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

AIR MONITORING SUMMARY REPORT FOR PARCEL E REMEDIAL ACTION PHASE 2

HUNTERS POINT NAVAL SHIPYARD

SAN FRANCISCO, CALIFORNIA

August 1st, 2023 through August 31st, 2023

Approved for public release; distribution is unlimited

DCN: GESL-0005-4332-0131

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Prepared for:

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Acronyms and Abbreviations

AMSR ..... *Air Monitoring Summary Report*
ASRC..... *Arctic Slope Regional Corporation*
Cal/OSHA ..... *California Occupational Safety and Health Administration*
Cfm ..... *cubic feet per minute*
CFR ..... *Code of Federal Regulations*
CTO ..... *Contract Task Order*
DMCP ..... *Dust Monitoring and Control Plan*
DTSC ..... *State of California Department of Toxic Substances Control*
EPA ..... *United States Environmental Protection Agency*
fibers/cm^3 ..... *fibers per cubic centimeter*
Gilbane ..... *Gilbane Federal*
HPNS ..... *Hunters Point Naval Shipyard*
L/min ..... *liters per minute*
mg/m^3 ..... *milligrams per cubic meter*
Navy ..... *U.S. Department of the Navy*
NIOSH ..... *National Institute for Occupational Safety and Health*
PEL ..... *permissible exposure limit*
PM10 ..... *particulate matter less than 10 microns in diameter*
RAWP ..... *Remedial Action Work Plan*
TSP ..... *total suspended particulates*
TWA ..... *time-weighted average*
$\mu g/m^3$ ..... *micrograms per cubic meter*

1.0 Introduction

This Air Monitoring Summary Report (AMSR) was prepared by GES as requested by the United States Department of the Navy (Navy) under Radiological Environmental Multiple Award Contract N62473-17-D-0005, Contract Task Order (CTO) N6247317F4332. GES is performing air monitoring at Hunters Point Naval Shipyard (HPNS) in accordance with the Final Dust Monitoring and Control Plan (DMCP), included as Appendix E to *Final Remedial Action Work Plan, Parcel E Remedial Action Phase 2, Hunters Point Naval Shipyard, San Francisco, California* (RAWP; Gilbane, 2019a). The Dust Monitoring and Control Plan (DMCP) describes the procedures that minimize dust during work activities and requires air monitoring to ensure these procedures are effective. The DMCP 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 monitoring samples were collected.
- What test methods were used to analyze air monitoring samples.
- How air monitoring data were evaluated.

This AMSR summarizes the air monitoring activities conducted by GES at HPNS Parcel E from August 1st, 2023 through August 31st, 2023 and compares the results with the established action levels presented in the DMCP (Appendix E of the RAWP [Gilbane, 2019a]).

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2.0 Monitoring Site Locations

Air monitoring stations were deployed at one upwind and one downwind location from the work area whenever active soil handling operations were in progress. Based on past meteorological data, the prevalent wind direction at HPNS was from the west or west-southwest. The locations of Parcel E air monitoring stations are presented on **Figure 2-1**.

Air monitoring was performed to estimate and assess the impact of field activities. The locations of air monitoring stations were determined based on the prevailing wind direction and were modified as needed for accessibility and worker safety considerations. Wind direction was monitored daily using a windsock and confirmed with the prevalent wind direction recorded for the APTIM HPNS - KCASANFR1504 published at Weather Underground (www.wunderground.com). If the APTIM station did not have available data, the Bayview Manor - KCASANFR1775 or Bayview - KCASANFR1508.

Upwind/downwind station designations were assigned based on the prevalent wind direction. Atmospheric parameters were checked daily at www.wunderground.com (see **Attachment 1**). Monitoring stations remained stationary while sampling was conducted. Each monitoring station included four different monitoring systems:

1. Asbestos
2. Particulate matter less than 10 microns in diameter (PM10)
3. Total suspended particulates (TSP) and Metals (Copper, Lead, and Manganese)
4. Radiological air samplers

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3.0 Analytical Methods

3.1 Asbestos

Air samples were sampled and analyzed in accordance with National Institute for Occupational Safety and Health (NIOSH) Method 7400, from the NIOSH Manual of Analytical Methods (NIOSH, 1994). Method 7400 requires that samples be collected on three-piece cellulose ester filters fitted with conductive cowlings at a sampling rate of between 0.5 liters per minute (L/min) and 16 L/min. Each sample was collected over a period of less than 24 hours. Asbestos results were reviewed for anomalies and compliance with the action levels listed below.

3.2 PM10

Filter-based PM10 data are collected to ensure the protection of public health and safety during construction operations. Filter-based PM10 data are generated by sampling with calibrated air monitoring equipment that are operated continuously over a period of time (usually 8 or 24 hours) in accordance with the U.S. Environmental Protection Agency (EPA) reference sampling method for PM10 as described in Title 40 Code of Federal Regulations (CFR), Part 50, Subpart J. During the sampling, measurements are taken to precisely calculate the volume of air that has passed through the filter media sample. The period sampled is dependent on the duration of the work activity. The sample is then shipped to a certified analytical laboratory where the concentration is gravimetrically determined. The sample results are reviewed for field and laboratory anomalies to provide confidence in the data and compared to air quality criteria to ensure compliance with the action levels listed below. In this way the precise amount of PM10 present in each cubic meter of air is determined.

3.3 TSP, Copper, Lead, and Manganese

TSP samples were collected with a high-volume (39 to 60 cubic feet per minute [cfm]) air sampler in accordance with EPA's reference sampling method for TSP, described in 40 CFR 50, Subpart B. Each sample was collected on a filter over an approximately 8 to 24-hour period (depending on the duration of the work activity). The filter was then weighed to determine the amount of TSP collected. The resulting concentration was compared to the HPNS Basewide level listed below to minimize permissible dust releases from the site.

Once the TSP concentration was gravimetrically determined, the filter was analyzed for copper, lead, and manganese, in accordance with EPA Method 6010B (equivalent to IO-3.4 in the Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air [EPA, 1999b])

3.4 Radionuclides of Concern

Radiological air samples were collected on filter media with a LV-1 low-volume air sampler. The air filter concentration is counted onsite following a decay period and are compared with public air concentration limits published in 10 CFR Part 20. Radiological air sampling methods and procedures are detailed in the Gilbane Radiological Procedure PR-RP-150 *Radiological Survey and Sampling* (Gilbane, 2019b).

The radiological air sample concentration is counted on a Low Background Protean WPC-9950 and analyzed for gross alpha and beta activity. The calculated airborne concentration in microcuries is then compared to the effluent concentration limit specified in Table 2 of Appendix B to 10 CFR 20. The effluent concentration of a given radionuclide in air which, if inhaled continuously over the course of a year, results in an exposure equal to the annual regulatory limit specified in 10 CFR 20.1302. The threshold for radiological effluent concentration in air samples is 10 percent of the effluent concentration, which ensures work practices are evaluated and modified as necessary to ensure the limit is not reached.

The equipment specifications and sampling procedures have complied with the specifications provided in the regulations for the sampler, filter media, accuracy, calibration, and quality assurance.

4.0 Air Monitoring Data Interpretation and Action Levels

To facilitate the comparison to project action levels, the delta between the upwind and downwind PM10 and TSP analytical results was calculated for detected values. Calculated negative values indicating that the upwind concentration was greater than the downwind concentration and non-detected values where no delta was calculated, are interpreted as acceptable.

The resulting deltas for PM10 and TSP and analytical data from air monitoring metals and radiological samples were compared with the threshold criteria listed in **Table 4-1** reproduced from Table 1 of the approved DMCP (Appendix E of the RAWP [Gilbane, 2019a]. The PM10 delta was additionally compared to the criterion taken from the *Technical Memorandum: Draft Dust Action Levels for Parcel E, Hunters Point Shipyard, San Francisco, California* (Department of Toxic Substances Control [DTSC] 2017) of 50 micrograms per cubic meter (ug/m^3).

Table 4-1: Air Monitoring Threshold Criteria

Test Parameter	Threshold Criteria	Threshold Criteria Reference
Asbestos	0.1 fibers/cm^3	Cal/OSHA PEL
PM10[a]	5,000 ug/m^3	Cal/OSHA PEL
TSP	0.5 mg/m^3	Basewide HPNS Level selected to minimize overall permissible dust release from sites
Copper	1.0 mg/m^3	Cal/OSHA PEL
Lead	0.050 mg/m^3	Cal/OSHA PEL
Manganese	0.200 mg/m^3	Cal/OSHA PEL
Radiological	10% of Effluent Concentration Values	Occupational and public air concentration limits for ROCs are published in 10 Code of Federal Regulations Part 20, Appendix B.

