager
or other Approved Signatory

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. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. Results have been blank corrected as applicable. The report reflects the samples as received. 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 = 0.38, 21-50 fibers = 0.23, 51-100 fibers = 0.21. 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: 07/13/2020 01:38 PM Replaces amended report from: 07/13/2020 01:36 PM Reason Code: Client-Samples Added

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

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

570-32472 Chain of Custody

Project Manager: *Nels Johnson*

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
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
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Sampler's Name(s): ER

	Sample ID Number	Filter No.	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	Analyses Requested: PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOSH 7300/6010B)	Flow Rate (L/min.)	Sample Volume (m^3)			
1	PE-ASB061520-B606UPWIND	CP822288	06/15/20	7:00	G	A	1	PCM			X			2.00	1.402			
2	PE-ASB061520-B606DOWNWIND	CP822335	06/15/20	7:08	G	A	1	PCM			X			2.00	1.16			
3	PE-ASB061620-B606UPWIND	CP822360	06/16/20	6:58	G	A	1	PCM			X			2.00	1.174			
4	PE-ASB061620-B606DOWNWIND	CP822372	06/16/20	7:07	G	A	1	PCM			X			2.00	1.174			
5	PE-ASB061720-B606UPWIND	CP822129	06/17/20	7:04	G	A	1	PCM			X			2.00	1.154			
6	PE-ASB061720-B606DOWNWIND	CP822140	06/17/20	7:11	G	A	1	PCM			X			2.00	1.158			
7	PE-ASB061820-B606UPWIND	CU125095	06/18/20	7:05	G	A	1	PCM			X			2.00	1.158			
8	PE-ASB061820-B606DOWNWIND	CU125118	06/18/20	7:15	G	A	1	PCM			X			2.00	1.158			
	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: EDDIE KALOMBO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/3/20 Time: 1620

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

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

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

Project Manager: *Nels Johnson*

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
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
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Sampler's Name(s): ER

	Sample ID Number	Filter No.	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	Analyses Requested: PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOSH 7300/6010B)	Flow Rate (L/min.)	Sample Volume (m^3)			
9	PE-ASB061920-B606UPWIND	CU125115	06/19/20	6:55	G	A	1	PCM			X			2.00	1.17			
10	PE-ASB061920-B606DOWNWIND	CU125137	06/19/20	7:06	G	A	1	PCM			X			2.00	1.17			
11	PE-ASB062020-B606UPWIND	CU125096	06/20/20	6:58	G	A	1	PCM			X			2.00	1.174			
12	PE-ASB062020-B606DOWNWIND	CU125150	06/20/20	7:10	G	A	1	PCM			X			2.00	1.17			
13	PE-ASB-BLANK-B606UPWIND	CU085969	06/20/20	7:22	G	A	1	PCM			X			2.00				
14	PE-ASB-BLANK-B606DOWNWIND	CU125112	06/20/20	7:22	G	A	1	PCM			X			2.00				
15	PE-ASB062220-B606UPWIND	CU125099	06/22/20	7:06	G	A	1	PCM			X			2.00	1.15			
16	PE-ASB062220-B606DOWNWIND	CU125101	06/22/20	7:15	G	A	1	PCM			X			2.00	1.158			
	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: EDDIE KALOMBO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/3/20 Time: 1520

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

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

Page 3 of 5

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

Project Manager: *Nels Johnson*

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
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
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: 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)			
17	PE-ASB062320-B606UPWIND	CU085979	06/23/20	7:00	G	A	1	PCM			X			2.00	1.162			
18	PE-ASB062320-B606DOWNWIND	CU125144	06/23/20	7:11	G	A	1	PCM			X			2.00	1.162			
19	PE-ASB062420-B606UPWIND	CU085967	06/24/20	7:03	G	A	1	PCM			X			2.00	1.164			
20	PE-ASB062420-B606DOWNWIND	CU125169	06/24/20	7:11	G	A	1	PCM			X			2.00	1.16			
21	PE-ASB062520-B606UPWIND	Q0398639	06/25/20	7:00	G	A	1	PCM			X			2.00	1.166			
22	PE-ASB062520-B606DOWNWIND	Q0398640	06/25/20	7:08	G	A	1	PCM			X			2.00	1.168			
23	PE-ASB062620-B606UPWIND	CU125173	06/26/20	7:00	G	A	1	PCM			X			2.00	1.152			
24	PE-ASB062620-B606DOWNWIND	CU125197	06/26/20	7:07	G	A	1	PCM			X			2.00	1.166			
	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: EDDIE KAHOMBO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Marbel Eii Date: 7/3/20 Time: 1520

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

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

Page 4 of 5

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

Project Manager: *Nels Johnson*

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Phone/Fax Number: *415.987.0760*
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
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: 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)			
25	PE-ASB062720-B606UPWIND	CU0125102	06/27/20	7:00	G	A	1	PCM			X			2.00	1.168			
26	PE-ASB062720-B606DOWNWIND	CU125108	06/27/20	7:24	G	A	1	PCM			X			2.00	1.142			
27	PE-ASB062920-B606UPWIND	CU086126	06/29/20	7:04	G	A	1	PCM			X			2.00	1.142			
28	PE-ASB062920-B606DOWNWIND	CU125232	06/29/20	7:11	G	A	1	PCM			X			2.00	1.154			
29	PE-ASB063020-B606UPWIND	CU125177	06/30/20	7:30	G	A	1	PCM			X			2.00	1.09			
30	PE-ASB063020-B606DOWNWIND	CU125203	06/30/20	7:45	G	A	1	PCM			X			2.00	1.086			
31	PE-ASB070120-B606UPWIND	CU125222	07/01/20	7:25	G	A	1	PCM			X			2.00	1.11			
32	PE-ASB070120-B606DOWNWIND	CU125091	07/01/20	7:35	G	A	1	PCM			X			2.00	1.11			
	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: EDDIE KAMOMBO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/3/20 Time: 1520

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

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

Page 5 of 5

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

Project Manager: *Nels Johnson*

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
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
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: 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	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 7300/6010	Analyses Requested: Flow Rate (L/min.)	Sample Volume (m^3)			
33	PE-ASB070220-B606UPWIND	CU125178	07/02/20	7:25	G	A	1	PCM			X			2.00	1.1			
34	PE-ASB070220-B606DOWNWIND	CU085978	07/02/20	7:35	G	A	1	PCM			X			2.00	1.106			
35	PE-ASB-BLANK-B606UPWIND	CU085976	06/30/20	7:22	G	A	1	PCM			X			2.00				
36	PE-ASB-BLANK-B606DOWNWIND	CU125139	06/30/20	7:22	G	A	1	PCM			X			2.00				
37	PE-ASB-BLANK-B606UPWIND	CU125092	07/02/20	7:22	G	A	1	PCM			X			2.00				
38	PE-ASB-BLANK-B606DOWNWIND	CU085982	07/02/20	7:22	G	A	1	PCM			X			2.00				
	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: EDDIE KALOTRO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/3/20 Time: 1020

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

AIR MONITORING LOG

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

STATION COC# 014

SAMPLE NO. PE-ASB061520-B606UPWIND 6/15/2020 *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				
CP822288	2.0	2.0	2.0	6/15/20 07:00	6/15/20 18:41	701	1.4	Asbestos	2.00

SAMPLE NO. PE-ASB061520-B606DOWNWIND 6/15/2020 *Building 606 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				
CP822335	2.0	2.0	2.0	6/15/20 07:08	6/15/20 16:48	580	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB061620-B606UPWIND 6/16/2020 *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				
CP822360	2.0	2.0	2.0	6/16/20 06:58	6/16/20 16:45	587	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB061620-B606DOWNWIND 6/16/2020 *Building 606 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				
CP822372	2.0	2.0	2.0	6/16/20 07:07	6/16/20 16:54	587	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB061720-B606UPWIND 6/17/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CP822129	2.0	2.0	2.0	6/17/20 07:04	6/17/20 16:41	577	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB061720-B606DOWNWIND 6/17/2020 *Building 606 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				
CP822140	2.0	2.0	2.0	6/17/20 07:11	6/17/20 16:50	579	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB061820-B606UPWIND 6/18/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU125095	2.0	2.0	2.0	6/18/20 07:05	6/18/20 16:44	579	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB061820-B606DOWNWIND 6/18/2020 *Building 606 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				

CU125118	2.0	2.0	2.0	6/18/20 07:15	6/18/20 16:54	579	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB061920-B606UPWIND** 6/19/2020 *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				
CU125115	2.0	2.0	2.0	6/19/20 06:55	6/19/20 16:40	585	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB061920-B606DOWNWIND** 6/19/2020 *Building 606 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				
CU125137	2.0	2.0	2.0	6/19/20 07:06	6/19/20 16:51	585	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB062020-B606UPWIND** 6/20/2020 *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				
CU125096	2.0	2.0	2.0	6/20/20 06:58	6/20/20 16:45	587	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB062020-B606DOWNWIND** 6/20/2020 *Building 606 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				
CU125150	2.0	2.0	2.0	6/20/20 07:10	6/20/20 16:55	585	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB-BLANK-B606UPWIND** 6/20/2020 *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				
CU085969	2.0	2.0	2.0	7/01/20 07:22	7/01/20 07:22	0	0.0	Asbestos	2.00

SAMPLE NO. **PE-ASB-BLANK-B606DOWNWIND** 6/20/2020 *Building 606 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				
CU125112	2.0	2.0	2.0	7/01/20 07:22	7/01/20 07:22	0	0.0	Asbestos	2.00

SAMPLE NO. **PE-ASB062220-B606UPWIND** 6/22/2020 *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				
CU125099	2.0	2.0	2.0	6/22/20 07:06	6/22/20 16:41	575	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB062220-B606DOWNWIND** 6/22/2020 *Building 606 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				
CU125101	2.0	2.0	2.0	6/22/20 07:15	6/22/20 16:54	579	1.2	Asbestos	2.00

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SAMPLE NO. PE-ASB062320-B606UPWIND 6/23/2020 *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				
CU085979	2.0	2.0	2.0	6/23/20 07:00	6/23/20 16:41	581	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB062320-B606DOWNWIND 6/23/2020 *Building 606 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				
CU125144	2.0	2.0	2.0	6/23/20 07:11	6/23/20 16:52	581	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB062420-B606UPWIND 6/24/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU085967	2.0	2.0	2.0	6/24/20 07:03	6/24/20 16:45	582	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB062420-B606DOWNWIND 6/24/2020 *Building 606 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				
CU125169	2.0	2.0	2.0	6/24/20 07:11	6/24/20 16:51	580	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB062520-B606UPWIND 6/25/2020 *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				
CU125076	2.0	2.0	2.0	6/25/20 07:00	6/25/20 16:43	583	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB062520-B606DOWNWIND 6/25/2020 *Building 606 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				
CU125085	2.0	2.0	2.0	6/25/20 07:08	6/25/20 16:52	584	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB062620-B606UPWIND 6/26/2020 *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				
CU125173	2.0	2.0	2.0	6/26/20 07:00	6/26/20 16:36	576	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB062620-B606DOWNWIND 6/26/2020 *Building 606 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				
CU125197	2.0	2.0	2.0	6/26/20 07:07	6/26/20 16:50	583	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB062720-B606UPWIND 6/27/2020 *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				
CU0125102	2.0	2.0	2.0	6/27/20 07:00	6/27/20 16:44	584	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB062720-B606DOWNWIND** 6/27/2020 *Building 606 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				
CU125108	2.0	2.0	2.0	6/27/20 07:24	6/27/20 16:55	571	1.1	Asbestos	2.00

SAMPLE NO. **PE-ASB062920-B606UPWIND** 6/29/2020 *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				
CU086126	2.0	2.0	2.0	6/29/20 07:04	6/29/20 16:35	571	1.1	Asbestos	2.00

SAMPLE NO. **PE-ASB062920-B606DOWNWIND** 6/29/2020 *Building 606 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				
CU125232	2.0	2.0	2.0	6/29/20 07:11	6/29/20 16:48	577	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB063020-B606UPWIND** 6/30/2020 *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				
CU125177	2.0	2.0	2.0	6/30/20 07:30	6/30/20 16:35	545	1.1	Asbestos	2.00

SAMPLE NO. **PE-ASB063020-B606DOWNWIND** 6/30/2020 *Building 606 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				
CU125203	2.0	2.0	2.0	6/30/20 07:45	6/30/20 16:48	543	1.1	Asbestos	2.00

SAMPLE NO. **PE-ASB070120-B606UPWIND** 7/1/2020 *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				
CU125222	2.0	2.0	2.0	7/01/20 07:25	7/01/20 16:40	555	1.1	Asbestos	2.00

SAMPLE NO. **PE-ASB070120-B606DOWNWIND** 7/1/2020 *Building 606 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				
CU125091	2.0	2.0	2.0	7/01/20 07:35	7/01/20 16:50	555	1.1	Asbestos	2.00

SAMPLE NO. **PE-ASB070220-B606UPWIND** 7/2/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME	TOTAL VOL. (std	Analysis	Flow Rate

32472

LOT No.	FLOW RATE (CFM) START	FLOW RATE (CFM) STOP	FLOW RATE (CFM) AVERAGE	RUNNING TIME (HRS) START	RUNNING TIME (HRS) STOP	TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
CU125178	2.0	2.0	2.0	7/02/20 07:25	7/02/20 16:35	550	1.1	Asbestos	2.00

SAMPLE NO. **PE-ASB070220-B606DOWNWIND** 7/2/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM) START	FLOW RATE (CFM) STOP	FLOW RATE (CFM) AVERAGE	RUNNING TIME (HRS) START	RUNNING TIME (HRS) STOP	TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
CU085978	2.0	2.0	2.0	7/02/20 07:35	7/02/20 16:48	553	1.1	Asbestos	2.00