Notes:

[a] = The Cal/OSHA PEL for particulates not otherwise regulated (respiratory) is used for PM10 comparison.

ug/m^3 = micrograms per cubic meter

Cal/OSHA = California Division of Occupational Safety and Health Administration

fibers/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 less than 10 microns in diameter

ROC = radionuclide of concern

TSP = total suspended particulates

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5.0 Air Monitoring Results

Weather information (including ambient pressure and temperature data) is presented in the table included as **Attachment 1**. Meteorological data for Stations 1 and 2 were sourced from the Weather Underground (wunderground.com) station APTIM HPNS - KCASANFR1504. If the APTIM station did not have available data, the Bayview Manor - KCASANFR1775 or Bayview- KCASANFR1508 was used.

Air Monitoring Data was collected from Station 1 in Parcel E (MSE01) and Station 2 in Parcel D-1 (MSE02) from August 1st, 2023, through August 31st, 2023, during which GES was turning material to assist in drying, grading, and maintaining radiological screening yard pads. Samples were not collected during periods of site inactivity, rain events, and/or while site work was limited to non-earth moving tasks.

Construction and remediation activities conducted from August 1st, 2023, through August 31st, 2023, did not result in the exceedance of the established threshold criteria, as described in detail below.

Asbestos results from August 1st, 2023, through August 31st, 2023, did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 2**.

PM10 results from August 1st, 2023, through August 31st, 2023, did not exceed the threshold criteria presented in **Table 4-1.** The results are presented as **Attachment 3**

TSP, copper, lead, and manganese, results from August 1st, 2023, through August 31st, 2023, did not exceed the threshold criteria presented in **Table 4-1**. The results are presented in **Attachment 4** and **Attachment 5**.

Radiological air sampling results from August 1st, 2023, through August 31st, 2023, did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 6**.

Analytical laboratory reports are included as **Attachment 7** and were subjected to cursory review by the Project Chemist. No data quality issues were noted. The data should be considered usable for their intended purposes.

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6.0 References

Department of Toxic Substances Control (DTSC), 2017. Draft Technical Memorandum: Dust Action Levels for Parcel E, Hunters Point. May.

National Institute for Occupational Safety and Health, (NIOSH), 1994. Manual of Analytical Methods.

United States Environmental Protection Agency (EPA), 1999a. Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Ambient Air Specific Methods.

EPA, 1999b. Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air.

Gilbane Federal, 2019a. Final Remedial Action Work Plan, Parcel E Remedial Action, Phase 2, Hunters Point Naval Shipyard, San Francisco, California. October

Gilbane Federal, 2019b. Radiological Procedure PR-RP-150 *Radiological Survey and Sampling, Version 01,* October 1.

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FIGURES

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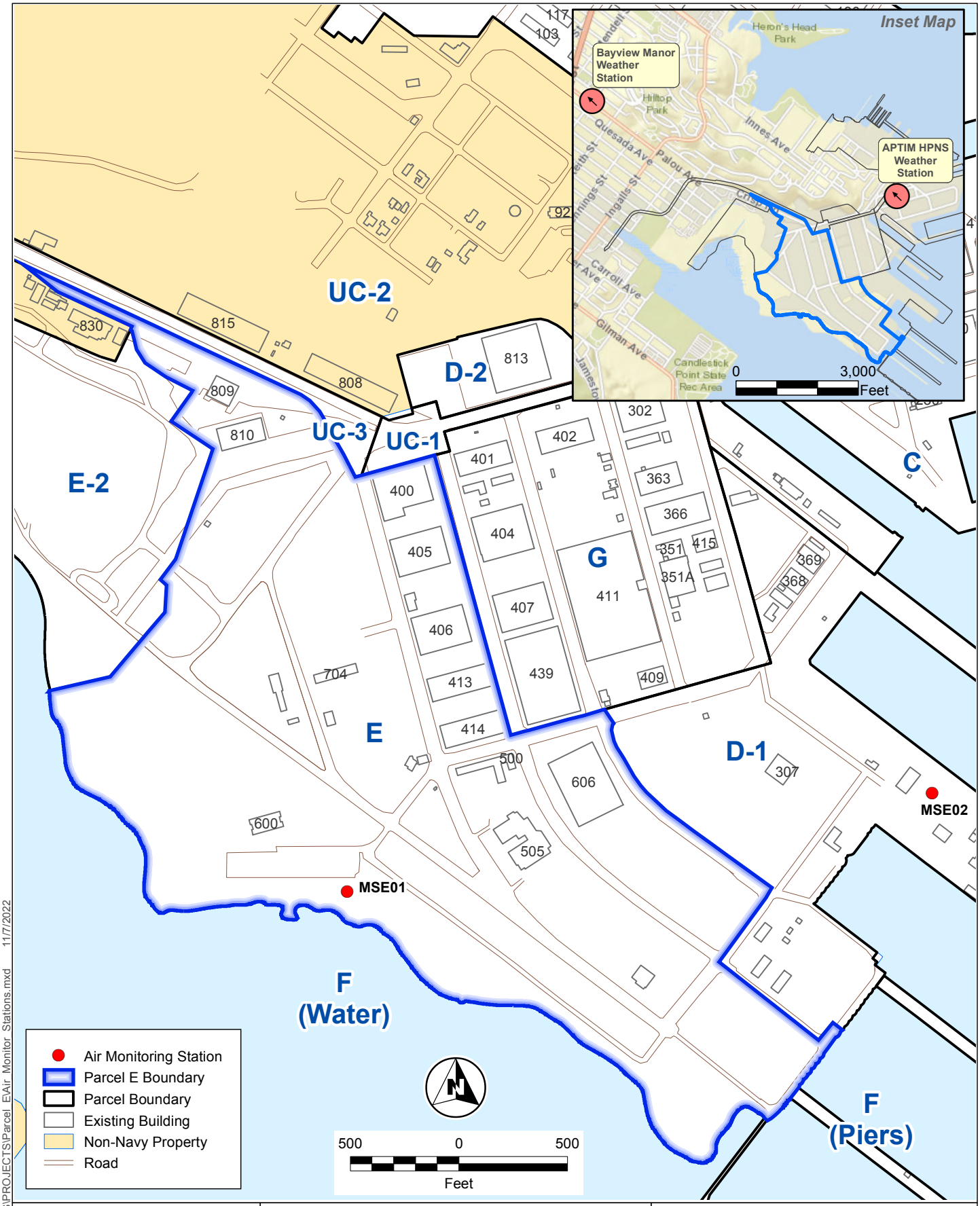

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Gilbane

Parcel E
Hunters Point Naval Shipyard
San Francisco, California

Figure 2-1
Air Monitoring Stations

ATTACHMENT 1

AMBIENT PRESSURE, TEMPERATURE, AND PREVALENT WIND DIRECTION MONITORING RESULTS

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Attachment 1: Ambient Pressure, Temperature, and Prevalent Wind Direction Monitoring Results

Start Date	Ambient Pressure (in Hg)	Ambient Temperature (°F)	Prevalent Wind Direction
8/01/2023[1]	30.11	58.97	WSW
8/02/2023[1]	30.13	58.09	WSW
8/03/2023[1]	30.18	59.03	WSW
8/07/2023[2]	29.96	55.63	W
8/08/2023[2]	29.97	61.40	W
8/09/2023[2]	29.93	60.77	W
8/10/2023[2]	29.94	63.69	W
8/14/2023[1]	30.02	59.44	WSW
8/15/2023[1]	30.04	63.38	WSW
8/16/2023[1]	29.98	62.65	WSW
8/17/2023[1]	29.94	65.64	WSW
8/21/2023[1]	30.04	68.32	SSW
8/22/2023[1]	30.05	66.95	WSW
8/23/2023[1]	29.95	72.67	W
8/24/2023[1]	29.98	70.15	WSW
8/28/2023[1]	30.06	62.43	WSW
8/29/2023[1]	30.03	66.77	WSW
8/30/2023[1]	29.89	69.60	WSW
8/31/2023[1]	29.85	64.57	SW

Notes:

[1]Data collected using wunderground.com from APTIM HPNS Station - KCASANFR1504

[2]Data collected using wunderground.com from Bayview - KCASANFR1508

°F = degree Fareheit

in Hg = inches of mercury

E = East

N = North

S = South

W = West

ATTACHMENT 2
ASBESTOS MONITORING RESULTS

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Attachment 2: Asbestos Monitoring Results

Sample, Date and Station Information			Sampler Run Information		Asbestos Fibers		
Sample ID	Sample Start Date[1]	Monitoring Station	Duration of Run (min)	Total Air Volume Monitored (L)	Asbestos (fibers)	Conc Asbestos (fibers/cm^3)	Exceedance (Yes/No)
MSE01-080123	08/01/23	1	548	1096	5.5	0.002	No
MSE02-080123	08/01/23	2	547	1094	11.0	0.005	No
MSE01-080223	08/02/23	1	549	1098	11.5	0.005	No
MSE02-080223	08/02/23	2	548	1096	9.0	0.004	No
MSE01-080323	08/03/23	1	530	1060	9.0	0.004	No
MSE02-080323	08/03/23	2	507	1014	6.5	0.003	No
MSE01-080723	08/07/23	1	561	1122	17.5	0.008	No
MSE02-080723	08/07/23	2	557	1114	13.5	0.006	No
MSE01-080823	08/08/23	1	559	1118	10.0	0.004	No
MSE02-080823	08/08/23	2	556	1112	23.5	0.010	No
MSE01-080923	08/09/23	1	548	1096	9.5	0.004	No
MSE02-080923	08/09/23	2	545	1090	11.5	0.005	No
MSE01-081023	08/10/23	1	436	872	15.5	0.009	No
MSE02-081023	08/10/23	2	431	862	9.0	0.005	No
MSE01-081423	08/14/23	1	527	1054	20.0	0.009	No
MSE02-081423	08/14/23	2	527	1054	9.0	0.004	No
MSE01-081523	08/15/23	1	545	1090	5.5	0.002	No
MSE02-081523	08/15/23	2	537	1074	7.0	0.003	No
MSE01-081623	08/16/23	1	542	1084	5.5	0.002	No
MSE02-081623	08/16/23	2	542	1084	13.5	0.006	No
MSE01-081723	08/17/23	1	497	994	8.5	0.004	No
MSE02-081723	08/17/23	2	497	994	7.0	0.003	No
MSE01-082123	08/21/23	1	535	1070	13.0	0.006	No
MSE02-082123	08/21/23	2	526	1052	4.0	< 0.003	No
MSE01-082223	08/22/23	1	546	1092	1.0	< 0.002	No
MSE01-082223	08/22/23	2	544	1088	7.0	0.003	No
MSE02-082323	08/23/23	1	534	1068	4.0	< 0.003	No
MSE01-082323	08/23/23	2	531	1062	4.5	< 0.003	No
MSE02-082423	08/24/23	1	443	886	6.0	0.003	No
MSE01-082423	08/24/23	2	451	902	4.0	< 0.003	No
MSE01-082823	08/28/23	1	531	1062	9.0	0.004	No
MSE02-082823	08/28/23	2	534	1068	7.0	0.003	No
MSE01-082923	08/29/23	1	534	1068	8.5	0.004	No
MSE02-082923	08/29/23	2	538	1076	6.0	0.003	No
MSE01-083023	08/30/23	1	538	1076	13.5	0.006	No
MSE02-083023	08/30/23	2	545	1090	18.5	0.008	No
MSE01-083123	08/31/23	1	434	868	5.0	< 0.003	No
MSE02-083123	08/31/23	2	438	876	6.0	0.003	No

Notes:

[1]Sample "start" date indicates the date upon which sample collection began.

Samples analyzed by A&B Labs

Sample locations are shown on Figure 2-1

l/min = liters per minute

L = liter

min = minutes

fibers/cm^3 = fibers per cubic centimeter

< = below detection limit

ATTACHMENT 3

PARTICULATE MATTER, SMALLER THAN TEN MICRONS (PM10) MONITORING RESULTS

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Attachment 3: Particulate Matter, Smaller than Ten Microns (PM10) Monitoring Results

Sample, Date and Station Information			Sampler Run Information	PM10						
Sample ID	Monitoring Station	Sample End Date[1]	Total Air Volume Monitored (m^3)	Concen-tration in Air (mg/m^3)	Delta between Downwind and Upwind (mg/m^3)	Delta between Downwind and Upwind (ug/m^3)	Cal/OSHA PEL (ug/m^3)	Exceedance (Yes/No)	HERO Action Level[2] (ug/m^3)	Exceedance (Yes/No)
PM041223-01	1	08/01/23	1669.69	0.02796926						
PM041223-03	2	08/01/23	1735.60	0.019705	-0.0083	-8.3	5,000	No	50	No
PM041223-05	1	08/02/23	1756.10	0.01343887						
PM041223-07	2	08/02/23	1726.62	0.00723958	-0.0062	-6.2	5,000	No	50	No
PM041223-09	1	08/03/23	1767.72	0.01844183						
PM041223-11	2	08/03/23	1742.59	0.0064846	-0.0120	-12.0	5,000	No	50	No
PM041223-13	1	08/03/23[1]	606.53	0.01813595						
PM041223-15	2	08/03/23[1]	602.79	0.00398149	-0.0142	-14.2	5,000	No	50	No
PM041223-35	1	08/08/23	1665.79	0.0306161						
PM041223-37	2	08/08/23	1730.02	0.01739864	-0.0132	-13.2	5,000	No	50	No
PM041623-01	1	08/09/23	1685.06	0.0138274						
PM041623-03	2	08/09/23	1753.64	0.00513218	-0.0087	-8.7	5,000	No	50	No
PM041623-05	1	08/10/23	1672.03	0.01860014						
PM041623-07	2	08/10/23	1734.91	0.00582163	-0.0128	-12.8	5,000	No	50	No
PM041623-09	1	08/10/23[1]	488.84	0.01656984						
PM041623-11	2	08/10/23[1]	515.16	0.00368817	-0.0129	-12.9	5,000	No	50	No
PM012323-13	1	08/15/23	1710.05	0.03099325						
PM032823-02	2	08/15/23	1722.59	0.00847561	-0.0225	-22.5	5,000	No	50	No
PM122022-03	1	08/16/23	1644.76	0.0214621						
PM042123-84	2	08/16/23	1745.75	0.00796219	-0.0135	-13.5	5,000	No	50	No
PM032823-04	1	08/17/23	1720.44	0.01098556						
PM032823-06	2	08/17/23	1780.90	0.01089337	-0.0001	-0.1	5,000	No	50	No
PM032823-08	1	08/17/23[1]	576.64	0.02323807						
PM032823-10	2	08/17/23[1]	605.12	0.01454257	-0.0087	-8.7	5,000	No	50	No
PM032823-12	1	08/22/23	1798.01	0.02491644						
PM032823-14	2	08/22/23	1763.50	0.01893961	-0.0060	-6.0	5,000	No	50	No
PM042123-86	1	08/23/23	1794.48	0.02100887						
PM042123-88	2	08/23/23	1760.62	0.01675546	-0.0043	-4.3	5,000	No	50	No
PM042123-90	1	08/24/23	1790.89	0.02674648						
PM042123-92	2	08/24/23	1760.37	0.0227793	-0.0040	-4.0	5,000	No	50	No
PM042123-94	1	08/24/23[1]	545.18	0.03008181						
PM042123-96	2	08/24/23[1]	544.70	0.02478428	-0.0053	-5.3	5,000	No	50	No
PM051123-53	1	08/29/23	1684.61	0.03686313						
PM051123-55	2	08/29/23	1746.08	0.03023916	-0.0066	-6.6	5,000	No	50	No
PM051123-57	1	08/30/23	1681.49	0.06184991						
PM051123-59	2	08/30/23	1742.01	0.02812843	-0.0337	-33.7	5,000	No	50	No
PM051123-61	1	08/31/23	1696.62	0.05599368						
PM051123-63	2	08/31/23	1760.79	0.04111791	-0.0149	-14.9	5,000	No	50	No
PM051123-65	1	08/31/23[1]	358.45	0.04798438						
PM051123-67	2	08/31/23[1]	517.71	0.02974638	-0.0182	-18.2	5,000	No	50	No

Notes:

[1]Air sample was taken down during the afternoon after field activities ceased.

[2]PM10 data is additionally compared to the recommended dust action level of 50 ug/m3 for total PM10 in accordance with the DTSC Human and Ecological Risk Office (HERO) Parcel E Memorandum dated April 29, 2019 (DTSC, 2019) for informational purposes only.

[4]Prevalent wind direction counter to normal conditions. Usual upwind and downwind stations reversed for this calculation.