SAMPLE NO. **PE-ASB-BLANK-B606UPWIND** 6/30/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM) START	FLOW RATE (CFM) STOP	FLOW RATE (CFM) AVERAGE	RUNNING TIME (HRS) START	RUNNING TIME (HRS) STOP	TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
CU085976	2.0	2.0	2.0	6/30/20 07:22	6/30/20 07:22	0	0.0	Asbestos	2.00

SAMPLE NO. **PE-ASB-BLANK-B606DOWNWIND** 6/30/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM) START	FLOW RATE (CFM) STOP	FLOW RATE (CFM) AVERAGE	RUNNING TIME (HRS) START	RUNNING TIME (HRS) STOP	TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
CU125139	2.0	2.0	2.0	6/30/20 07:22	6/30/20 07:22	0	0.0	Asbestos	2.00

SAMPLE NO. **PE-ASB-BLANK-B606UPWIND** 7/2/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM) START	FLOW RATE (CFM) STOP	FLOW RATE (CFM) AVERAGE	RUNNING TIME (HRS) START	RUNNING TIME (HRS) STOP	TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
CU125092	2.0	2.0	2.0	7/02/20 07:22	7/02/20 07:22	0	0.0	Asbestos	2.00

SAMPLE NO. **PE-ASB-BLANK-B606DOWNWIND** 7/2/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM) START	FLOW RATE (CFM) STOP	FLOW RATE (CFM) AVERAGE	RUNNING TIME (HRS) START	RUNNING TIME (HRS) STOP	TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
CU085982	2.0	2.0	2.0	7/02/20 07:22	7/02/20 07:22	0	0.0	Asbestos	2.00

32472

HORM HAHRLT
9253838622
APTIM - ALAMEDA
APTIM FEDERAL SERVICES
ALAMEDA CA 94501

10 LBS

1 OF 1

DWT: 12.6.3

SHIP TO:
TERRI CHANG
714 895-5494
EUROFINS CALSCIENCE
7440 LINCOLN WAY
GARDEN GROVE CA 92841-1427

CA 927 9-09

UPS NEXT DAY AIR SAVER 1P

TRACKING #: 1Z 89V 462 13 9348 8432

BILLING: P/P

Charge to Coding: 00701.500712.4701.03012310
Sender's Name: Eddie Kalombo

570-32472 Waybill

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-32472-1

Login Number: 32472
List Number: 1
Creator: Ramos, Maribel

List Source: Eurofins Calscience

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

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 570-32473-1
Client Project/Site: HPNS - Parcel E / 500712

For:
Aptim Federal Services LLC
4005 Port Chicago Hwy, Suite 200
Concord, California 94520

Attn: Rose Condit

Authorized for release by:
7/16/2020 2:03:11 PM

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

Table of Contents

Definitions/Glossary

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

Job ID: 570-32473-1

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: 570-32473-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-32473-1

Comments
No additional comments.

Receipt
The samples were received on 7/3/2020 10:20 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.

Detection Summary

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

Job ID: 570-32473-1

Client Sample ID: PE-TSP061520-B606UPWIND — Lab Sample ID: 570-32473-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	28.2		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	56.1		4.56		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP061520-B606DOWNWIND — Lab Sample ID: 570-32473-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	28.3		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	45.1		4.57		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM061520-B606UPWIND — Lab Sample ID: 570-32473-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	27.8		4.56		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM061520-B606DOWNWIND — Lab Sample ID: 570-32473-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	31.7		4.57		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP061620-B606UPWIND — Lab Sample ID: 570-32473-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	13.8		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	43.6		4.51		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP061620-B606DOWNWIND — Lab Sample ID: 570-32473-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	11.6		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	32.5		4.51		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM06162020-B606UPWIND — Lab Sample ID: 570-32473-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	27.4		4.51		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM06162020-B606DOWNWIND — Lab Sample ID: 570-32473-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	31.7		4.51		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP061720-B606UPWIND — Lab Sample ID: 570-32473-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	24.2		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	58.0		4.59		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP061720-B606DOWNWIND — Lab Sample ID: 570-32473-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	15.2		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	33.1		4.57		ug/m3	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 570-32473-1

Client Sample ID: APTIMPM061720-B606UPWIND — Lab Sample ID: 570-32473-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	33.4		4.59		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM061720-B606DOWNWIND — Lab Sample ID: 570-32473-12

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	37.7		4.57		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP061820-B606UPWIND — Lab Sample ID: 570-32473-13

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	27.4		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	75.3		4.57		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP061820-B606DOWNWIND — Lab Sample ID: 570-32473-14

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	22.5		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	62.5		4.57		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM061820-B606UPWIND — Lab Sample ID: 570-32473-15

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	50.3		4.57		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM061820-B606DOWNWIND — Lab Sample ID: 570-32473-16

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	68.5		4.57		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP061920-B606UPWIND — Lab Sample ID: 570-32473-17

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	18.2		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	53.1		4.53		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP061920-B606DOWNWIND — Lab Sample ID: 570-32473-18

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	15.7		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	38.0		4.53		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM061920-B606UPWIND — Lab Sample ID: 570-32473-19

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	32.3		4.53		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM061920-B606DOWNWIND — Lab Sample ID: 570-32473-20

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	40.6		4.53		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP062020-B606UPWIND — Lab Sample ID: 570-32473-21

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	27.0		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	42.1		4.51		ug/m3	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 570-32473-1

Client Sample ID: PE-TSP062020-B606DOWNWIND — Lab Sample ID: 570-32473-22

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	7.09		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	17.1		4.53		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM062020-B606UPWIND — Lab Sample ID: 570-32473-23

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	23.8		4.51		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM062020-B606DOWNWIND — Lab Sample ID: 570-32473-24

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	24.7		4.53		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP062220-B606UPWIND — Lab Sample ID: 570-32473-25

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	23.4		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	46.8		4.61		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP062220-B606DOWNWIND — Lab Sample ID: 570-32473-26

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	15.0		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	33.5		4.57		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM062220-B606UPWIND — Lab Sample ID: 570-32473-27

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	34.5		4.61		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM062220-B606DOWNWIND — Lab Sample ID: 570-32473-28

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	43.3		4.57		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP062320-B606UPWIND — Lab Sample ID: 570-32473-29

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	18.5		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	37.5		4.56		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP062320-B606DOWNWIND — Lab Sample ID: 570-32473-30

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	14.2		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	27.3		4.56		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM062320-B606UPWIND — Lab Sample ID: 570-32473-31

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	27.3		4.56		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM062320-B606DOWNWIND — Lab Sample ID: 570-32473-32

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	33.7		4.56		ug/m3	1		PM10	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 570-32473-1

Client Sample ID: PE-TSP062420-B606UPWIND — Lab Sample ID: 570-32473-33

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	13.6		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	34.4		4.55		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP062420-B606DOWNWIND — Lab Sample ID: 570-32473-34

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	15.0		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	29.7		4.57		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM06420-B606UPWIND — Lab Sample ID: 570-32473-35

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	28.8		4.55		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM06420-B606DOWNWIND — Lab Sample ID: 570-32473-36

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	35.6		4.57		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP062520-B606UPWIND — Lab Sample ID: 570-32473-37

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	16.6		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	35.4		4.54		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP062520-B606DOWNWIND — Lab Sample ID: 570-32473-38

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	8.35		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	20.1		4.53		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM062520-B606UPWIND — Lab Sample ID: 570-32473-39

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	27.3		4.54		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM062520-B606DOWNWIND — Lab Sample ID: 570-32473-40

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	30.4		4.53		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP062620-B606UPWIND — Lab Sample ID: 570-32473-41

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	7.14		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	30.5		4.60		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP062620-B606DOWNWIND — Lab Sample ID: 570-32473-42

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	8.57		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	22.9		4.54		ug/m3	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 570-32473-1

Client Sample ID: APTIMPM062620-B606UPWIND — Lab Sample ID: 570-32473-43

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	32.8		4.60		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM062620-B606DOWNWIND — Lab Sample ID: 570-32473-44

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	36.8		4.54		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP062720-B606UPWIND — Lab Sample ID: 570-32473-45

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Lead	18.2		12.0		ug/Sample	1		6010B	Total/NA
Manganese	41.0		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	74.1		4.53		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP062720-B606DOWNWIND — Lab Sample ID: 570-32473-46

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	10.7		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	35.2		4.64		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM062720-B606UPWIND — Lab Sample ID: 570-32473-47

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	21.2		4.53		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM062720-B606DOWNWIND — Lab Sample ID: 570-32473-48

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	24.0		4.64		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP062920-B606UPWIND — Lab Sample ID: 570-32473-49

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	13.2		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	61.5		4.64		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP062920-B606DOWNWIND — Lab Sample ID: 570-32473-50

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	10.9		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	49.1		4.59		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM062920-B606UPWIND — Lab Sample ID: 570-32473-51

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	41.9		4.64		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM062920-B606DOWNWIND — Lab Sample ID: 570-32473-52

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	49.6		4.59		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP063020-B606UPWIND — Lab Sample ID: 570-32473-53

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	17.0		6.00		ug/Sample	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

Client Sample ID: PE-TSP063020-B606UPWIND (Continued) — Lab Sample ID: 570-32473-53

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	62.2		4.86		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP063020-B606DOWNWIND — Lab Sample ID: 570-32473-54

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	10.0		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	44.9		4.88		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM063020-B606UPWIND — Lab Sample ID: 570-32473-55

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	42.9		4.86		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM063020-B606DOWNWIND — Lab Sample ID: 570-32473-56

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	100		4.88		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP070120-B606UPWIND — Lab Sample ID: 570-32473-57

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	24.2		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	66.5		4.77		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP070120-B606DOWNWIND — Lab Sample ID: 570-32473-58

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	9.58		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	35.3		4.77		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM070120-B606UPWIND — Lab Sample ID: 570-32473-59

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	55.7		4.86		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM070120-B606DOWNWIND — Lab Sample ID: 570-32473-60

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	40.7		4.77		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP070220-B606UPWIND — Lab Sample ID: 570-32473-61

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	10.9		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	27.9		4.61		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP070220-B606DOWNWIND — Lab Sample ID: 570-32473-62

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Lead	12.5		12.0		ug/Sample	1		6010B	Total/NA
Manganese	15.2		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	16.6		4.73		ug/m3	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 570-32473-1

Client Sample ID: APTIMPM070220-B606UPWIND — Lab Sample ID: 570-32473-63

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	25.9		4.61		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM070220-B606DOWNWIND — Lab Sample ID: 570-32473-64

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	26.8		4.73		ug/m3	1		PM10	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP061520-B606UPWIND
Date Collected: 06/15/20 07:00
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-1
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 02:21	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 02:21	1
Manganese	**28.2**		6.00		ug/Sample		07/09/20 13:15	07/10/20 02:21	1

Client Sample ID: PE-TSP061520-B606DOWNWIND
Date Collected: 06/15/20 07:08
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-2
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 02:28	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 02:28	1
Manganese	**28.3**		6.00		ug/Sample		07/09/20 13:15	07/10/20 02:28	1

Client Sample ID: PE-TSP061620-B606UPWIND
Date Collected: 06/16/20 06:58
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-5
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 02:31	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 02:31	1
Manganese	**13.8**		6.00		ug/Sample		07/09/20 13:15	07/10/20 02:31	1

Client Sample ID: PE-TSP061620-B606DOWNWIND
Date Collected: 06/16/20 07:07
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-6
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 02:34	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 02:34	1
Manganese	**11.6**		6.00		ug/Sample		07/09/20 13:15	07/10/20 02:34	1

Client Sample ID: PE-TSP061720-B606UPWIND
Date Collected: 06/17/20 07:04
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-9
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 02:48	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 02:48	1
Manganese	**24.2**		6.00		ug/Sample		07/09/20 13:15	07/10/20 02:48	1

Client Sample ID: PE-TSP061720-B606DOWNWIND
Date Collected: 06/17/20 07:11
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-10
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 02:51	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 02:51	1
Manganese	**15.2**		6.00		ug/Sample		07/09/20 13:15	07/10/20 02:51	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP061820-B606UPWIND
Date Collected: 06/18/20 07:05
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-13
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 02:53	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 02:53	1
Manganese	**27.4**		6.00		ug/Sample		07/09/20 13:15	07/10/20 02:53	1

Client Sample ID: PE-TSP061820-B606DOWNWIND
Date Collected: 06/18/20 07:15
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-14
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 02:56	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 02:56	1
Manganese	**22.5**		6.00		ug/Sample		07/09/20 13:15	07/10/20 02:56	1

Client Sample ID: PE-TSP061920-B606UPWIND
Date Collected: 06/19/20 06:55
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-17
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 02:59	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 02:59	1
Manganese	**18.2**		6.00		ug/Sample		07/09/20 13:15	07/10/20 02:59	1

Client Sample ID: PE-TSP061920-B606DOWNWIND
Date Collected: 06/19/20 07:06
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-18
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 03:01	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 03:01	1
Manganese	**15.7**		6.00		ug/Sample		07/09/20 13:15	07/10/20 03:01	1

Client Sample ID: PE-TSP062020-B606UPWIND
Date Collected: 06/20/20 06:58
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-21
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 03:04	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 03:04	1
Manganese	**27.0**		6.00		ug/Sample		07/09/20 13:15	07/10/20 03:04	1

Client Sample ID: PE-TSP062020-B606DOWNWIND
Date Collected: 06/20/20 07:10
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-22
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 03:07	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 03:07	1
Manganese	**7.09**		6.00		ug/Sample		07/09/20 13:15	07/10/20 03:07	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP062220-B606UPWIND
Date Collected: 06/22/20 07:06
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-25
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 03:10	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 03:10	1
Manganese	**23.4**		6.00		ug/Sample		07/09/20 13:15	07/10/20 03:10	1

Client Sample ID: PE-TSP062220-B606DOWNWIND
Date Collected: 06/22/20 07:15
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-26
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 03:12	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 03:12	1
Manganese	**15.0**		6.00		ug/Sample		07/09/20 13:15	07/10/20 03:12	1

Client Sample ID: PE-TSP062320-B606UPWIND
Date Collected: 06/23/20 07:00
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-29
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 03:26	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 03:26	1
Manganese	**18.5**		6.00		ug/Sample		07/09/20 13:15	07/10/20 03:26	1

Client Sample ID: PE-TSP062320-B606DOWNWIND
Date Collected: 06/23/20 07:11
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-30
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 03:28	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 03:28	1
Manganese	**14.2**		6.00		ug/Sample		07/09/20 13:15	07/10/20 03:28	1

Client Sample ID: PE-TSP062420-B606UPWIND
Date Collected: 06/24/20 07:03
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-33
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 03:30	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 03:30	1
Manganese	**13.6**		6.00		ug/Sample		07/09/20 13:15	07/10/20 03:30	1

Client Sample ID: PE-TSP062420-B606DOWNWIND
Date Collected: 06/24/20 07:11
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-34
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 03:32	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 03:32	1
Manganese	**15.0**		6.00		ug/Sample		07/09/20 13:15	07/10/20 03:32	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP062520-B606UPWIND
Date Collected: 06/25/20 07:00
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-37
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 03:35	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 03:35	1
Manganese	**16.6**		6.00		ug/Sample		07/09/20 13:15	07/10/20 03:35	1

Client Sample ID: PE-TSP062520-B606DOWNWIND
Date Collected: 06/25/20 07:08
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-38
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 03:37	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 03:37	1
Manganese	**8.35**		6.00		ug/Sample		07/09/20 13:15	07/10/20 03:37	1

Client Sample ID: PE-TSP062620-B606UPWIND
Date Collected: 06/26/20 07:00
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-41
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 18:30	1
Lead	ND		12.0		ug/Sample		07/09/20 14:30	07/09/20 18:30	1
Manganese	**7.14**		6.00		ug/Sample		07/09/20 14:30	07/09/20 18:30	1

Client Sample ID: PE-TSP062620-B606DOWNWIND
Date Collected: 06/26/20 07:07
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-42
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 18:38	1
Lead	ND		12.0		ug/Sample		07/09/20 14:30	07/09/20 18:38	1
Manganese	**8.57**		6.00		ug/Sample		07/09/20 14:30	07/09/20 18:38	1

Client Sample ID: PE-TSP062720-B606UPWIND
Date Collected: 06/27/20 07:00
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-45
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 18:41	1
Lead	**18.2**		12.0		ug/Sample		07/09/20 14:30	07/09/20 18:41	1
Manganese	**41.0**		6.00		ug/Sample		07/09/20 14:30	07/09/20 18:41	1

Client Sample ID: PE-TSP062720-B606DOWNWIND
Date Collected: 06/27/20 07:24
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-46
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 18:43	1
Lead	ND		12.0		ug/Sample		07/09/20 14:30	07/09/20 18:43	1
Manganese	**10.7**		6.00		ug/Sample		07/09/20 14:30	07/09/20 18:43	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP062920-B606UPWIND
Date Collected: 06/29/20 07:04
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-49
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 18:57	1
Lead	ND		12.0		ug/Sample		07/09/20 14:30	07/09/20 18:57	1
Manganese	**13.2**		6.00		ug/Sample		07/09/20 14:30	07/09/20 18:57	1

Client Sample ID: PE-TSP062920-B606DOWNWIND
Date Collected: 06/29/20 07:11
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-50
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 19:00	1
Lead	ND		12.0		ug/Sample		07/09/20 14:30	07/09/20 19:00	1
Manganese	**10.9**		6.00		ug/Sample		07/09/20 14:30	07/09/20 19:00	1

Client Sample ID: PE-TSP063020-B606UPWIND
Date Collected: 06/30/20 07:30
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-53
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 19:03	1
Lead	ND		12.0		ug/Sample		07/09/20 14:30	07/09/20 19:03	1
Manganese	**17.0**		6.00		ug/Sample		07/09/20 14:30	07/09/20 19:03	1

Client Sample ID: PE-TSP063020-B606DOWNWIND
Date Collected: 06/30/20 07:45
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-54
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 19:06	1
Lead	ND		12.0		ug/Sample		07/09/20 14:30	07/09/20 19:06	1
Manganese	**10.0**		6.00		ug/Sample		07/09/20 14:30	07/09/20 19:06	1

Client Sample ID: PE-TSP070120-B606UPWIND
Date Collected: 07/01/20 07:25
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-57
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 19:08	1
Lead	ND		12.0		ug/Sample		07/09/20 14:30	07/09/20 19:08	1
Manganese	**24.2**		6.00		ug/Sample		07/09/20 14:30	07/09/20 19:08	1

Client Sample ID: PE-TSP070120-B606DOWNWIND
Date Collected: 07/01/20 07:35
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-58
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 19:11	1
Lead	ND		12.0		ug/Sample		07/09/20 14:30	07/09/20 19:11	1
Manganese	**9.58**		6.00		ug/Sample		07/09/20 14:30	07/09/20 19:11	1

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

Job ID: 570-32473-1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP070220-B606UPWIND
Date Collected: 07/02/20 07:10
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-61
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 19:14	1
Lead	ND		12.0		ug/Sample		07/09/20 14:30	07/09/20 19:14	1
Manganese	**10.9**		6.00		ug/Sample		07/09/20 14:30	07/09/20 19:14	1

Client Sample ID: PE-TSP070220-B606DOWNWIND
Date Collected: 07/02/20 07:35
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-62
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 19:17	1
Lead	**12.5**		12.0		ug/Sample		07/09/20 14:30	07/09/20 19:17	1
Manganese	**15.2**		6.00		ug/Sample		07/09/20 14:30	07/09/20 19:17	1

General Chemistry

Client Sample ID: PE-TSP061520-B606UPWIND — **Lab Sample ID: 570-32473-1**
Date Collected: 06/15/20 07:00 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	56.1		4.56		ug/m3			07/09/20 12:30	1

Client Sample ID: PE-TSP061520-B606DOWNWIND — **Lab Sample ID: 570-32473-2**
Date Collected: 06/15/20 07:08 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	45.1		4.57		ug/m3			07/09/20 12:30	1

Client Sample ID: APTIMPM061520-B606UPWIND — **Lab Sample ID: 570-32473-3**
Date Collected: 06/15/20 07:00 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	27.8		4.56		ug/m3			07/09/20 10:00	1

Client Sample ID: APTIMPM061520-B606DOWNWIND — **Lab Sample ID: 570-32473-4**
Date Collected: 06/15/20 07:08 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	31.7		4.57		ug/m3			07/09/20 10:00	1

Client Sample ID: PE-TSP061620-B606UPWIND — **Lab Sample ID: 570-32473-5**
Date Collected: 06/16/20 06:58 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	43.6		4.51		ug/m3			07/09/20 12:30	1

Client Sample ID: PE-TSP061620-B606DOWNWIND — **Lab Sample ID: 570-32473-6**
Date Collected: 06/16/20 07:07 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	32.5		4.51		ug/m3			07/09/20 12:30	1

Client Sample ID: APTIMPM06162020-B606UPWIND — **Lab Sample ID: 570-32473-7**
Date Collected: 06/16/20 06:58 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	27.4		4.51		ug/m3			07/09/20 10:00	1

Client Sample ID: APTIMPM06162020-B606DOWNWIND — **Lab Sample ID: 570-32473-8**
Date Collected: 06/16/20 07:07 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	31.7		4.51		ug/m3			07/09/20 10:00	1

General Chemistry

Client Sample ID: PE-TSP061720-B606UPWIND — **Lab Sample ID: 570-32473-9**
Date Collected: 06/17/20 07:04 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	58.0		4.59		ug/m3			07/09/20 12:30	1

Client Sample ID: PE-TSP061720-B606DOWNWIND — **Lab Sample ID: 570-32473-10**
Date Collected: 06/17/20 07:11 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	33.1		4.57		ug/m3			07/09/20 12:30	1

Client Sample ID: APTIMPM061720-B606UPWIND — **Lab Sample ID: 570-32473-11**
Date Collected: 06/17/20 07:04 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	33.4		4.59		ug/m3			07/09/20 10:00	1

Client Sample ID: APTIMPM061720-B606DOWNWIND — **Lab Sample ID: 570-32473-12**
Date Collected: 06/17/20 07:11 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	37.7		4.57		ug/m3			07/09/20 10:00	1

Client Sample ID: PE-TSP061820-B606UPWIND — **Lab Sample ID: 570-32473-13**
Date Collected: 06/18/20 07:05 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	75.3		4.57		ug/m3			07/09/20 12:30	1

Client Sample ID: PE-TSP061820-B606DOWNWIND — **Lab Sample ID: 570-32473-14**
Date Collected: 06/18/20 07:15 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	62.5		4.57		ug/m3			07/09/20 12:30	1

Client Sample ID: APTIMPM061820-B606UPWIND — **Lab Sample ID: 570-32473-15**
Date Collected: 06/18/20 07:05 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	50.3		4.57		ug/m3			07/09/20 10:00	1

Client Sample ID: APTIMPM061820-B606DOWNWIND — **Lab Sample ID: 570-32473-16**
Date Collected: 06/18/20 07:15 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	68.5		4.57		ug/m3			07/09/20 10:00	1

General Chemistry

Client Sample ID: PE-TSP061920-B606UPWIND
Lab Sample ID: 570-32473-17
Date Collected: 06/19/20 06:55
Matrix: Air
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	53.1		4.53		ug/m3			07/09/20 12:30	1

Client Sample ID: PE-TSP061920-B606DOWNWIND
Lab Sample ID: 570-32473-18
Date Collected: 06/19/20 07:06
Matrix: Air
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	38.0		4.53		ug/m3			07/09/20 12:30	1

Client Sample ID: APTIMPM061920-B606UPWIND
Lab Sample ID: 570-32473-19
Date Collected: 06/19/20 06:55
Matrix: Air
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	32.3		4.53		ug/m3			07/09/20 10:00	1

Client Sample ID: APTIMPM061920-B606DOWNWIND
Lab Sample ID: 570-32473-20
Date Collected: 06/19/20 07:06
Matrix: Air
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	40.6		4.53		ug/m3			07/09/20 10:00	1

Client Sample ID: PE-TSP062020-B606UPWIND
Lab Sample ID: 570-32473-21
Date Collected: 06/20/20 06:58
Matrix: Air
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	42.1		4.51		ug/m3			07/09/20 12:30	1

Client Sample ID: PE-TSP062020-B606DOWNWIND
Lab Sample ID: 570-32473-22
Date Collected: 06/20/20 07:10
Matrix: Air
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	17.1		4.53		ug/m3			07/09/20 12:30	1

Client Sample ID: APTIMPM062020-B606UPWIND
Lab Sample ID: 570-32473-23
Date Collected: 06/20/20 06:58
Matrix: Air
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	23.8		4.51		ug/m3			07/09/20 10:00	1

Client Sample ID: APTIMPM062020-B606DOWNWIND
Lab Sample ID: 570-32473-24
Date Collected: 06/20/20 07:10
Matrix: Air
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	24.7		4.53		ug/m3			07/09/20 10:00	1

General Chemistry

Client Sample ID: PE-TSP062220-B606UPWIND — **Lab Sample ID: 570-32473-25**
Date Collected: 06/22/20 07:06 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	46.8		4.61		ug/m3			07/09/20 12:30	1

Client Sample ID: PE-TSP062220-B606DOWNWIND — **Lab Sample ID: 570-32473-26**
Date Collected: 06/22/20 07:15 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	33.5		4.57		ug/m3			07/09/20 12:30	1

Client Sample ID: APTIMPM062220-B606UPWIND — **Lab Sample ID: 570-32473-27**
Date Collected: 06/22/20 07:06 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	34.5		4.61		ug/m3			07/09/20 10:00	1

Client Sample ID: APTIMPM062220-B606DOWNWIND — **Lab Sample ID: 570-32473-28**
Date Collected: 06/22/20 07:15 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	43.3		4.57		ug/m3			07/09/20 10:00	1

Client Sample ID: PE-TSP062320-B606UPWIND — **Lab Sample ID: 570-32473-29**
Date Collected: 06/23/20 07:00 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	37.5		4.56		ug/m3			07/09/20 12:30	1

Client Sample ID: PE-TSP062320-B606DOWNWIND — **Lab Sample ID: 570-32473-30**
Date Collected: 06/23/20 07:11 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	27.3		4.56		ug/m3			07/09/20 12:30	1

Client Sample ID: APTIMPM062320-B606UPWIND — **Lab Sample ID: 570-32473-31**
Date Collected: 06/23/20 07:00 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	27.3		4.56		ug/m3			07/09/20 10:00	1

Client Sample ID: APTIMPM062320-B606DOWNWIND — **Lab Sample ID: 570-32473-32**
Date Collected: 06/23/20 07:11 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	33.7		4.56		ug/m3			07/09/20 10:00	1

General Chemistry

Client Sample ID: PE-TSP062420-B606UPWIND — **Lab Sample ID: 570-32473-33**
Date Collected: 06/24/20 07:03 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	34.4		4.55		ug/m3			07/09/20 12:30	1

Client Sample ID: PE-TSP062420-B606DOWNWIND — **Lab Sample ID: 570-32473-34**
Date Collected: 06/24/20 07:11 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	29.7		4.57		ug/m3			07/09/20 12:30	1

Client Sample ID: APTIMPM06420-B606UPWIND — **Lab Sample ID: 570-32473-35**
Date Collected: 06/24/20 07:03 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	28.8		4.55		ug/m3			07/09/20 10:00	1

Client Sample ID: APTIMPM06420-B606DOWNWIND — **Lab Sample ID: 570-32473-36**
Date Collected: 06/24/20 07:11 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	35.6		4.57		ug/m3			07/09/20 10:00	1

Client Sample ID: PE-TSP062520-B606UPWIND — **Lab Sample ID: 570-32473-37**
Date Collected: 06/25/20 07:00 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	35.4		4.54		ug/m3			07/09/20 12:30	1