Samples analyzed by Eurofins Analytics

Sample locations are shown on Figure 2-1

min = minutes

Cal/OSHA = California Division of Occupational Safety and Health

HERO = Human and Ecological Risk Office

J = estimated concentration. See data review report for details.

m^3 = cubic meters

mg/m^3 = milligrams per cubic meter

PEL = permissible exposure limit

PM10 = particulate matter smaller than 10 microns in diameter

ug/m^3 = micrograms per cubic meter

ATTACHMENT 4

TOTAL SUSPENDED PARTICULATES MONITORING RESULTS

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Attachment 4: Total Suspended Particulates Monitoring Results

Sample, Date and Station Information			Sampler Run Information	Total Suspended Particulates			
Sample ID	Monitoring Station	Sample End Date[1]	Total Air Volume Monitored (m^3)	Concentration in Air (mg/m^3)	Delta between Downwind and Upwind (mg/m^3)	Basewide HPNS Level (mg/m^3)	Exceedance (Yes/No)
TSP041223-02	1	08/01/23	1765.16	0.053			
TSP041223-04	2	08/01/23	1787.10	0.0394	-0.0136	0.5	No
TSP041223-06	1	08/02/23	1759.28	0.0317			
TSP041223-08	2	08/02/23	1718.79	0.0198	-0.0119	0.5	No
TSP041223-10	1	08/03/23	1769.91	0.0501			
TSP041223-12	2	08/03/23	1739.01	0.0171	-0.0330	0.5	No
TSP041223-14	1	08/03/23[1]	641.80	0.0534			
TSP041223-16	2	08/03/23[1]	602.79	0.0119	-0.042	0.5	No
TSP041223-36	1	08/08/23	1764.08	0.0595			
TSP041223-38	2	08/08/23	1730.76	0.0367	-0.0228	0.5	No
TSP041623-02	1	08/09/23	1784.56	0.0366			
TSP041623-04	2	08/09/23	1752.90	0.0156	-0.0210	0.5	No
TSP041623-06	1	08/10/23	1768.84	0.0449			
TSP041623-08	2	08/10/23	1735.38	0.0169	-0.028	0.5	No
TSP041623-10	1	08/10/23[1]	522.60	0.0392			
TSP041623-12	2	08/10/23[1]	513.77	0.0193	-0.020	0.5	No
TSP032823-01	1	08/15/23	1617.57	0.0822			
TSP032823-03	2	08/15/23	1722.23	0.0231	-0.059	0.5	No
TSP042123-83	1	08/16/23	1772.88	0.0515			
TSP042123-85	2	08/16/23	1735.23	0.0219	-0.0296	0.5	No
TSP032823-05	1	08/17/23	1813.69	0.0273			
TSP032823-07	2	08/17/23	1786.37	0.034	0.0067	0.5	No
TSP032823-09	1	08/17/23[1]	611.43	0.0463			
TSP032823-11	2	08/17/23[1]	602.66	0.0476	0.0013	0.5	No
TSP032823-13	1	08/22/23	1692.77	0.0744			
TSP032823-15	2	08/22/23	1762.26	0.0255	-0.0489	0.5	No
TSP042123-87	1	08/23/23	1692.13	0.0407			
TSP042123-89	2	08/23/23	1761.94	0.0322	-0.0085	0.5	No
TSP042123-91	1	08/24/23	1689.83	0.0561			
TSP042123-93	2	08/24/23	1755.81	0.0406	-0.016	0.5	No
TSP042123-95	1	08/24/23[1]	512.47	0.0738			
TSP042123-97	2	08/24/23[1]	541.81	0.0471	-0.0267	0.5	No
TSP051123-54	1	08/29/23	1782.62	0.0634			
TSP051123-56	2	08/29/23	1740.46	0.0638	0.0004	0.5	No
TSP051123-58	1	08/30/23	1783.30	0.114			
TSP051123-60	2	08/30/23	1741.73	0.0465	-0.0675	0.5	No
TSP051123-62	1	08/31/23	1797.10	0.0812			
TSP051123-64	2	08/31/23	1757.90	0.062	-0.019	0.5	No
TSP051123-66	1	08/31/23[1]	529.76	0.0632			
TSP051123-68	2	08/31/23[1]	515.47	0.0533	-0.0099	0.5	No

Notes:

[1]Air sample was taken down during the afternoon after field activities ceased.

Samples analyzed by Eurofins Analytics

Sample locations are shown on Figure 2-1

HPNS = Hunters Point Naval Shipyard

J = estimated concentration. See data review report for details.

m^3 = cubic meters

mg/m^3 = milligrams per cubic meter

ATTACHMENT 5
COPPER, LEAD, AND MANGANESE MONITORING RESULTS

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Attachment 5: Copper, Lead, and Manganese Monitoring Results

Sample, Date and Station Information			Sampler Run Information	Copper		Lead		Manganese	
Sample ID	Monitoring Station	Sample End Date[1]	Total Air Volume Monitored (m^3)	Concentration in Air (mg/m^3)	Exceedance (Yes/No)	Concentration in Air (mg/m^3)	Exceedance (Yes/No)	Concentration in Air (mg/m^3)	Exceedance (Yes/No)
TSP041223-02	1	08/01/23	1765.16	0.00019602	No	0.00001003	No	< 0.00005552	No
TSP041223-04	2	08/01/23	1787.10	0.00007218	No	< 0.00000783	No	< 0.00005484	No
TSP041223-06	1	08/02/23	1759.28	0.00024726	No	0.00001035	No	< 0.0000557	No
TSP041223-08	2	08/02/23	1718.79	< 0.00005702	No	< 0.00000815	No	< 0.00005702	No
TSP041223-10	1	08/03/23	1769.91	0.00024239	No	0.0000178	No	< 0.00005537	No
TSP041223-12	2	08/03/23	1739.01	< 0.00005635	No	< 0.00000805	No	< 0.00005635	No
TSP041223-14	1	08/03/23[1]	641.80	0.00025553	No	0.00002664	No	< 0.0001527	No
TSP041223-16	2	08/03/23[1]	602.79	< 0.00016258	No	< 0.00002323	No	< 0.00016258	No
TSP041223-36	1	08/08/23	1764.08	0.00023859	No	0.00002093	No	< 0.00005555	No
TSP041223-38	2	08/08/23	1730.76	0.00016958	No	< 0.00000809	No	< 0.00005662	No
TSP041623-02	1	08/09/23	1784.56	0.00032355	No	0.00008215	No	< 0.00005492	No
TSP041623-04	2	08/09/23	1752.90	0.0001295	No	0.00000857	No	< 0.00005591	No
TSP041623-06	1	08/10/23	1768.84	0.00031507	No	0.00001835	No	< 0.0000554	No
TSP041623-08	2	08/10/23	1735.38	0.00010603	No	< 0.00000807	No	< 0.00005647	No
TSP041623-10	1	08/10/23[1]	522.60	0.00045082	No	< 0.00002679	No	< 0.00018752	No
TSP041623-12	2	08/10/23[1]	513.77	< 0.00019075	No	< 0.00002725	No	< 0.00019075	No
TSP032823-01	1	08/15/23	1617.57	0.00038391	No	0.00002566	No	0.00006429	No
TSP032823-03	2	08/15/23	1722.23	0.00023284	No	< 0.00000813	No	< 0.0000569	No
TSP042123-83	1	08/16/23	1772.88	0.0002668	No	0.00002544	No	< 0.00005528	No
TSP042123-85	2	08/16/23	1735.23	0.00020401	No	< 0.00000807	No	< 0.00005648	No
TSP032823-05	1	08/17/23	1813.69	0.00026851	No	0.00000794	No	< 0.00005403	No
TSP032823-07	2	08/17/23	1786.37	0.00018249	No	0.00001064	No	< 0.00005486	No
TSP032823-09	1	08/17/23[1]	611.43	0.00029603	No	< 0.0000229	No	< 0.00016028	No
TSP032823-11	2	08/17/23[1]	602.66	0.00018584	No	< 0.00002323	No	< 0.00016261	No
TSP032823-13	1	08/22/23	1692.77	0.00038399	No	0.00001146	No	< 0.00005789	No
TSP032823-15	2	08/22/23	1762.26	0.0000942	No	< 0.00000794	No	< 0.00005561	No
TSP042123-87	1	08/23/23	1692.13	0.00029726	No	0.00000975	No	< 0.00005792	No
TSP042123-89	2	08/23/23	1761.94	0.00014132	No	0.00000868	No	< 0.00005562	No
TSP042123-91	1	08/24/23	1689.83	0.00036986	No	0.00000935	No	< 0.00005799	No
TSP042123-93	2	08/24/23	1755.81	0.00015605	No	< 0.00000797	No	< 0.00005581	No
TSP042123-95	1	08/24/23[1]	512.47	0.0003688	No	< 0.00002732	No	< 0.00019123	No
TSP042123-97	2	08/24/23[1]	541.81	< 0.00018088	No	< 0.00002584	No	< 0.00018088	No
TSP051123-54	1	08/29/23	1782.62	0.0002631	No	0.00004348	No	< 0.00005498	No
TSP051123-56	2	08/29/23	1740.46	0.00009653	No	0.00001712	No	< 0.00005631	No
TSP051123-58	1	08/30/23	1783.30	0.00079067	No	0.00004912	No	0.00009701	No
TSP051123-60	2	08/30/23	1741.73	0.00014526	No	< 0.00000804	No	< 0.00005627	No
TSP051123-62	1	08/31/23	1797.10	0.00035168	No	0.00001208	No	< 0.00005453	No
TSP051123-64	2	08/31/23	1757.90	0.00014222	No	0.00000848	No	< 0.00005575	No
TSP051123-66	1	08/31/23[1]	529.76	0.00033034	No	< 0.00002643	No	< 0.00018499	No
TSP051123-68	2	08/31/23[1]	515.47	0.00020758	No	< 0.00002716	No	< 0.00019012	No

Notes:

[1]Air sample was taken down during the afternoon after field activities ceased.

Samples analyzed by Eurofins Analytics

Sample locations are shown on Figure 2-1

m^3 = cubic meters

mg/m^3 = milligrams per cubic meter

J = estimated concentration. See data review report for details.

< = below detection limit

ATTACHMENT 6

AIR SAMPLING RESULTS – PUBLIC EXPOSURE MONITORING

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AIR SAMPLE RESULTS - PUBLIC EXPOSURE MONITORING

Project Information			Effluent Air Concentration			Sampling Period	Color Codes
Contract / Task Order Number:	Project Title / Location:	GES Project Number:		Alpha	Beta	Air samples collected	Value < 0.1 x Effluent Conc (i.e., < 10%)
N62473-17-D-0005 / F4332	HPNS Parcel E Phase 2 RA / San Francisco, CA	J310000400	Radionuclide	Ra-226	Sr-90	between 01 Aug 2023	Value > 0.1 x Effluent Conc (i.e., > 10%)
Information effective as of: 07 Sep 2023			Effluent Conc (µCi/ml)	9.E-13	6.E-12	and 31 Aug 2023	Value > Effluent Conc (i.e., > 100%)

Sample Collection									Count Information								Sample Results				Initials	
Sample Number	Sample Type	Sample Location	Equip No	Ave Flow Rate (lpm)	Start Day Time	End Date Time	Elapsed Time (min)	Volume (ml)	Inst No	Count Date	Time (min)	Counting Units	Gross Activity		Net dpm		Activity (µCi/ml)		Effluent Conc (%)		Count Tech	Data Reviewer
													Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta		
AS-0940	Perimeter	MSE01	PE18	50	8/1/23 6:43	8/1/23 15:27	524	2.6E+07	B	08/07/23	1	cpm	0.50	2.05	1.3	-0.4	2.3E-14	N/A	***2.6%***	***N/A***	DFB	BCS
AS-0941	Perimeter	MSE02	PE17	50	8/1/23 6:50	8/1/23 15:33	523	2.6E+07	B	08/07/23	1	cpm	0.45	2.65	1.2	1.3	2.0E-14	2.2E-14	***2.3%***	***0.4%***	DFB	BCS
AS-0942	Perimeter	MSE01	PE18	50	8/2/23 7:00	8/2/23 15:55	535	2.7E+07	B	08/07/23	1	cpm	0.35	2.50	0.8	0.9	1.4E-14	1.5E-14	***1.6%***	***0.2%***	DFB	BCS
AS-0943	Perimeter	MSE02	PE17	50	8/2/23 7:10	8/2/23 15:50	520	2.6E+07	B	08/07/23	1	cpm	0.55	1.75	1.5	-1.3	2.6E-14	N/A	***2.9%***	***N/A***	DFB	BCS
AS-0944	Perimeter	MSE01	PE18	50	8/3/23 6:46	8/3/23 15:08	502	2.5E+07	B	08/07/23	1	cpm	0.35	2.30	0.8	0.3	1.5E-14	5.2E-15	***1.7%***	***0.1%***	DFB	BCS
AS-0945	Perimeter	MSE02	PE17	50	8/3/23 6:53	8/3/23 15:16	503	2.5E+07	B	08/07/23	1	cpm	0.50	2.10	1.3	-0.3	2.4E-14	N/A	***2.7%***	***N/A***	DFB	BCS
AS-0946	Perimeter	MSE01	PE18	50	8/7/23 6:36	8/7/23 15:52	556	2.8E+07	B	08/14/23	1	cpm	0.20	2.80	0.3	1.7	5.5E-15	2.8E-14	***0.6%***	***0.5%***	DFB	BCS
AS-0947	Perimeter	MSE02	PE17	50	8/7/23 6:44	8/7/23 15:57	553	2.8E+07	B	08/14/23	1	cpm	0.30	2.45	0.7	0.7	1.1E-14	1.2E-14	***1.2%***	***0.2%***	DFB	BCS
AS-0948	Perimeter	MSE01	PE18	50	8/8/23 6:37	8/8/23 15:46	549	2.7E+07	B	08/14/23	1	cpm	0.75	2.00	2.2	-0.6	3.6E-14	N/A	***4.0%***	***N/A***	DFB	BCS
AS-0949	Perimeter	MSE02	PE17	50	8/8/23 6:43	8/8/23 15:37	534	2.7E+07	B	08/14/23	1	cpm	0.70	2.30	2.0	0.3	3.4E-14	4.9E-15	***3.8%***	***0.1%***	DFB	BCS
AS-0950	Perimeter	MSE01	PE18	50	8/9/23 6:38	8/9/23 15:49	551	2.8E+07	B	08/14/23	1	cpm	0.45	2.40	1.2	0.6	1.9E-14	9.5E-15	***2.1%***	***0.2%***	DFB	BCS
AS-0951	Perimeter	MSE02	PE17	50	8/9/23 6:45	8/9/23 15:41	536	2.7E+07	B	08/14/23	1	cpm	0.45	1.75	1.2	-1.3	2.0E-14	N/A	***2.2%***	***N/A***	DFB	BCS
AS-0952	Perimeter	MSE01	PE18	50	8/10/23 6:32	8/10/23 13:46	434	2.2E+07	B	08/14/23	1	cpm	0.30	1.90	0.7	-0.9	1.4E-14	N/A	***1.6%***	***N/A***	DFB	BCS
AS-0953	Perimeter	MSE02	PE17	50	8/10/23 6:38	8/10/23 13:46	428	2.1E+07	B	08/14/23	1	cpm	0.75	2.90	2.2	2.0	4.6E-14	4.3E-14	***5.1%***	***0.7%***	DFB	BCS
AS-0954	Perimeter	MSE01	PE18	50	8/14/23 7:20	8/14/23 15:45	505	2.5E+07	B	08/21/23	1	cpm	0.75	2.25	2.2	0.1	3.9E-14	2.6E-15	***4.3%***	***0.0%***	DFB	BCS
AS-0955	Perimeter	MSE02	PE17	50	8/14/23 7:30	8/14/23 15:40	490	2.5E+07	B	08/21/23	1	cpm	0.50	1.34	1.3	-2.5	2.5E-14	N/A	***2.8%***	***N/A***	DFB	BCS
AS-0956	Perimeter	MSE01	PE18	50	8/15/23 6:45	8/15/23 15:40	535	2.7E+07	B	08/21/23	1	cpm	0.40	1.65	1.0	-1.6	1.7E-14	N/A	***1.9%***	***N/A***	DFB	BCS
AS-0957	Perimeter	MSE02	PE17	50	8/15/23 6:50	8/15/23 15:35	525	2.6E+07	B	08/21/23	1	cpm	0.40	1.85	1.0	-1.0	1.7E-14	N/A	***1.9%***	***N/A***	DFB	BCS
AS-0958	Perimeter	MSE01	PE18	50	8/16/23 6:39	8/16/23 15:35	536	2.7E+07	B	08/21/23	1	cpm	0.10	3.90	0.0	4.9	0.0E+00	8.3E-14	***0.0%***	***1.4%***	DFB	BCS
AS-0959	Perimeter	MSE02	PE17	50	8/16/23 6:44	8/16/23 15:26	522	2.6E+07	B	08/21/23	1	cpm	0.15	3.90	0.2	4.9	2.9E-15	8.5E-14	***0.3%***	***1.4%***	DFB	BCS
AS-0960	Perimeter	MSE01	PE18	50	8/17/23 7:02	8/17/23 15:39	517	2.6E+07	B	08/21/23	1	cpm	0.20	3.65	0.3	4.2	5.9E-15	7.3E-14	***0.7%***	***1.2%***	DFB	BCS
AS-0961	Perimeter	MSE02	PE17	50	8/17/23 7:09	8/17/23 15:32	503	2.5E+07	B	08/21/23	1	cpm	0.15	4.10	0.2	5.5	3.0E-15	9.9E-14	***0.3%***	***1.6%***	DFB	BCS
AS-0962	Perimeter	MSE01	PE18	50	8/21/23 6:39	8/21/23 16:15	576	2.9E+07	B	08/28/23	1	cpm	0.35	2.25	0.8	0.1	1.3E-14	2.3E-15	***1.5%***	***0.0%***	DFB	BCS
AS-0963	Perimeter	MSE02	PE17	50	8/21/23 6:41	8/21/23 15:27	526	2.6E+07	B	08/28/23	1	cpm	0.40	2.15	1.0	-0.1	1.7E-14	N/A	***1.9%***	***N/A***	DFB	BCS
AS-0964	Perimeter	MSE01	PE18	50	8/22/23 6:42	8/22/23 15:30	528	2.6E+07	B	08/28/23	1	cpm	0.50	2.25	1.3	0.1	2.3E-14	2.5E-15	***2.6%***	***0.0%***	DFB	BCS
AS-0965	Perimeter	MSE02	PE17	50	8/22/23 6:47	8/22/23 15:25	518	2.6E+07	B	08/28/23	1	cpm	0.70	2.70	2.0	1.4	3.5E-14	2.5E-14	***3.9%***	***0.4%***	DFB	BCS
AS-0966	Perimeter	MSE01	PE18	50	8/23/23 6:52	8/23/23 15:32	520	2.6E+07	B	08/28/23	1	cpm	0.20	3.00	0.3	2.3	5.8E-15	4.0E-14	***0.6%***	***0.7%***	DFB	BCS
AS-0967	Perimeter	MSE02	PE17	50	8/23/23 6:58	8/23/23 15:27	509	2.5E+07	B	08/28/23	1	cpm	0.45	1.95	1.2	-0.7	2.1E-14	N/A	***2.3%***	***N/A***	DFB	BCS
AS-0968	Perimeter	MSE01	PE18	50	8/24/23 6:47	8/24/23 14:06	439	2.2E+07	B	08/28/23	1	cpm	0.35	2.90	0.8	2.0	1.7E-14	4.2E-14	***1.9%***	***0.7%***	DFB	BCS
AS-0969	Perimeter	MSE02	PE17	50	8/24/23 6:52	8/24/23 13:48	416	2.1E+07	B	08/28/23	1	cpm	0.55	2.60	1.5	1.2	3.3E-14	2.5E-14	***3.6%***	***0.4%***	DFB	BCS
AS-0970	Perimeter	MSE01	PE18	50	8/28/23 6:49	8/29/23 15:36	1967	9.8E+07	B	09/05/23	1	cpm	0.50	2.85	1.3	1.9	6.2E-15	8.6E-15	***0.7%***	***0.1%***	BCS	JSV
AS-0971	Perimeter	MSE02	PE17	50	8/28/23 6:58	8/28/23 15:28	510	2.5E+07	B	09/05/23	1	cpm	0.55	3.40	1.5	3.5	2.7E-14	6.1E-14	***3.0%***	***1.0%***	BCS	JSV
AS-0972	Perimeter	MSE01	PE18	50	8/29/23 6:46	8/29/23 15:36	530	2.6E+07	B	09/05/23	1	cpm	0.35	2.15	0.8	-0.1	1.4E-14	N/A	***1.6%***	***N/A***	BCS	JSV
AS-0973	Perimeter	MSE02	PE17	50	8/29/23 6:52	8/29/23 15:45	533	2.7E+07	B	09/05/23	1	cpm	0.50	2.25	1.3	0.1	2.3E-14	2.4E-15	***2.5%***	***0.0%***	BCS	JSV