Client Sample ID: PE-TSP062520-B606DOWNWIND — **Lab Sample ID: 570-32473-38**
Date Collected: 06/25/20 07:08 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	20.1		4.53		ug/m3			07/09/20 12:30	1

Client Sample ID: APTIMPM062520-B606UPWIND — **Lab Sample ID: 570-32473-39**
Date Collected: 06/25/20 07:00 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	27.3		4.54		ug/m3			07/09/20 10:00	1

Client Sample ID: APTIMPM062520-B606DOWNWIND — **Lab Sample ID: 570-32473-40**
Date Collected: 06/25/20 07:08 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	30.4		4.53		ug/m3			07/09/20 10:00	1

General Chemistry

Client Sample ID: PE-TSP062620-B606UPWIND — **Lab Sample ID: 570-32473-41**
Date Collected: 06/26/20 07:00 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	30.5		4.60		ug/m3			07/09/20 13:15	1

Client Sample ID: PE-TSP062620-B606DOWNWIND — **Lab Sample ID: 570-32473-42**
Date Collected: 06/26/20 07:07 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	22.9		4.54		ug/m3			07/09/20 13:15	1

Client Sample ID: APTIMPM062620-B606UPWIND — **Lab Sample ID: 570-32473-43**
Date Collected: 06/26/20 07:00 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	32.8		4.60		ug/m3			07/09/20 11:00	1

Client Sample ID: APTIMPM062620-B606DOWNWIND — **Lab Sample ID: 570-32473-44**
Date Collected: 06/26/20 07:07 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	36.8		4.54		ug/m3			07/09/20 11:00	1

Client Sample ID: PE-TSP062720-B606UPWIND — **Lab Sample ID: 570-32473-45**
Date Collected: 06/27/20 07:00 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	74.1		4.53		ug/m3			07/09/20 13:15	1

Client Sample ID: PE-TSP062720-B606DOWNWIND — **Lab Sample ID: 570-32473-46**
Date Collected: 06/27/20 07:24 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	35.2		4.64		ug/m3			07/09/20 13:15	1

Client Sample ID: APTIMPM062720-B606UPWIND — **Lab Sample ID: 570-32473-47**
Date Collected: 06/27/20 07:00 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	21.2		4.53		ug/m3			07/09/20 11:00	1

Client Sample ID: APTIMPM062720-B606DOWNWIND — **Lab Sample ID: 570-32473-48**
Date Collected: 06/27/20 07:24 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	24.0		4.64		ug/m3			07/09/20 11:00	1

General Chemistry

Client Sample ID: PE-TSP062920-B606UPWIND — **Lab Sample ID: 570-32473-49**
Date Collected: 06/29/20 07:04 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	61.5		4.64		ug/m3			07/09/20 13:15	1

Client Sample ID: PE-TSP062920-B606DOWNWIND — **Lab Sample ID: 570-32473-50**
Date Collected: 06/29/20 07:11 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	49.1		4.59		ug/m3			07/09/20 13:15	1

Client Sample ID: APTIMPM062920-B606UPWIND — **Lab Sample ID: 570-32473-51**
Date Collected: 06/29/20 07:04 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	41.9		4.64		ug/m3			07/09/20 11:00	1

Client Sample ID: APTIMPM062920-B606DOWNWIND — **Lab Sample ID: 570-32473-52**
Date Collected: 06/29/20 07:11 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	49.6		4.59		ug/m3			07/09/20 11:00	1

Client Sample ID: PE-TSP063020-B606UPWIND — **Lab Sample ID: 570-32473-53**
Date Collected: 06/30/20 07:30 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	62.2		4.86		ug/m3			07/09/20 13:15	1

Client Sample ID: PE-TSP063020-B606DOWNWIND — **Lab Sample ID: 570-32473-54**
Date Collected: 06/30/20 07:45 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	44.9		4.88		ug/m3			07/09/20 13:15	1

Client Sample ID: APTIMPM063020-B606UPWIND — **Lab Sample ID: 570-32473-55**
Date Collected: 06/30/20 07:30 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	42.9		4.86		ug/m3			07/09/20 11:00	1

Client Sample ID: APTIMPM063020-B606DOWNWIND — **Lab Sample ID: 570-32473-56**
Date Collected: 06/30/20 07:45 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	100		4.88		ug/m3			07/09/20 11:00	1

General Chemistry

Client Sample ID: PE-TSP070120-B606UPWIND — **Lab Sample ID: 570-32473-57**
Date Collected: 07/01/20 07:25 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	66.5		4.77		ug/m3			07/09/20 13:15	1

Client Sample ID: PE-TSP070120-B606DOWNWIND — **Lab Sample ID: 570-32473-58**
Date Collected: 07/01/20 07:35 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	35.3		4.77		ug/m3			07/09/20 13:15	1

Client Sample ID: APTIMPM070120-B606UPWIND — **Lab Sample ID: 570-32473-59**
Date Collected: 07/01/20 07:35 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	55.7		4.86		ug/m3			07/09/20 11:00	1

Client Sample ID: APTIMPM070120-B606DOWNWIND — **Lab Sample ID: 570-32473-60**
Date Collected: 07/01/20 07:35 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	40.7		4.77		ug/m3			07/09/20 11:00	1

Client Sample ID: PE-TSP070220-B606UPWIND — **Lab Sample ID: 570-32473-61**
Date Collected: 07/02/20 07:10 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	27.9		4.61		ug/m3			07/09/20 13:15	1

Client Sample ID: PE-TSP070220-B606DOWNWIND — **Lab Sample ID: 570-32473-62**
Date Collected: 07/02/20 07:35 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	16.6		4.73		ug/m3			07/09/20 13:15	1

Client Sample ID: APTIMPM070220-B606UPWIND — **Lab Sample ID: 570-32473-63**
Date Collected: 07/02/20 07:10 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	25.9		4.61		ug/m3			07/09/20 11:00	1

Client Sample ID: APTIMPM070220-B606DOWNWIND — **Lab Sample ID: 570-32473-64**
Date Collected: 07/02/20 07:35 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	26.8		4.73		ug/m3			07/09/20 11:00	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-80296/1-A
Matrix: Air
Analysis Batch: 80434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 80296

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 02:12	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 02:12	1
Manganese	ND		6.00		ug/Sample		07/09/20 13:15	07/10/20 02:12	1

Lab Sample ID: LCS 570-80296/2-A
Matrix: Air
Analysis Batch: 80434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 80296

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			600	589.6		ug/Sample		98	80 - 120		
Lead			600	612.2		ug/Sample		102	80 - 120		
Manganese			600	587.5		ug/Sample		98	80 - 120		

Lab Sample ID: LCSD 570-80296/3-A
Matrix: Air
Analysis Batch: 80434

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 80296

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic			600	539.3		ug/Sample		90	80 - 120	9	20
Lead			600	570.6		ug/Sample		95	80 - 120	7	20
Manganese			600	557.4		ug/Sample		93	80 - 120	5	20

Lab Sample ID: 570-32473-1 MS
Matrix: Air
Analysis Batch: 80434

Client Sample ID: PE-TSP061520-B606UPWIND
Prep Type: Total/NA
Prep Batch: 80296

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	ND		600	619.5		ug/Sample		103	75 - 125		
Lead	ND		600	626.0		ug/Sample		103	75 - 125		
Manganese	28.2		600	625.8		ug/Sample		100	75 - 125		

Lab Sample ID: 570-32473-1 MSD
Matrix: Air
Analysis Batch: 80434

Client Sample ID: PE-TSP061520-B606UPWIND
Prep Type: Total/NA
Prep Batch: 80296

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		600	612.6		ug/Sample		102	75 - 125	1	20
Lead	ND		600	623.6		ug/Sample		103	75 - 125	0	20
Manganese	28.2		600	623.9		ug/Sample		99	75 - 125	0	20

Lab Sample ID: MB 570-80325/1-A
Matrix: Air
Analysis Batch: 80434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 80325

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 18:21	1
Lead	ND		12.0		ug/Sample		07/09/20 14:30	07/09/20 18:21	1
Manganese	ND		6.00		ug/Sample		07/09/20 14:30	07/09/20 18:21	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 570-80325/2-A
Matrix: Air
Analysis Batch: 80434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 80325

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			600	493.8		ug/Sample		82	80 - 120		
Lead			600	537.6		ug/Sample		90	80 - 120		
Manganese			600	534.8		ug/Sample		89	80 - 120		

Lab Sample ID: LCSD 570-80325/3-A
Matrix: Air
Analysis Batch: 80434

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 80325

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic			600	498.9		ug/Sample		83	80 - 120	1	20
Lead			600	534.4		ug/Sample		89	80 - 120	1	20
Manganese			600	538.1		ug/Sample		90	80 - 120	1	20

Lab Sample ID: 570-32473-41 MS
Matrix: Air
Analysis Batch: 80434

Client Sample ID: PE-TSP062620-B606UPWIND
Prep Type: Total/NA
Prep Batch: 80325

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	ND		600	529.8		ug/Sample		86	75 - 125		
Lead	ND		600	571.6		ug/Sample		95	75 - 125		
Manganese	7.14		600	563.8		ug/Sample		93	75 - 125		

Lab Sample ID: 570-32473-41 MSD
Matrix: Air
Analysis Batch: 80434

Client Sample ID: PE-TSP062620-B606UPWIND
Prep Type: Total/NA
Prep Batch: 80325

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		600	545.4		ug/Sample		89	75 - 125	3	20
Lead	ND		600	581.1		ug/Sample		96	75 - 125	2	20
Manganese	7.14		600	568.0		ug/Sample		93	75 - 125	1	20

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

Lab Sample ID: MB 570-80892/1-A
Matrix: Air
Analysis Batch: 80903

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	ND		1.23		ug/m3			07/09/20 12:30	1

Lab Sample ID: 570-32473-1 DU
Matrix: Air
Analysis Batch: 80903

Client Sample ID: PE-TSP061520-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	56.1			56.07		ug/m3				0	25

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

Lab Sample ID: MB 570-80896/1-A
Matrix: Air
Analysis Batch: 80909

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	ND		1.23		ug/m3			07/09/20 13:15	1

Lab Sample ID: 570-32473-41 DU
Matrix: Air
Analysis Batch: 80909

Client Sample ID: PE-TSP062620-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	30.5			30.50		ug/m3				0	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-80649/1
Matrix: Air
Analysis Batch: 80649

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		1.23		ug/m3			07/09/20 10:00	1

Lab Sample ID: 570-32473-3 DU
Matrix: Air
Analysis Batch: 80649

Client Sample ID: APTIMPM061520-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	27.8			27.80		ug/m3				0	25

Lab Sample ID: MB 570-80659/1
Matrix: Air
Analysis Batch: 80659

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		1.23		ug/m3			07/09/20 11:00	1

Lab Sample ID: 570-32473-43 DU
Matrix: Air
Analysis Batch: 80659

Client Sample ID: APTIMPM062620-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	32.8			32.80		ug/m3				0	25

Metals

Prep Batch: 80296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-1	PE-TSP061520-B606UPWIND	Total/NA	Air	3050B	
570-32473-2	PE-TSP061520-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-5	PE-TSP061620-B606UPWIND	Total/NA	Air	3050B	
570-32473-6	PE-TSP061620-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-9	PE-TSP061720-B606UPWIND	Total/NA	Air	3050B	
570-32473-10	PE-TSP061720-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-13	PE-TSP061820-B606UPWIND	Total/NA	Air	3050B	
570-32473-14	PE-TSP061820-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-17	PE-TSP061920-B606UPWIND	Total/NA	Air	3050B	
570-32473-18	PE-TSP061920-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-21	PE-TSP062020-B606UPWIND	Total/NA	Air	3050B	
570-32473-22	PE-TSP062020-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-25	PE-TSP062220-B606UPWIND	Total/NA	Air	3050B	
570-32473-26	PE-TSP062220-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-29	PE-TSP062320-B606UPWIND	Total/NA	Air	3050B	
570-32473-30	PE-TSP062320-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-33	PE-TSP062420-B606UPWIND	Total/NA	Air	3050B	
570-32473-34	PE-TSP062420-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-37	PE-TSP062520-B606UPWIND	Total/NA	Air	3050B	
570-32473-38	PE-TSP062520-B606DOWNWIND	Total/NA	Air	3050B	
MB 570-80296/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-80296/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-80296/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-32473-1 MS	PE-TSP061520-B606UPWIND	Total/NA	Air	3050B	
570-32473-1 MSD	PE-TSP061520-B606UPWIND	Total/NA	Air	3050B	

Prep Batch: 80325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-41	PE-TSP062620-B606UPWIND	Total/NA	Air	3050B	
570-32473-42	PE-TSP062620-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-45	PE-TSP062720-B606UPWIND	Total/NA	Air	3050B	
570-32473-46	PE-TSP062720-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-49	PE-TSP062920-B606UPWIND	Total/NA	Air	3050B	
570-32473-50	PE-TSP062920-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-53	PE-TSP063020-B606UPWIND	Total/NA	Air	3050B	
570-32473-54	PE-TSP063020-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-57	PE-TSP070120-B606UPWIND	Total/NA	Air	3050B	
570-32473-58	PE-TSP070120-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-61	PE-TSP070220-B606UPWIND	Total/NA	Air	3050B	
570-32473-62	PE-TSP070220-B606DOWNWIND	Total/NA	Air	3050B	
MB 570-80325/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-80325/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-80325/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-32473-41 MS	PE-TSP062620-B606UPWIND	Total/NA	Air	3050B	
570-32473-41 MSD	PE-TSP062620-B606UPWIND	Total/NA	Air	3050B	

Analysis Batch: 80434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-1	PE-TSP061520-B606UPWIND	Total/NA	Air	6010B	80296
570-32473-2	PE-TSP061520-B606DOWNWIND	Total/NA	Air	6010B	80296
570-32473-5	PE-TSP061620-B606UPWIND	Total/NA	Air	6010B	80296

Metals (Continued)

Analysis Batch: 80434 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-6	PE-TSP061620-B606DOWNWIND	Total/NA	Air	6010B	80296
570-32473-9	PE-TSP061720-B606UPWIND	Total/NA	Air	6010B	80296
570-32473-10	PE-TSP061720-B606DOWNWIND	Total/NA	Air	6010B	80296
570-32473-13	PE-TSP061820-B606UPWIND	Total/NA	Air	6010B	80296
570-32473-14	PE-TSP061820-B606DOWNWIND	Total/NA	Air	6010B	80296
570-32473-17	PE-TSP061920-B606UPWIND	Total/NA	Air	6010B	80296
570-32473-18	PE-TSP061920-B606DOWNWIND	Total/NA	Air	6010B	80296
570-32473-21	PE-TSP062020-B606UPWIND	Total/NA	Air	6010B	80296
570-32473-22	PE-TSP062020-B606DOWNWIND	Total/NA	Air	6010B	80296
570-32473-25	PE-TSP062220-B606UPWIND	Total/NA	Air	6010B	80296
570-32473-26	PE-TSP062220-B606DOWNWIND	Total/NA	Air	6010B	80296
570-32473-29	PE-TSP062320-B606UPWIND	Total/NA	Air	6010B	80296
570-32473-30	PE-TSP062320-B606DOWNWIND	Total/NA	Air	6010B	80296
570-32473-33	PE-TSP062420-B606UPWIND	Total/NA	Air	6010B	80296
570-32473-34	PE-TSP062420-B606DOWNWIND	Total/NA	Air	6010B	80296
570-32473-37	PE-TSP062520-B606UPWIND	Total/NA	Air	6010B	80296
570-32473-38	PE-TSP062520-B606DOWNWIND	Total/NA	Air	6010B	80296
570-32473-41	PE-TSP062620-B606UPWIND	Total/NA	Air	6010B	80325
570-32473-42	PE-TSP062620-B606DOWNWIND	Total/NA	Air	6010B	80325
570-32473-45	PE-TSP062720-B606UPWIND	Total/NA	Air	6010B	80325
570-32473-46	PE-TSP062720-B606DOWNWIND	Total/NA	Air	6010B	80325
570-32473-49	PE-TSP062920-B606UPWIND	Total/NA	Air	6010B	80325
570-32473-50	PE-TSP062920-B606DOWNWIND	Total/NA	Air	6010B	80325
570-32473-53	PE-TSP063020-B606UPWIND	Total/NA	Air	6010B	80325
570-32473-54	PE-TSP063020-B606DOWNWIND	Total/NA	Air	6010B	80325
570-32473-57	PE-TSP070120-B606UPWIND	Total/NA	Air	6010B	80325
570-32473-58	PE-TSP070120-B606DOWNWIND	Total/NA	Air	6010B	80325
570-32473-61	PE-TSP070220-B606UPWIND	Total/NA	Air	6010B	80325
570-32473-62	PE-TSP070220-B606DOWNWIND	Total/NA	Air	6010B	80325
MB 570-80296/1-A	Method Blank	Total/NA	Air	6010B	80296
MB 570-80325/1-A	Method Blank	Total/NA	Air	6010B	80325
LCS 570-80296/2-A	Lab Control Sample	Total/NA	Air	6010B	80296
LCS 570-80325/2-A	Lab Control Sample	Total/NA	Air	6010B	80325
LCSD 570-80296/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	80296
LCSD 570-80325/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	80325
570-32473-1 MS	PE-TSP061520-B606UPWIND	Total/NA	Air	6010B	80296
570-32473-1 MSD	PE-TSP061520-B606UPWIND	Total/NA	Air	6010B	80296
570-32473-41 MS	PE-TSP062620-B606UPWIND	Total/NA	Air	6010B	80325
570-32473-41 MSD	PE-TSP062620-B606UPWIND	Total/NA	Air	6010B	80325

General Chemistry

Analysis Batch: 80649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-3	APTIMPM061520-B606UPWIND	Total/NA	Air	PM10	
570-32473-4	APTIMPM061520-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-7	APTIMPM06162020-B606UPWIND	Total/NA	Air	PM10	
570-32473-8	APTIMPM06162020-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-11	APTIMPM061720-B606UPWIND	Total/NA	Air	PM10	
570-32473-12	APTIMPM061720-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-15	APTIMPM061820-B606UPWIND	Total/NA	Air	PM10	

General Chemistry (Continued)

Analysis Batch: 80649 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-16	APTIMPM061820-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-19	APTIMPM061920-B606UPWIND	Total/NA	Air	PM10	
570-32473-20	APTIMPM061920-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-23	APTIMPM062020-B606UPWIND	Total/NA	Air	PM10	
570-32473-24	APTIMPM062020-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-27	APTIMPM062220-B606UPWIND	Total/NA	Air	PM10	
570-32473-28	APTIMPM062220-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-31	APTIMPM062320-B606UPWIND	Total/NA	Air	PM10	
570-32473-32	APTIMPM062320-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-35	APTIMPM06420-B606UPWIND	Total/NA	Air	PM10	
570-32473-36	APTIMPM06420-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-39	APTIMPM062520-B606UPWIND	Total/NA	Air	PM10	
570-32473-40	APTIMPM062520-B606DOWNWIND	Total/NA	Air	PM10	
MB 570-80649/1	Method Blank	Total/NA	Air	PM10	
570-32473-3 DU	APTIMPM061520-B606UPWIND	Total/NA	Air	PM10	

Analysis Batch: 80659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-43	APTIMPM062620-B606UPWIND	Total/NA	Air	PM10	
570-32473-44	APTIMPM062620-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-47	APTIMPM062720-B606UPWIND	Total/NA	Air	PM10	
570-32473-48	APTIMPM062720-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-51	APTIMPM062920-B606UPWIND	Total/NA	Air	PM10	
570-32473-52	APTIMPM062920-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-55	APTIMPM063020-B606UPWIND	Total/NA	Air	PM10	
570-32473-56	APTIMPM063020-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-59	APTIMPM070120-B606UPWIND	Total/NA	Air	PM10	
570-32473-60	APTIMPM070120-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-63	APTIMPM070220-B606UPWIND	Total/NA	Air	PM10	
570-32473-64	APTIMPM070220-B606DOWNWIND	Total/NA	Air	PM10	
MB 570-80659/1	Method Blank	Total/NA	Air	PM10	
570-32473-43 DU	APTIMPM062620-B606UPWIND	Total/NA	Air	PM10	

Pre Prep Batch: 80892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-1	PE-TSP061520-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-2	PE-TSP061520-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-5	PE-TSP061620-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-6	PE-TSP061620-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-9	PE-TSP061720-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-10	PE-TSP061720-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-13	PE-TSP061820-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-14	PE-TSP061820-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-17	PE-TSP061920-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-18	PE-TSP061920-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-21	PE-TSP062020-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-22	PE-TSP062020-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-25	PE-TSP062220-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-26	PE-TSP062220-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-29	PE-TSP062320-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-30	PE-TSP062320-B606DOWNWIND	Total/NA	Air	Filter to Air	

General Chemistry (Continued)

Pre Prep Batch: 80892 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-33	PE-TSP062420-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-34	PE-TSP062420-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-37	PE-TSP062520-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-38	PE-TSP062520-B606DOWNWIND	Total/NA	Air	Filter to Air	
MB 570-80892/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-32473-1 DU	PE-TSP061520-B606UPWIND	Total/NA	Air	Filter to Air	

Pre Prep Batch: 80896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-41	PE-TSP062620-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-42	PE-TSP062620-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-45	PE-TSP062720-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-46	PE-TSP062720-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-49	PE-TSP062920-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-50	PE-TSP062920-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-53	PE-TSP063020-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-54	PE-TSP063020-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-57	PE-TSP070120-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-58	PE-TSP070120-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-61	PE-TSP070220-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-62	PE-TSP070220-B606DOWNWIND	Total/NA	Air	Filter to Air	
MB 570-80896/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-32473-41 DU	PE-TSP062620-B606UPWIND	Total/NA	Air	Filter to Air	

Analysis Batch: 80903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-1	PE-TSP061520-B606UPWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-2	PE-TSP061520-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-5	PE-TSP061620-B606UPWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-6	PE-TSP061620-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-9	PE-TSP061720-B606UPWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-10	PE-TSP061720-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-13	PE-TSP061820-B606UPWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-14	PE-TSP061820-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-17	PE-TSP061920-B606UPWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-18	PE-TSP061920-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-21	PE-TSP062020-B606UPWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-22	PE-TSP062020-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-25	PE-TSP062220-B606UPWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-26	PE-TSP062220-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-29	PE-TSP062320-B606UPWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-30	PE-TSP062320-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-33	PE-TSP062420-B606UPWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-34	PE-TSP062420-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-37	PE-TSP062520-B606UPWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-38	PE-TSP062520-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80892
MB 570-80892/1-A	Method Blank	Total/NA	Air	40CFR50 App B	80892
570-32473-1 DU	PE-TSP061520-B606UPWIND	Total/NA	Air	40CFR50 App B	80892

General Chemistry

Analysis Batch: 80909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-41	PE-TSP062620-B606UPWIND	Total/NA	Air	40CFR50 App B	80896
570-32473-42	PE-TSP062620-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80896
570-32473-45	PE-TSP062720-B606UPWIND	Total/NA	Air	40CFR50 App B	80896
570-32473-46	PE-TSP062720-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80896
570-32473-49	PE-TSP062920-B606UPWIND	Total/NA	Air	40CFR50 App B	80896
570-32473-50	PE-TSP062920-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80896
570-32473-53	PE-TSP063020-B606UPWIND	Total/NA	Air	40CFR50 App B	80896
570-32473-54	PE-TSP063020-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80896
570-32473-57	PE-TSP070120-B606UPWIND	Total/NA	Air	40CFR50 App B	80896
570-32473-58	PE-TSP070120-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80896
570-32473-61	PE-TSP070220-B606UPWIND	Total/NA	Air	40CFR50 App B	80896
570-32473-62	PE-TSP070220-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80896
MB 570-80896/1-A	Method Blank	Total/NA	Air	40CFR50 App B	80896
570-32473-41 DU	PE-TSP062620-B606UPWIND	Total/NA	Air	40CFR50 App B	80896

Lab Chronicle

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

Job ID: 570-32473-1

Client Sample ID: PE-TSP061520-B606UPWIND
Lab Sample ID: 570-32473-1
Date Collected: 06/15/20 07:00
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 02:21	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061520-B606DOWNWIND
Lab Sample ID: 570-32473-2
Date Collected: 06/15/20 07:08
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 02:28	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM061520-B606UPWIND
Lab Sample ID: 570-32473-3
Date Collected: 06/15/20 07:00
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3508 g	4.3691 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM061520-B606DOWNWIND
Lab Sample ID: 570-32473-4
Date Collected: 06/15/20 07:08
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3508 g	4.3716 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061620-B606UPWIND
Lab Sample ID: 570-32473-5
Date Collected: 06/16/20 06:58
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 02:31	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-32473-1

Client Sample ID: PE-TSP061620-B606DOWNWIND
Lab Sample ID: 570-32473-6
Date Collected: 06/16/20 07:07
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 02:34	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM06162020-B606UPWIND
Lab Sample ID: 570-32473-7
Date Collected: 06/16/20 06:58
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3526 g	4.3708 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM06162020-B606DOWNWIND
Lab Sample ID: 570-32473-8
Date Collected: 06/16/20 07:07
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3745 g	4.3956 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061720-B606UPWIND
Lab Sample ID: 570-32473-9
Date Collected: 06/17/20 07:04
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 02:48	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061720-B606DOWNWIND
Lab Sample ID: 570-32473-10
Date Collected: 06/17/20 07:11
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 02:51	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM061720-B606UPWIND
Lab Sample ID: 570-32473-11
Date Collected: 06/17/20 07:04
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3675 g	4.3893 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM061720-B606DOWNWIND
Lab Sample ID: 570-32473-12
Date Collected: 06/17/20 07:11
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3480 g	4.3727 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061820-B606UPWIND
Lab Sample ID: 570-32473-13
Date Collected: 06/18/20 07:05
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 02:53	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061820-B606DOWNWIND
Lab Sample ID: 570-32473-14
Date Collected: 06/18/20 07:15
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 02:56	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM061820-B606UPWIND
Lab Sample ID: 570-32473-15
Date Collected: 06/18/20 07:05
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3538 g	4.3868 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-32473-1