ATTACHMENT 7
LABORATORY REPORTS

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Laboratory Analysis Report

Job ID : 23080977

10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :
J310000400 / Hunters Point Shipyard, Parcel E RA Phase II

Report To :	Client Name:	GES - ASRC Industrial	Total Number of Pages:	9
	Attn:	[redacted]	P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	08/09/2023 09:40
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

A&B Labs has analyzed the following samples...

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-073123	7/31/2023 15:47	Cassette	23080977.01
MSE02-073123	7/31/2023 15:53	Cassette	23080977.02
MSE01-080123	8/1/2023 15:31	Cassette	23080977.03
MSE02-080123	8/1/2023 15:39	Cassette	23080977.04
MSE01-080223	8/2/2023 15:29	Cassette	23080977.05
MSE02-080223	8/2/2023 15:37	Cassette	23080977.06
MSE01-080323	8/3/2023 15:11	Cassette	23080977.07
MSE02-080323	8/3/2023 15:01	Cassette	23080977.08

[redacted]

Released By: [redacted]

Title: Vice President Operations

Analyst: [redacted]

ANALYSIS OF AIRBORNE FIBER SAMPLING
SAMPLING PERFORMED BY CLIENT
ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.
AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080

Date 8/16/2023

Job ID : 23080977
Analytical Method: NIOSH 7400-I3-June2019

Client: GES - ASRC Industrial Project: J310000400 / Hunters Point Shipyard, Parcel E RA Phase II Attn: [redacted]

A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
23080977.01	MSE01-073123	07/31/2023	Area	2			564	1128	100	9.5	12.102	0.004		08/14/23	[redacted]
23080977.02	MSE02-073123	07/31/2023	Area	2			562	1124	100	9.0	11.465	0.009		08/14/23	
23080977.03	MSE01-080123	08/01/2023	Area	2			548	1096	100	5.5	7.006	0.002		08/14/23	
23080977.04	MSE02-080123	08/01/2023	Area	2			547	1094	100	11	14.013	0.005		08/14/23	
23080977.05	MSE01-080223	08/02/2023	Area	2			549	1098	100	11.5	14.650	0.005		08/14/23	
23080977.06	MSE02-080223	08/02/2023	Area	2			548	1096	100	9	11.465	0.004		08/14/23	
23080977.07	MSE01-080323	08/03/2023	Area	2			530	1060	100	9.0	11.465	0.004		08/14/23	
23080977.08	MSE02-080323	08/03/2023	Area	2			507	1014	100	6.5	8.280	0.003		08/14/23	

Detection limit of this method is estimated at 7 f/mm2 (5.5 fibers per 100 fields)

Sr Value

(Fiber Range*; Sr Value): (5-20; Sr = 0.06), (20-50; Sr = 0.05), (50-100; Sr = 0.04), (>100; Sr = 0.04)

*Fiber Range = # of Fibers / 100 Counts

OUTR = Overload,Unable To Read

Intralaboratory Sr 5-20:0.06 20-50:0.04 50-100:0.02

Sample Condition Checklist

A&B JobID : **23080977**	Date Received : **08/09/2023**	Time Received : **9:40AM**
Client Name : **GES - ASRC Industrial**		
Temperature : **24.1°C**	Sample pH : **NA**	
Thermometer ID : **IR5**	pH Paper ID : **NA**	
Perservative :		

	Check Points	Yes	No	N/A
1.	**Cooler Seal present and signed.**	X		
2.	**Sample(s) in a cooler.**		X	
3.	**If yes, ice in cooler.**			X
4.	**Sample(s) received with chain-of-custody.**	X		
5.	**C-O-C signed and dated.**	X		
6.	**Sample(s) received with signed sample custody seal.**		X	
7.	**Sample containers arrived intact. (If No comment)**	X		
8.	**Matrix:** Water ☐ Soil ☐ Liquid ☐ Sludge ☐ Solid ☐ Cassette ☑ Tube ☐ Bulk ☐ Badge ☐ Food ☐ Other ☐			
9.	**Samples were received in appropriate container(s)**	X		
10.	**Sample(s) were received with Proper preservative**			X
11.	**All samples were tagged or labeled.**	X		
12.	**Sample ID labels match C-O-C ID's.**	X		
13.	**Bottle count on C-O-C matches bottles found.**	X		
14.	**Sample volume is sufficient for analyses requested.**	X		
15.	**Samples were received with in the hold time.**	X		
16.	**VOA vials completely filled.**			X
17.	**Sample accepted.**	X		
18.	**Has client been contacted about sub-out**			X