Client Sample ID: APTIMPM061820-B606DOWNWIND
Lab Sample ID: 570-32473-16
Date Collected: 06/18/20 07:15
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3597 g	4.4046 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061920-B606UPWIND
Lab Sample ID: 570-32473-17
Date Collected: 06/19/20 06:55
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 02:59	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061920-B606DOWNWIND
Lab Sample ID: 570-32473-18
Date Collected: 06/19/20 07:06
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 03:01	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM061920-B606UPWIND
Lab Sample ID: 570-32473-19
Date Collected: 06/19/20 06:55
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3190 g	4.3404 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM061920-B606DOWNWIND
Lab Sample ID: 570-32473-20
Date Collected: 06/19/20 07:06
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3500 g	4.3769 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062020-B606UPWIND
Lab Sample ID: 570-32473-21
Date Collected: 06/20/20 06:58
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 03:04	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062020-B606DOWNWIND
Lab Sample ID: 570-32473-22
Date Collected: 06/20/20 07:10
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 03:07	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062020-B606UPWIND
Lab Sample ID: 570-32473-23
Date Collected: 06/20/20 06:58
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3453 g	4.3611 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062020-B606DOWNWIND
Lab Sample ID: 570-32473-24
Date Collected: 06/20/20 07:10
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3466 g	4.3630 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062220-B606UPWIND
Lab Sample ID: 570-32473-25
Date Collected: 06/22/20 07:06
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 03:10	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062220-B606DOWNWIND
Lab Sample ID: 570-32473-26
Date Collected: 06/22/20 07:15
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 03:12	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062220-B606UPWIND
Lab Sample ID: 570-32473-27
Date Collected: 06/22/20 07:06
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3468 g	4.3693 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062220-B606DOWNWIND
Lab Sample ID: 570-32473-28
Date Collected: 06/22/20 07:15
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3594 g	4.3878 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062320-B606UPWIND
Lab Sample ID: 570-32473-29
Date Collected: 06/23/20 07:00
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 03:26	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062320-B606DOWNWIND
Lab Sample ID: 570-32473-30
Date Collected: 06/23/20 07:11
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 03:28	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062320-B606UPWIND
Lab Sample ID: 570-32473-31
Date Collected: 06/23/20 07:00
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3308 g	4.3488 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062320-B606DOWNWIND
Lab Sample ID: 570-32473-32
Date Collected: 06/23/20 07:11
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3420 g	4.3642 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062420-B606UPWIND
Lab Sample ID: 570-32473-33
Date Collected: 06/24/20 07:03
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 03:30	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062420-B606DOWNWIND
Lab Sample ID: 570-32473-34
Date Collected: 06/24/20 07:11
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 03:32	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM06420-B606UPWIND
Lab Sample ID: 570-32473-35
Date Collected: 06/24/20 07:03
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3420 g	4.3610 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-32473-1

Client Sample ID: APTIMPM06420-B606DOWNWIND
Lab Sample ID: 570-32473-36
Date Collected: 06/24/20 07:11
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3368 g	4.3602 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062520-B606UPWIND
Lab Sample ID: 570-32473-37
Date Collected: 06/25/20 07:00
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 03:35	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062520-B606DOWNWIND
Lab Sample ID: 570-32473-38
Date Collected: 06/25/20 07:08
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 03:37	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062520-B606UPWIND
Lab Sample ID: 570-32473-39
Date Collected: 06/25/20 07:00
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3502 g	4.3682 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062520-B606DOWNWIND
Lab Sample ID: 570-32473-40
Date Collected: 06/25/20 07:08
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3630 g	4.3831 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-32473-1

Client Sample ID: PE-TSP062620-B606UPWIND
Lab Sample ID: 570-32473-41
Date Collected: 06/26/20 07:00
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 18:30	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062620-B606DOWNWIND
Lab Sample ID: 570-32473-42
Date Collected: 06/26/20 07:07
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 18:38	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062620-B606UPWIND
Lab Sample ID: 570-32473-43
Date Collected: 06/26/20 07:00
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3588 g	4.3802 g	80659	07/09/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062620-B606DOWNWIND
Lab Sample ID: 570-32473-44
Date Collected: 06/26/20 07:07
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3454 g	4.3697 g	80659	07/09/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062720-B606UPWIND
Lab Sample ID: 570-32473-45
Date Collected: 06/27/20 07:00
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 18:41	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062720-B606DOWNWIND
Lab Sample ID: 570-32473-46
Date Collected: 06/27/20 07:24
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 18:43	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062720-B606UPWIND
Lab Sample ID: 570-32473-47
Date Collected: 06/27/20 07:00
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3780 g	4.3920 g	80659	07/09/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062720-B606DOWNWIND
Lab Sample ID: 570-32473-48
Date Collected: 06/27/20 07:24
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3545 g	4.3700 g	80659	07/09/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062920-B606UPWIND
Lab Sample ID: 570-32473-49
Date Collected: 06/29/20 07:04
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 18:57	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062920-B606DOWNWIND
Lab Sample ID: 570-32473-50
Date Collected: 06/29/20 07:11
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 19:00	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-32473-1

Client Sample ID: APTIMPM062920-B606UPWIND
Lab Sample ID: 570-32473-51
Date Collected: 06/29/20 07:04
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3557 g	4.3828 g	80659	07/09/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062920-B606DOWNWIND
Lab Sample ID: 570-32473-52
Date Collected: 06/29/20 07:11
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3224 g	4.3548 g	80659	07/09/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP063020-B606UPWIND
Lab Sample ID: 570-32473-53
Date Collected: 06/30/20 07:30
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 19:03	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP063020-B606DOWNWIND
Lab Sample ID: 570-32473-54
Date Collected: 06/30/20 07:45
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 19:06	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM063020-B606UPWIND
Lab Sample ID: 570-32473-55
Date Collected: 06/30/20 07:30
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3430 g	4.3695 g	80659	07/09/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-32473-1

Client Sample ID: APTIMPM063020-B606DOWNWIND
Lab Sample ID: 570-32473-56
Date Collected: 06/30/20 07:45
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3360 g	4.3977 g	80659	07/09/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP070120-B606UPWIND
Lab Sample ID: 570-32473-57
Date Collected: 07/01/20 07:25
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 19:08	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP070120-B606DOWNWIND
Lab Sample ID: 570-32473-58
Date Collected: 07/01/20 07:35
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 19:11	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM070120-B606UPWIND
Lab Sample ID: 570-32473-59
Date Collected: 07/01/20 07:35
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3375 g	4.3719 g	80659	07/09/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM070120-B606DOWNWIND
Lab Sample ID: 570-32473-60
Date Collected: 07/01/20 07:35
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3562 g	4.3818 g	80659	07/09/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-32473-1

Client Sample ID: PE-TSP070220-B606UPWIND
Lab Sample ID: 570-32473-61
Date Collected: 07/02/20 07:10
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 19:14	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP070220-B606DOWNWIND
Lab Sample ID: 570-32473-62
Date Collected: 07/02/20 07:35
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 19:17	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM070220-B606UPWIND
Lab Sample ID: 570-32473-63
Date Collected: 07/02/20 07:10
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3645 g	4.3814 g	80659	07/09/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM070220-B606DOWNWIND
Lab Sample ID: 570-32473-64
Date Collected: 07/02/20 07:35
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3808 g	4.3978 g	80659	07/09/20 11:00	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

Accreditation/Certification Summary

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

Job ID: 570-32473-1

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	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

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

Job ID: 570-32473-1

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
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

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

Sample Summary

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

Job ID: 570-32473-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-32473-1	PE-TSP061520-B606UPWIND	Air	06/15/20 07:00	07/03/20 10:20	
570-32473-2	PE-TSP061520-B606DOWNWIND	Air	06/15/20 07:08	07/03/20 10:20	
570-32473-3	APTIMPM061520-B606UPWIND	Air	06/15/20 07:00	07/03/20 10:20	
570-32473-4	APTIMPM061520-B606DOWNWIND	Air	06/15/20 07:08	07/03/20 10:20	
570-32473-5	PE-TSP061620-B606UPWIND	Air	06/16/20 06:58	07/03/20 10:20	
570-32473-6	PE-TSP061620-B606DOWNWIND	Air	06/16/20 07:07	07/03/20 10:20	
570-32473-7	APTIMPM06162020-B606UPWIND	Air	06/16/20 06:58	07/03/20 10:20	
570-32473-8	APTIMPM06162020-B606DOWNWIND	Air	06/16/20 07:07	07/03/20 10:20	
570-32473-9	PE-TSP061720-B606UPWIND	Air	06/17/20 07:04	07/03/20 10:20	
570-32473-10	PE-TSP061720-B606DOWNWIND	Air	06/17/20 07:11	07/03/20 10:20	
570-32473-11	APTIMPM061720-B606UPWIND	Air	06/17/20 07:04	07/03/20 10:20	
570-32473-12	APTIMPM061720-B606DOWNWIND	Air	06/17/20 07:11	07/03/20 10:20	
570-32473-13	PE-TSP061820-B606UPWIND	Air	06/18/20 07:05	07/03/20 10:20	
570-32473-14	PE-TSP061820-B606DOWNWIND	Air	06/18/20 07:15	07/03/20 10:20	
570-32473-15	APTIMPM061820-B606UPWIND	Air	06/18/20 07:05	07/03/20 10:20	
570-32473-16	APTIMPM061820-B606DOWNWIND	Air	06/18/20 07:15	07/03/20 10:20	
570-32473-17	PE-TSP061920-B606UPWIND	Air	06/19/20 06:55	07/03/20 10:20	
570-32473-18	PE-TSP061920-B606DOWNWIND	Air	06/19/20 07:06	07/03/20 10:20	
570-32473-19	APTIMPM061920-B606UPWIND	Air	06/19/20 06:55	07/03/20 10:20	
570-32473-20	APTIMPM061920-B606DOWNWIND	Air	06/19/20 07:06	07/03/20 10:20	
570-32473-21	PE-TSP062020-B606UPWIND	Air	06/20/20 06:58	07/03/20 10:20	
570-32473-22	PE-TSP062020-B606DOWNWIND	Air	06/20/20 07:10	07/03/20 10:20	
570-32473-23	APTIMPM062020-B606UPWIND	Air	06/20/20 06:58	07/03/20 10:20	
570-32473-24	APTIMPM062020-B606DOWNWIND	Air	06/20/20 07:10	07/03/20 10:20	
570-32473-25	PE-TSP062220-B606UPWIND	Air	06/22/20 07:06	07/03/20 10:20	
570-32473-26	PE-TSP062220-B606DOWNWIND	Air	06/22/20 07:15	07/03/20 10:20	
570-32473-27	APTIMPM062220-B606UPWIND	Air	06/22/20 07:06	07/03/20 10:20	
570-32473-28	APTIMPM062220-B606DOWNWIND	Air	06/22/20 07:15	07/03/20 10:20	
570-32473-29	PE-TSP062320-B606UPWIND	Air	06/23/20 07:00	07/03/20 10:20	
570-32473-30	PE-TSP062320-B606DOWNWIND	Air	06/23/20 07:11	07/03/20 10:20	
570-32473-31	APTIMPM062320-B606UPWIND	Air	06/23/20 07:00	07/03/20 10:20	
570-32473-32	APTIMPM062320-B606DOWNWIND	Air	06/23/20 07:11	07/03/20 10:20	
570-32473-33	PE-TSP062420-B606UPWIND	Air	06/24/20 07:03	07/03/20 10:20	
570-32473-34	PE-TSP062420-B606DOWNWIND	Air	06/24/20 07:11	07/03/20 10:20	
570-32473-35	APTIMPM06420-B606UPWIND	Air	06/24/20 07:03	07/03/20 10:20	
570-32473-36	APTIMPM06420-B606DOWNWIND	Air	06/24/20 07:11	07/03/20 10:20	
570-32473-37	PE-TSP062520-B606UPWIND	Air	06/25/20 07:00	07/03/20 10:20	
570-32473-38	PE-TSP062520-B606DOWNWIND	Air	06/25/20 07:08	07/03/20 10:20	
570-32473-39	APTIMPM062520-B606UPWIND	Air	06/25/20 07:00	07/03/20 10:20	
570-32473-40	APTIMPM062520-B606DOWNWIND	Air	06/25/20 07:08	07/03/20 10:20	
570-32473-41	PE-TSP062620-B606UPWIND	Air	06/26/20 07:00	07/03/20 10:20	
570-32473-42	PE-TSP062620-B606DOWNWIND	Air	06/26/20 07:07	07/03/20 10:20	
570-32473-43	APTIMPM062620-B606UPWIND	Air	06/26/20 07:00	07/03/20 10:20	
570-32473-44	APTIMPM062620-B606DOWNWIND	Air	06/26/20 07:07	07/03/20 10:20	
570-32473-45	PE-TSP062720-B606UPWIND	Air	06/27/20 07:00	07/03/20 10:20	
570-32473-46	PE-TSP062720-B606DOWNWIND	Air	06/27/20 07:24	07/03/20 10:20	
570-32473-47	APTIMPM062720-B606UPWIND	Air	06/27/20 07:00	07/03/20 10:20	
570-32473-48	APTIMPM062720-B606DOWNWIND	Air	06/27/20 07:24	07/03/20 10:20	
570-32473-49	PE-TSP062920-B606UPWIND	Air	06/29/20 07:04	07/03/20 10:20	
570-32473-50	PE-TSP062920-B606DOWNWIND	Air	06/29/20 07:11	07/03/20 10:20	
570-32473-51	APTIMPM062920-B606UPWIND	Air	06/29/20 07:04	07/03/20 10:20	
570-32473-52	APTIMPM062920-B606DOWNWIND	Air	06/29/20 07:11	07/03/20 10:20	
570-32473-53	PE-TSP063020-B606UPWIND	Air	06/30/20 07:30	07/03/20 10:20	

Sample Summary

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

Job ID: 570-32473-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-32473-54	PE-TSP063020-B606DOWNWIND	Air	06/30/20 07:45	07/03/20 10:20	
570-32473-55	APTIMPM063020-B606UPWIND	Air	06/30/20 07:30	07/03/20 10:20	
570-32473-56	APTIMPM063020-B606DOWNWIND	Air	06/30/20 07:45	07/03/20 10:20	
570-32473-57	PE-TSP070120-B606UPWIND	Air	07/01/20 07:25	07/03/20 10:20	
570-32473-58	PE-TSP070120-B606DOWNWIND	Air	07/01/20 07:35	07/03/20 10:20	
570-32473-59	APTIMPM070120-B606UPWIND	Air	07/01/20 07:35	07/03/20 10:20	
570-32473-60	APTIMPM070120-B606DOWNWIND	Air	07/01/20 07:35	07/03/20 10:20	
570-32473-61	PE-TSP070220-B606UPWIND	Air	07/02/20 07:10	07/03/20 10:20	
570-32473-62	PE-TSP070220-B606DOWNWIND	Air	07/02/20 07:35	07/03/20 10:20	
570-32473-63	APTIMPM070220-B606UPWIND	Air	07/02/20 07:10	07/03/20 10:20	
570-32473-64	APTIMPM070220-B606DOWNWIND	Air	07/02/20 07:35	07/03/20 10:20	

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

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

570-32473 Chain of Custody

Project Manager: *Nels Johnson*

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
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 #: 1155718
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Sampler's Name(s): EKK

	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 7300/6010B)	Flow Rate (L/min.)	Sample Volume (m^3)			
1	PE-TSP061520-B606UPWIND	775	06/15/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.8	658.157			
2	PE-TSP061520-B606DOWNWIND	776	06/15/20	7:08	G	A	1	8X10 EPM Whatman					X	1132.8	657.024			
3	APTIMPM061520-B606UPWIND	Q0398620	06/15/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.8	658.157			
4	APTIMPM061520-B606DOWNWIND	Q0398621	06/15/20	7:08	G	A	1	8X10 EPM Whatman				X		1132.80	657.024			
5	PE-TSP061620-B606UPWIND	777	06/16/20	6:58	G	A	1	8X10 EPM Whatman					X	1132.80	664.954			
6	PE-TSP061620-B606DOWNWIND	778	06/16/20	7:07	G	A	1	8X10 EPM Whatman					X	1132.80	664.954			
7	APTIMPM061620-B606UPWIND	Q039622	06/16/20	6:58	G	A	1	8X10 EPM Whatman				X		1132.80	664.954			
8	APTIMPM061620-B606DOWNWIND	Q0398623	06/16/20	7:07	G	A	1	8X10 EPM Whatman				X		1132.80	664.954			
	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: RAMIE KAWAMBO Date: 7.2.20 Time: 1800

Received By: Date: 7/3/20 Time: 1020

Relinquished By: Date: Time:

Received By: Date: 7/3/20 Time: 1020

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

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APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

Page 2 of 8

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 #: 1155718
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Project Manager: *Nels Johnson*

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
Edgar.Ruiz@aptim.com

Sampler's Name(s): EKK

	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 7300/6010B	Flow Rate (L/min.)	Sample Volume (m^3)			
9	PE-TSP061720-B606UPWIND	779	06/17/20	7:04	G	A	1	8X10 EPM Whatman					X	1132.8	653.626			
10	PE-TSP061720-B606DOWNWIND	780	06/17/20	7:11	G	A	1	8X10 EPM Whatman					X	1132.8	655.891			
11	APTIMPM061720-B606UPWIND	Q0398624	06/17/20	7:04	G	A	1	8X10 EPM Whatman				X		1132.8	653.626			
12	APTIMPM061720-B606DOWNWIND	Q0398626	06/17/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.8	655.891			
13	PE-TSP061820-B606UPWIND	781	06/18/20	7:05	G	A	1	8X10 EPM Whatman					X	1132.8	655.891			
14	PE-TSP061820-B606DOWNWIND	782	06/18/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.80	655.891			
15	APTIMPM061820-B606UPWIND	Q0398627	06/18/20	7:05	G	A	1	8X10 EPM Whatman				X		1132.80	655.891			
16	APTIMPM061820-B606DOWNWIND	Q0398642	06/18/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.80	655.891			
	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: EDDIE KAHOMBO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/3/20 Time: 1030

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

7/16/2020

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

Page 3 of 8

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 #: 1155718
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Project Manager: *Nels Johnson*

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
edgar.ruiz@aptim.com

Sampler's Name(s): EKK

	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 7300/6010B)	Flow Rate (L/min.)	Sample Volume (m^3)			
17	PE-TSP061920-B606UPWIND	783	06/19/20	6:55	G	A	1	8X10 EPM Whatman					X	1132.80	662.688			
18	PE-TSP061920-B606DOWNWIND	784	06/19/20	7:06	G	A	1	8X10 EPM Whatman					X	1132.80	662.688			
19	APTIMPM061920-B606UPWIND	Q0398629	06/19/20	6:55	G	A	1	8X10 EPM Whatman				X		1132.80	662.688			
20	APTIMPM061920-B606DOWNWIND	Q0398630	06/19/20	7:06	G	A	1	8X10 EPM Whatman				X		1132.80	662.688			
21	PE-TSP062020-B606UPWIND	785	06/20/20	6:58	G	A	1	8X10 EPM Whatman					X	1132.80	664.954			
22	PE-TSP062020-B606DOWNWIND	786	06/20/20	7:10	G	A	1	8X10 EPM Whatman					X	1132.80	662.688			
23	APTIMPM062020-B606UPWIND	Q0398631	06/20/20	6:58	G	A	1	8X10 EPM Whatman				X		1132.80	664.954			
24	APTIMPM062020-B606DOWNWIND	Q0398632	06/20/20	7:10	G	A	1	8X10 EPM Whatman				X		1132.80	662.688			
	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: EDDIE KAHOMBO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/3/20 Time: 1020

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

7/16/2020

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

Page 4 of 8

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

Project Manager: *Nels Johnson*

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
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 #: 1155718
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Sampler's Name(s): EKK

	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 7300/6010B)	Flow Rate (L/min.)	Sample Volume (m^3)			
25	PE-TSP062220-B606UPWIND	787	06/22/20	7:06	G	A	1	8X10 EPM Whatman					X	1132.80	651.36			
26	PE-TSP062220-B606DOWNWIND	788	06/22/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.80	655.891			
27	APTIMPM062220-B606UPWIND	Q0398633	06/22/20	7:06	G	A	1	8X10 EPM Whatman				X		1132.80	651.36			
28	APTIMPM062220-B606DOWNWIND	Q0398634	06/22/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.80	655.891			
29	PE-TSP062320-B606UPWIND	789	06/23/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.80	658.157			
30	PE-TSP062320-B606DOWNWIND	790	06/23/20	7:11	G	A	1	8X10 EPM Whatman					X	1132.80	658.157			
31	APTIMPM062320-B606UPWIND	Q0398635	06/23/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.80	658.157			
32	APTIMPM062320-B606DOWNWIND	Q0398636	06/23/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.80	658.157			
	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: EDDIE KAMOMBO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/3/20 Time: 1020

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

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7/16/2020

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

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

Project Manager: *Nels Johnson*

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 1155718
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
edgar.ruiz@aptim.com

Sampler's Name(s): EKK

	Sample ID Number	Lot 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									
33	PE-TSP062420-B606UPWIND	791	06/24/20	7:03	G	A	1	8X10 EPM Whatman					X	1132.80	659.29			
34	PE-TSP062420-B606DOWNWIND	792	06/24/20	7:11	G	A	1	8X10 EPM Whatman					X	1132.80	657.024			
35	APTIMPM062420-B606UPWIND	Q0398637	06/24/20	7:03	G	A	1	8X10 EPM Whatman				X		1132.80	659.29			
36	APTIMPM062420-B606DOWNWIND	Q0398638	06/24/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.80	657.02			
37	PE-TSP062520-B606UPWIND	793	06/25/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.80	660.42			
38	PE-TSP062520-B606DOWNWIND	794	06/25/20	7:08	G	A	1	8X10 EPM Whatman					X	1132.80	661.56			
39	APTIMPM062520-B606UPWIND	Q0398639	06/25/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.80	660.42			
40	APTIMPM062520-B606DOWNWIND	Q0398640	06/25/20	7:08	G	A	1	8X10 EPM Whatman				X		1132.80	661.56			
	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: EDDIE KAMOMBO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/2/20 Time: 1520

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

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

Page 6 of 8

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

Project Manager: *Nels Johnson*

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
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 #: 1155718
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

	Sample ID Number	Lot No.	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOSH 7300/6010B	Analyses Requested: Flow Rate (L/min.)	Sample Volume (m^3)			
41	PE-TSP062620-B606UPWIND	795	06/26/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.8	652.493			
42	PE-TSP062620-B606DOWNWIND	796	06/26/20	7:07	G	A	1	8X10 EPM Whatman					X	1132.8	660.422			
43	APTIMPM062620-B606UPWIND	Q0398641	06/26/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.8	652.493			
44	APTIMPM062620-B606DOWNWIND	Q0398642	06/26/20	7:07	G	A	1	8X10 EPM Whatman				X		1132.80	660.422			
45	PE-TSP062720-B606UPWIND	797	06/27/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.80	661.555			
46	PE-TSP062720-B606DOWNWIND	798	06/27/20	7:24	G	A	1	8X10 EPM Whatman					X	1132.80	646.829			
47	APTIMPM062720-B606UPWIND	Q0398653	06/27/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.80	661.555			
48	APTIMPM062720-B606DOWNWIND	Q0398654	06/27/20	7:24	G	A	1	8X10 EPM Whatman				X		1132.80	646.829			
	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: EDDIE KALOMBO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/3/20 Time: 1020

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

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7/16/2020

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

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

Project Manager: *Nels Johnson*

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 1155718
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
edgar.ruiz@aptim.com

Sampler's Name(s): ER

	Sample ID Number	Lot No.	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	Analyses Requested: PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOSH 7300/6010B)	Flow Rate (L/min.)	Sample Volume (m^3)			
49	PE-TSP062920-B606UPWIND	799	06/29/20	7:04	G	A	1	8X10 EPM Whatman					X	1132.8	646.829			
50	PE-TSP062920-B606DOWNWIND	800	06/29/20	7:11	G	A	1	8X10 EPM Whatman					X	1132.8	653.626			
51	APTIMPM062920-B606UPWIND	Q0398655	06/29/20	7:04	G	A	1	8X10 EPM Whatman				X		1132.8	646.829			
52	APTIMPM062920-B606DOWNWIND	Q0398656	06/29/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.8	653.626			
53	PE-TSP063020-B606UPWIND	801	06/30/20	7:30	G	A	1	8X10 EPM Whatman					X	1132.8	617.376			
54	PE-TSP063020-B606DOWNWIND	802	06/30/20	7:45	G	A	1	8X10 EPM Whatman					X	1132.80	615.11			
55	APTIMPM063020-B606UPWIND	Q0398657	06/30/20	7:30	G	A	1	8X10 EPM Whatman				X		1132.80	617.376			
56	APTIMPM063020-B606DOWNWIND	Q0398658	06/30/20	7:45	G	A	1	8X10 EPM Whatman				X		1132.80	615.11			
	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: EDDIE KAHOMOO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/3/20 Time: 1020

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

7/16/2020

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

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

Project Manager: *Nels Johnson*

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 1155718
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
edgar.ruiz@aptim.com

Sampler's Name(s): ER

	Sample ID Number	Lot No.	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	Analyses Requested: PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOSH 7300/6010B)	Flow Rate (L/min.)	Sample Volume (m^3)			
57	PE-TSP070120-B606UPWIND	804	07/01/20	7:25	G	A	1	8X10 EPM Whatman					X	1132.80	628.704			
58	PE-TSP070120-B606DOWNWIND	803	07/01/20	7:35	G	A	1	8X10 EPM Whatman					X	1132.80	628.704			
59	APTIMPM070120-B606UPWIND	Q0398660	07/01/20	7:35	G	A	1	8X10 EPM Whatman				X		1132.80	617.376			
60	APTIMPM070120-B606DOWNWIND	Q0398659	07/01/20	7:35	G	A	1	8X10 EPM Whatman				X		1132.80	628.704			
61	PE-TSP070220-B606UPWIND	805	07/02/20	7:10	G	A	1	8X10 EPM Whatman					X	1132.80	651.36			
62	PE-TSP070220-B606DOWNWIND	806	07/02/20	7:35	G	A	1	8X10 EPM Whatman					X	1132.80	634.368			
63	APTIMPM070220-B606UPWIND	Q0398661	07/02/20	7:10	G	A	1	8X10 EPM Whatman				X		1132.80	651.36			
64	APTIMPM070220-B606DOWNWIND	Q0398662	07/02/20	7:35	G	A	1	8X10 EPM Whatman				X		1132.80	634.368			
	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: EDDIE KAHOMBO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/2/20 Time: 1630

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

7/16/2020

32473

AIR MONITORING LOG

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

STATION COC# 014

SAMPLE NO. PE-TSP061520-B606UPWIND 6/15/2020 *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				
775	40.0	40.0	40.0	6/15/20 07:00	6/15/20 16:41	581	658.2	TSP	1132.80

SAMPLE NO. PE-TSP061520-B606DOWNWIND 6/15/2020 *Building 606 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				
776	40.0	40.0	40.0	6/15/20 07:08	6/15/20 16:48	580	657.0	TSP	1132.80

SAMPLE NO. APTIMPM061520-B606UPWIND 6/15/2020 *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				
Q0398620	40.0	40.0	40.0	6/15/20 07:00	6/15/20 16:41	581	658.2	PM-10	1132.80

SAMPLE NO. APTIMPM061520-B606DOWNWIND 6/15/2020 *Building 606 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				
Q0398621	40.0	40.0	40.0	6/15/20 07:08	6/15/20 16:48	580	657.0	PM-10	1132.80

SAMPLE NO. PE-TSP061620-B606UPWIND 6/16/2020 *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				
777	40.0	40.0	40.0	6/16/20 06:58	6/16/20 16:45	587	665.0	TSP	1132.80

SAMPLE NO. PE-TSP061620-B606DOWNWIND 6/16/2020 *Building 606 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				
778	40.0	40.0	40.0	6/16/20 07:07	6/16/20 16:54	587	665.0	TSP	1132.80

SAMPLE NO. APTIMPM061620-B606UPWIND 6/16/2020 *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				
Q039622	40.0	40.0	40.0	6/16/20 06:58	6/16/20 16:45	587	665.0	PM-10	1132.80

SAMPLE NO. APTIMPM061620-B606DOWNWIND 6/16/2020 *Building 606 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				
Q0398623	40.0	40.0	40.0	6/16/20 07:07	6/16/20 16:54	587	665.0	PM-10	1132.80

SAMPLE NO. PE-TSP061720-B606UPWIND 6/17/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
779	40.0	40.0	40.0	6/17/20 07:04	6/17/20 16:41	577	653.6	TSP	1132.80

SAMPLE NO. **PE-TSP061720-B606DOWNWIND** 6/17/2020 *Building 606 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				
780	40.0	40.0	40.0	6/17/20 07:11	6/17/20 16:50	579	655.9	TSP	1132.80