Comments : Include actions taken to resolve discrepancies/problem:

No cooler was received, however samples are received in a box with a custody seal. ~[redacted] 8/9/23

Received by : [redacted]

Check in by/date : [redacted] / 08/09/2023

ab-s005-0321

Job ID:2308097[illegible]

08/09/2023 GES - ASRC Industrial ACH

[redacted]080823ASBE

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Event: Parcel E Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-073123	A	07/31/2023	1547	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-073123	A	07/31/2023	1553		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

01A
02A

[redacted] 8/8/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	8/8/23	1300	FedEx	8/8/23	1300	Shipping Date:08/08/23 / FEDEX 7728 4594 3356
FEDEX	8-9-23	09:40	[redacted]	8-9-23	09:40	**Received by Laboratory:** *(Signature, Date, Time)* **& condition**

24.1 °C
IR5 [redacted]

CHAIN-OF-CUSTODY RECORD

COC ID # [redacted]080823ASBE

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Event: Parcel E Asbestos

Analytical Test Method: Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

	Sample ID	Matrix	Date	Time	Samp Init.	Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-080123	A	08/01/2023	1531	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-080123	A	08/01/2023	1539		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

03A
04A

[redacted]

8/8/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	8/8/23	1300	Fedex	8/8/23	1300	Shipping Date:08/08/23 / FEDEX 7728 4594 3356
FEDEX	8-9-23	09:40	[redacted]	8-9-23	09:40	**Received by Laboratory:** *(Signature, Date, Time)* **& condition**

24.1 °C
IR4
[redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

COC ID # [redacted]080823ASBE

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: Parcel E Asbestos
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Event: Parcel E Asbestos

Analytical Test Method: Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

	Sample ID	Matrix	Date	Time	Samp Init.	1	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-080223	A	08/02/2023	1529	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-080223	A	08/02/2023	1537		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

USA
DBA

[redacted]

8/8/23

Turnaround Time: 7 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	8/8/23	1300	Fedex	8/8/23	1300	Shipping Date:08/08/23 / FEDEX 7728 4594 3356
[redacted]	9-9-23	09:40	[redacted]	8-9-23	09:40	Received by Laboratory: (Signature, Date, Time) & condition

24.1 °C
IR5
[redacted]

CHAIN-OF-CUSTODY RECORD

COC ID # [redacted]080823ASBE

Gilbane Federa[redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC: Alisha Hughes alishar@ablabs.com	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Event: Parcel E Asbestos

Analytical Test Method

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

	Sample ID	Matrix	Date	Time	Samp Init.	Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-080323	A	08/03/2023	1511	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-080323	A	08/03/2023	1501		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

[redacted]

8/8/23

07A
08A

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	8/8/23	1300	Fedex	8/8/23	1300	Shipping Date:08/08/23 / FEDEX 7728 4594 3356
FEDEX	8-9-23	09:40	[redacted]	8-9-23	09:40	**Received by Laboratory:** *(Signature, Date, Time)* **& condition**

24.1°C
IR5
[redacted]

COC ID # [redacted]080823ASBE

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Event: Parcel E Asbestos
Project Number: J310000400	
WBS Code: J310000400	

Sample ID	End Date	End Time	Flow Rate (L/min), Total Time (mins)
MSE01-073123	31-Jul	15:47	2; 564
MSE02-073123	31-Jul	15:53	2; 562
MSE01-080123	1-Aug	15:31	2; 548
MSE02-080123	1-Aug	15:39	2; 547
MSE01-080223	2-Aug	15:29	2; 549
MSE02-080223	2-Aug	15:37	2; 548
MSE01-080323	3-Aug	15:11	2; 530
MSE02-080323	3-Aug	15:01	2; 507

ORIGIN ID:JCCA [redacted]
[redacted]
200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 01AUG23
ACTWGT: 1.00 LB
CAD: 254128867/INET4640

BILL SENDER

TO [redacted]

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029
(713) 453-6060 REF: J31000.400.00.18.04
INV
PO DEPT

583JJ/A140/9AE3

FedEx Express

WED - 02 AUG 5:00P
STANDARD OVERNIGHT

TRK# 0201 **7728 4594 3356**

AB HBYA

77029
IAH
TX-US

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Laboratory Analysis Report

Job ID : 23081689

10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :
J310000400 / Hunters Point Shipyard, Parcel E RA Phase II

Report To :	Client Name:	GES - ASRC Industrial	Total Number of Pages:	9
	Attn:	[redacted]	P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	08/16/2023 10:17
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

A&B Labs has analyzed the following samples...

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-080723	8/7/2023 15:43	Air	23081689.01
MSE02-080723	8/7/2023 15:49	Air	23081689.02
MSE01-080823	8/8/2023 15:42	Air	23081689.03
MSE02-080823	8/8/2023 15:49	Air	23081689.04
MSE01-080923	8/9/2023 15:42	Air	23081689.05
MSE02-080923	8/9/2023 15:49	Air	23081689.06
MSE01-081023	8/10/2023 13:35	Air	23081689.07
MSE02-081023	8/10/2023 13:47	Air	23081689.08

[redacted]

Released By: [redacted]

Title: Vice President Operations

Analyst: [redacted]

ANALYSIS OF AIRBORNE FIBER SAMPLING
SAMPLING PERFORMED BY CLIENT
ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.
AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080

Date 8/23/2023

Job ID : 23081689
Analytical Method: NIOSH 7400-I3-June2019

Client: GES - ASRC Industrial Project: J310000400 / Hunters Point Shipyard, Parcel E RA Phase II Attn: [redacted]

A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
23081689.01	MSE01-080723	08/07/2023	Area	2			561	1122	100	17.5	22.293	0.008		08/23/23	[redacted]
23081689.02	MSE02-080723	08/07/2023	Area	2			557	1114	100	13.5	17.197	0.006		08/23/23	
23081689.03	MSE01-080823	08/08/2023	Area	2			559	1118	100	10.0	12.739	0.004		08/23/23	
23081689.04	MSE02-080823	08/08/2023	Area	2			556	1112	100	23.5	29.936	0.010		08/23/23	
23081689.05	MSE01-080923	08/09/2023	Area	2			548	1096	100	9.5	12.102	0.004		08/23/23	
23081689.06	MSE02-080923	08/09/2023	Area	2			545	1090	100	11.5	14.650	0.005		08/23/23	
23081689.07	MSE01-081023	08/10/2023	Area	2			436	872	100	15.5	19.745	0.009		08/23/23	
23081689.08	MSE02-081023	08/10/2023	Area	2			431	862	100	9.0	11.465	0.005		08/23/23	

Detection limit of this method is estimated at 7 f/mm2 (5.5 fibers per 100 fields)

Sr Value

(Fiber Range*; Sr Value): (5-20; Sr = 0.06), (20-50; Sr = 0.05), (50-100; Sr = 0.04), (>100; Sr = 0.04)

*Fiber Range = # of Fibers / 100 Counts

OUTR = Overload,Unable To Read

Intralaboratory Sr 5-20:0.06 20-50:0.04 50-100:0.02

Sample Condition Checklist

A&B JobID : **23081689**	Date Received : **08/16/2023**	Time Received : **10:17AM**
Client Name : **GES - ASRC Industrial**		
Temperature : **27.5°C**	Sample pH : **NA**	
Thermometer ID : **IR5**	pH Paper ID : **NA**	
Perservative :		

	Check Points	Yes	No	N/A
1.	**Cooler Seal present and signed.**	X		
2.	**Sample(s) in a cooler.**		X	
3.	**If yes, ice in cooler.**			X
4.	**Sample(s) received with chain-of-custody.**	X		
5.	**C-O-C signed and dated.**	X		
6.	**Sample(s) received with signed sample custody seal.**		X	
7.	**Sample containers arrived intact. (If No comment)**	X		
8.	**Matrix:** Water ☐ Soil ☐ Liquid ☐ Sludge ☐ Solid ☐ Cassette ☑ Tube ☐ Bulk ☐ Badge ☐ Food ☐ Other ☐			
9.	**Samples were received in appropriate container(s)**	X		
10.	**Sample(s) were received with Proper preservative**			X
11.	**All samples were tagged or labeled.**	X		
12.	**Sample ID labels match C-O-C ID's.**	X		
13.	**Bottle count on C-O-C matches bottles found.**	X		
14.	**Sample volume is sufficient for analyses requested.**	X		
15.	**Samples were received with in the hold time.**	X		
16.	**VOA vials completely filled.**			X
17.	**Sample accepted.**	X		
18.	**Has client been contacted about sub-out**			X