SAMPLE NO. **APTIMPM061720-B606UPWIND** 6/17/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398624	40.0	40.0	40.0	6/17/20 07:04	6/17/20 16:41	577	653.6	PM-10	1132.80

SAMPLE NO. **APTIMPM061720-B606DOWNWIND** 6/17/2020 *Building 606 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				
Q0398626	40.0	40.0	40.0	6/17/20 07:11	6/17/20 16:50	579	655.9	PM-10	1132.80

SAMPLE NO. **PE-TSP061820-B606UPWIND** 6/18/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
781	40.0	40.0	40.0	6/18/20 07:05	6/18/20 16:44	579	655.9	TSP	1132.80

SAMPLE NO. **PE-TSP061820-B606DOWNWIND** 6/18/2020 *Building 606 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				
782	40.0	40.0	40.0	6/18/20 07:15	6/18/20 16:54	579	655.9	TSP	1132.80

SAMPLE NO. **APTIMPM061820-B606UPWIND** 6/18/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398627	40.0	40.0	40.0	6/18/20 07:05	6/18/20 16:44	579	655.9	PM-10	1132.80

SAMPLE NO. **APTIMPM061820-B606DOWNWIND** 6/18/2020 *Building 606 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				
Q0398642	40.0	40.0	40.0	6/18/20 07:15	6/18/20 16:54	579	655.9	PM-10	1132.80

SAMPLE NO. **PE-TSP061920-B606UPWIND** 6/19/2020 *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				
783	40.0	40.0	40.0	6/19/20 06:55	6/19/20 16:40	585	662.7	TSP	1132.80

SAMPLE NO. **PE-TSP061920-B606DOWNWIND** 6/19/2020 *Building 606 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				
784	40.0	40.0	40.0	6/19/20 07:06	6/19/20 16:51	585	662.7	TSP	1132.80

SAMPLE NO. **APTIMPM061920-B606UPWIND** 6/19/2020 *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				
Q0398629	40.0	40.0	40.0	6/19/20 06:55	6/19/20 16:40	585	662.7	PM-10	1132.80

SAMPLE NO. **APTIMPM061920-B606DOWNWIND** 6/19/2020 *Building 606 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				
Q0398630	40.0	40.0	40.0	6/19/20 07:06	6/19/20 16:51	585	662.7	PM-10	1132.80

SAMPLE NO. **PE-TSP062020-B606UPWIND** 6/20/2020 *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				
785	40.0	40.0	40.0	6/20/20 06:58	6/20/20 16:45	587	665.0	TSP	1132.80

SAMPLE NO. **PE-TSP062020-B606DOWNWIND** 6/20/2020 *Building 606 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				
786	40.0	40.0	40.0	6/20/20 07:10	6/20/20 16:55	585	662.7	TSP	1132.80

SAMPLE NO. **APTIMPM062020-B606UPWIND** 6/20/2020 *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				
Q0398631	40.0	40.0	40.0	6/20/20 06:58	6/20/20 16:45	587	665.0	PM-10	1132.80

SAMPLE NO. **APTIMPM062020-B606DOWNWIND** 6/20/2020 *Building 606 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				
Q0398632	40.0	40.0	40.0	6/20/20 07:10	6/20/20 16:55	585	662.7	PM-10	1132.80

SAMPLE NO. **PE-TSP062220-B606UPWIND** 6/22/2020 *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				
787	40.0	40.0	40.0	6/22/20 07:06	6/22/20 16:41	575	651.4	TSP	1132.80

SAMPLE NO. **PE-TSP062220-B606DOWNWIND** 6/22/2020 *Building 606 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				
788	40.0	40.0	40.0	6/22/20 07:15	6/22/20 16:54	579	655.9	TSP	1132.80

SAMPLE NO. **APTIMPM062220-B606UPWIND** 6/22/2020 *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				
Q0398633	40.0	40.0	40.0	6/22/20 07:06	6/22/20 16:41	575	651.4	PM-10	1132.80

SAMPLE NO. **APTIMPM062220-B606DOWNWIND** 6/22/2020 *Building 606 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				
Q0398634	40.0	40.0	40.0	6/22/20 07:15	6/22/20 16:54	579	655.9	PM-10	1132.80

SAMPLE NO. **PE-TSP062320-B606UPWIND** 6/23/2020 *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				
789	40.0	40.0	40.0	6/23/20 07:00	6/23/20 16:41	581	658.2	TSP	1132.80

SAMPLE NO. **PE-TSP062320-B606DOWNWIND** 6/23/2020 *Building 606 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				
790	40.0	40.0	40.0	6/23/20 07:11	6/23/20 16:52	581	658.2	TSP	1132.80

SAMPLE NO. **APTIMPM062320-B606UPWIND** 6/23/2020 *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				
Q0398635	40.0	40.0	40.0	6/23/20 07:00	6/23/20 16:41	581	658.2	PM-10	1132.80

SAMPLE NO. **APTIMPM062320-B606DOWNWIND** 6/23/2020 *Building 606 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				
Q0398636	40.0	40.0	40.0	6/23/20 07:11	6/23/20 16:52	581	658.2	PM-10	1132.80

SAMPLE NO. **PE-TSP062420-B606UPWIND** 6/24/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
791	40.0	40.0	40.0	6/24/20 07:03	6/24/20 16:45	582	659.3	TSP	1132.80

SAMPLE NO. **PE-TSP062420-B606DOWNWIND** 6/24/2020 *Building 606 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				
792	40.0	40.0	40.0	6/24/20 07:11	6/24/20 16:51	580	657.0	TSP	1132.80

SAMPLE NO. **APTIMPM062420-B606UPWIND** 6/24/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398637	40.0	40.0	40.0	6/24/20 07:03	6/24/20 16:45	582	659.3	PM-10	1132.80

SAMPLE NO. **APTIMPM062420-B606DOWNWIND** 6/24/2020 *Building 606 Downwind*

32473

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				
Q0398638	40.0	40.0	40.0	6/24/20 07:11	6/24/20 16:51	580	657.0	PM-10	1132.80

SAMPLE NO. **PE-TSP062520-B606UPWIND** 6/25/2020 *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				
793	40.0	40.0	40.0	6/25/20 07:00	6/25/20 16:43	583	660.4	TSP	1132.80

SAMPLE NO. **PE-TSP062520-B606DOWNWIND** 6/25/2020 *Building 606 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				
794	40.0	40.0	40.0	6/25/20 07:08	6/25/20 16:52	584	661.6	TSP	1132.80

SAMPLE NO. **APTIMPM062520-B606UPWIND** 6/25/2020 *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				
Q0398639	40.0	40.0	40.0	6/25/20 07:00	6/25/20 16:43	583	660.4	PM-10	1132.80

SAMPLE NO. **APTIMPM062520-B606DOWNWIND** 6/25/2020 *Building 606 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				
Q0398640	40.0	40.0	40.0	6/25/20 07:08	6/25/20 16:52	584	661.6	PM-10	1132.80

32473

AIR MONITORING LOG

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

STATION COC# 014

SAMPLE NO. PE-TSP062620-B606UPWIND 6/26/2020 *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				
795	40.0	40.0	40.0	6/26/20 07:00	6/26/20 16:36	576	652.5	TSP	1132.80

SAMPLE NO. PE-TSP062620-B606DOWNWIND 6/26/2020 *Building 606 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				
796	40.0	40.0	40.0	6/26/20 07:07	6/26/20 16:50	583	660.4	TSP	1132.80

SAMPLE NO. APTIMPM062620-B606UPWIND 6/26/2020 *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				
Q0398641	40.0	40.0	40.0	6/26/20 07:00	6/26/20 16:36	576	652.5	PM-10	1132.80

SAMPLE NO. APTIMPM062620-B606DOWNWIND 6/26/2020 *Building 606 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				
Q0398642	40.0	40.0	40.0	6/26/20 07:07	6/26/20 16:50	583	660.4	PM-10	1132.80

SAMPLE NO. PE-TSP062720-B606UPWIND 6/27/2020 *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				
797	40.0	40.0	40.0	6/27/20 07:00	6/27/20 16:44	584	661.6	TSP	1132.80

SAMPLE NO. PE-TSP062720-B606DOWNWIND 6/27/2020 *Building 606 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				
798	40.0	40.0	40.0	6/27/20 07:24	6/27/20 16:55	571	646.8	TSP	1132.80

SAMPLE NO. APTIMPM062720-B606UPWIND 6/27/2020 *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				
Q0398653	40.0	40.0	40.0	6/27/20 07:00	6/27/20 16:44	584	661.6	PM-10	1132.80

SAMPLE NO. APTIMPM062720-B606DOWNWIND 6/27/2020 *Building 606 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				
Q0398654	40.0	40.0	40.0	6/27/20 07:24	6/27/20 16:55	571	646.8	PM-10	1132.80

32473

SAMPLE NO. **PE-TSP062920-B606UPWIND** 6/29/2020 *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				
799	40.0	40.0	40.0	6/29/20 07:04	6/29/20 16:35	571	646.8	TSP	1132.80

SAMPLE NO. **PE-TSP062920-B606DOWNWIND** 6/29/2020 *Building 606 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				
800	40.0	40.0	40.0	6/29/20 07:11	6/29/20 16:48	577	653.6	TSP	1132.80

SAMPLE NO. **APTIMPM062920-B606UPWIND** 6/29/2020 *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				
Q0398655	40.0	40.0	40.0	6/29/20 07:04	6/29/20 16:35	571	646.8	PM-10	1132.80

SAMPLE NO. **APTIMPM062920-B606DOWNWIND** 6/29/2020 *Building 606 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				
Q0398656	40.0	40.0	40.0	6/29/20 07:11	6/29/20 16:48	577	653.6	PM-10	1132.80

SAMPLE NO. **PE-TSP063020-B606UPWIND** 6/30/2020 *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				
801	40.0	40.0	40.0	6/30/20 07:30	6/30/20 16:35	545	617.4	TSP	1132.80

SAMPLE NO. **PE-TSP063020-B606DOWNWIND** 6/30/2020 *Building 606 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				
802	40.0	40.0	40.0	6/30/20 07:45	6/30/20 16:48	543	615.1	TSP	1132.80

SAMPLE NO. **APTIMPM063020-B606UPWIND** 6/30/2020 *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				
Q0398657	40.0	40.0	40.0	6/30/20 07:30	6/30/20 16:35	545	617.4	PM-10	1132.80

SAMPLE NO. **APTIMPM063020-B606DOWNWIND** 6/30/2020 *Building 606 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				
Q0398658	40.0	40.0	40.0	6/30/20 07:45	6/30/20 16:48	543	615.1	PM-10	1132.80

SAMPLE NO. **PE-TSP070120-B606UPWIND** 7/1/2020 *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				

LOT No.	FLOW RATE (CFM) START	FLOW RATE (CFM) STOP	FLOW RATE (CFM) AVERAGE	RUNNING TIME (HRS) START	RUNNING TIME (HRS) STOP	TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
804	40.0	40.0	40.0	7/01/20 07:25	7/01/20 16:40	555	628.7	TSP	1132.80

SAMPLE NO. **PE-TSP070120-B606DOWNWIND** 7/1/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM) START	FLOW RATE (CFM) STOP	FLOW RATE (CFM) AVERAGE	RUNNING TIME (HRS) START	RUNNING TIME (HRS) STOP	TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
803	40.0	40.0	40.0	7/01/20 07:35	7/01/20 16:50	555	628.7	TSP	1132.80

SAMPLE NO. **APTIMPM070120-B606UPWIND** 7/1/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM) START	FLOW RATE (CFM) STOP	FLOW RATE (CFM) AVERAGE	RUNNING TIME (HRS) START	RUNNING TIME (HRS) STOP	TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
Q0398660	40.0	40.0	40.0	7/01/20 07:35	7/01/20 16:40	545	617.4	PM-10	1132.80

SAMPLE NO. **APTIMPM070120-B606DOWNWIND** 7/1/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM) START	FLOW RATE (CFM) STOP	FLOW RATE (CFM) AVERAGE	RUNNING TIME (HRS) START	RUNNING TIME (HRS) STOP	TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
Q0398659	40.0	40.0	40.0	7/01/20 07:35	7/01/20 16:50	555	628.7	PM-10	1132.80

SAMPLE NO. **PE-TSP070220-B606UPWIND** 7/2/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM) START	FLOW RATE (CFM) STOP	FLOW RATE (CFM) AVERAGE	RUNNING TIME (HRS) START	RUNNING TIME (HRS) STOP	TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
805	40.0	40.0	40.0	7/02/20 07:10	7/02/20 16:45	575	651.4	TSP	1132.80

SAMPLE NO. **PE-TSP070220-B606DOWNWIND** 7/2/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM) START	FLOW RATE (CFM) STOP	FLOW RATE (CFM) AVERAGE	RUNNING TIME (HRS) START	RUNNING TIME (HRS) STOP	TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
806	40.0	40.0	40.0	7/02/20 07:35	7/02/20 16:55	560	634.4	TSP	1132.80

SAMPLE NO. **APTIMPM070220-B606UPWIND** 7/2/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM) START	FLOW RATE (CFM) STOP	FLOW RATE (CFM) AVERAGE	RUNNING TIME (HRS) START	RUNNING TIME (HRS) STOP	TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
Q0398661	40.0	40.0	40.0	7/02/20 07:10	7/02/20 16:45	575	651.4	PM-10	1132.80

SAMPLE NO. **APTIMPM070220-B606DOWNWIND** 7/2/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM) START	FLOW RATE (CFM) STOP	FLOW RATE (CFM) AVERAGE	RUNNING TIME (HRS) START	RUNNING TIME (HRS) STOP	TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
Q0398662	40.0	40.0	40.0	7/02/20 07:35	7/02/20 16:55	560	634.4	PM-10	1132.80

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-32473-1

Login Number: 32473
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	