Comments : Include actions taken to resolve discrepancies/problem:

No cooler was received, however samples are received in a box with a custody seal. Black Cassettes. ~[redacted] 8/16/2023

Brought by : FedEx

Received by : [redacted]

Check in by/date : [redacted] / 08/16/2023

ab-s005-0321

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

COC ID # [redacted]081523ASBE

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Job ID:23081689
08/16/2023 GES - ASRC Industrial ACH

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

Equipment:

Event: Parcel E Asbestos

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1						
1	MSE01-080723	A	08/07/2023	1543	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-080723	A	08/07/2023	1549		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

01A
02A

[redacted] 8/15/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	8/15/23	1300	Fedex	8/15/23	1300	Shipping Date:08/15/23 / FEDEX 7728 6115 9500
Fedex	8/16/23	10:17				[redacted] *(Signature, Date, Time)* **& condition** 8/16/23 10:17 27.5°C [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

COC ID # [redacted]081523ASBE

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Analytical Test Method: Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

Event: Parcel E Asbestos

	Sample ID	Matrix	Date	Time	Samp Init.	1	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-080823	A	08/08/2023	1542	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-080823	A	08/08/2023	1549		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

0300
0400

[redacted] 8/15/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	8/15/23	1300	Fedex	8/15/23	1320	Shipping Date:08/15/23 / FEDEX 7728 6115 9500
FedEx	8/16/23	10:17				[redacted] atory: *(Signature, Date, Time)* & condition 8/16/23 10:17 27.5°C. [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

COC ID # [redacted]081523ASBE

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Event: Parcel E Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
05A	1 MSE01-080923	A	08/09/2023	1542	[redacted]	x	MSE01	N1	0.00	0.00	1	
06A	2 MSE02-080923	A	08/09/2023	1549		x	MSE02	N1	0.00	0.00	1	
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											

[redacted] 8/15/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	8/15/23	1300	Fedex	8/15/23	1300	Shipping Date:08/15/23 / FEDEX 7728 6115 9500
FedEx	8/16/23	10:17	[redacted]			ory: *(Signature, Date, Time)* **& condition** 8/16/23 10:17 27.5°C [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282 [redacted]

COC ID # [redacted]081523ASBE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Event: Parcel E Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-081023	A	08/10/2023	1335	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-081023	A	08/10/2023	1347		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

070
080

[redacted] 8/15/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	8/15/23	1300	FedEx	8/15/23	1300	Shipping Date:08/15/23 / FEDEX 7728 6115 9500
FedEx	8/16/23	10:17				[redacted] *(Signature, Date, Time)* & condition 8/16/23 10:17 27.5°C. [redacted]

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Event: Parcel E Asbestos
Project Number: J310000400	
WBS Code: J310000400	

Sample ID	End Date	End Time	Flow Rate (L/min), Total Time (mins)
MSE01-080723	7-Aug	15:43	2; 561
MSE02-080723	7-Aug	15:49	2; 557
MSE01-080823	8-Aug	15:42	2; 559
MSE02-080823	8-Aug	15:49	2; 556
MSE01-080923	9-Aug	15:42	2; 548
MSE02-080923	9-Aug	15:49	2; 545
MSE01-081023	10-Aug	13:35	2; 436
MSE02-081023	10-Aug	13:47	2; 431

ORIGIN ID:JCCA [redacted]

[redacted]

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 01AUG23
ACTWGT: 1.00 LB
CAD: 254128867/INET4640

BILL SENDER

TO [redacted]

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029
(713) 453-6060 REF: J31000.400.00.18.04
INV:
PO: DEPT:

583J3/A140/9AE3

FedEx Express

J2330230/1001uv

WED - 02 AUG 5:00P
STANDARD OVERNIGHT

TRK# 0201 **7728 6115 9500**

AB HBYA

77029
TX-US **IAH**

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Laboratory Analysis Report

Job ID : 23082397

10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :
J310000400 / Hunters Point Shipyard, Parcel E RA Phase II

Report To :	Client Name:	GES - ASRC Industrial	Total Number of Pages:	9
	Attn:	[redacted]	P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	08/23/2023 09:07
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

A&B Labs has analyzed the following samples...

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-081423	8/14/2023 15:39	Cassette	23082397.01
MSE02-081423	8/14/2023 15:45	Cassette	23082397.02
MSE01-081523	8/15/2023 15:32	Cassette	23082397.03
MSE02-081523	8/15/2023 15:43	Cassette	23082397.04
MSE01-081623	8/16/2023 15:33	Cassette	23082397.05
MSE02-081623	8/16/2023 15:42	Cassette	23082397.06
MSE01-081723	8/17/2023 15:10	Cassette	23082397.07
MSE02-081723	8/17/2023 15:24	Cassette	23082397.08

[redacted]

Released By: [redacted]

Title: Vice President Operations

Analyst: [redacted]

ANALYSIS OF AIRBORNE FIBER SAMPLING
SAMPLING PERFORMED BY CLIENT
ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.
AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080

Date 8/30/2023

Job ID : 23082397
Analytical Method: NIOSH 7400-I3-June2019

Client: GES - ASRC Industrial Project: J310000400 / Hunters Point Shipyard, Parcel E RA Phase II Attn: [redacted]

A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
23082397.01	MSE01-081423	08/14/2023	Area	2			527	1054	100	20.0	25.478	0.009		08/24/23	[redacted]
23082397.02	MSE02-081423	08/14/2023	Area	2			527	1054	100	9	11.465	0.004		08/24/23	
23082397.03	MSE01-081523	08/15/2023	Area	2			545	1090	100	5.5	7.006	0.002		08/24/23	
23082397.04	MSE02-081523	08/15/2023	Area	2			537	1074	100	7.0	8.917	0.003		08/24/23	
23082397.05	MSE01-081623	08/16/2023	Area	2			542	1084	100	5.5	7.006	0.002		08/24/23	
23082397.06	MSE02-081623	08/16/2023	Area	2			542	1084	100	13.5	17.197	0.006		08/24/23	
23082397.07	MSE01-081723	08/17/2023	Area	2			497	994	100	8.5	10.828	0.004		08/24/23	
23082397.08	MSE02-081723	08/17/2023	Area	2			497	994	100	7.0	8.917	0.003		08/24/23	

Detection limit of this method is estimated at 7 f/mm2 (5.5 fibers per 100 fields)

Sr Value

(Fiber Range*; Sr Value): (5-20; Sr = 0.06), (20-50; Sr = 0.05), (50-100; Sr = 0.04), (>100; Sr = 0.04)

*Fiber Range = # of Fibers / 100 Counts

OUTR = Overload,Unable To Read

Intralaboratory Sr 5-20:0.06 20-50:0.04 50-100:0.02

Sample Condition Checklist

A&B JobID : **23082397**	Date Received : **08/23/2023**	Time Received : **9:07AM**
Client Name : **GES - ASRC Industrial**		
Temperature : **23.8°C**	Sample pH : **NA**	
Thermometer ID : **IR5**	pH Paper ID : **NA**	
Perservative :		

	Check Points	Yes	No	N/A
1.	**Cooler Seal present and signed.**	X		
2.	**Sample(s) in a cooler.**		X	
3.	**If yes, ice in cooler.**			X
4.	**Sample(s) received with chain-of-custody.**	X		
5.	**C-O-C signed and dated.**	X		
6.	**Sample(s) received with signed sample custody seal.**		X	
7.	**Sample containers arrived intact. (If No comment)**	X		
8.	**Matrix:** Water ☐ Soil ☐ Liquid ☐ Sludge ☐ Solid ☐ Cassette ☑ Tube ☐ Bulk ☐ Badge ☐ Food ☐ Other ☐			
9.	**Samples were received in appropriate container(s)**	X		
10.	**Sample(s) were received with Proper preservative**			X
11.	**All samples were tagged or labeled.**	X		
12.	**Sample ID labels match C-O-C ID's.**	X		
13.	**Bottle count on C-O-C matches bottles found.**	X		
14.	**Sample volume is sufficient for analyses requested.**	X		
15.	**Samples were received with in the hold time.**	X		
16.	**VOA vials completely filled.**			X
17.	**Sample accepted.**	X		
18.	**Has client been contacted about sub-out**			X

Comments : Include actions taken to resolve discrepancies/problem:

No cooler was received, however samples are received in a box with a custody seal. ~[redacted] 8/23/23

Brought by : FedEx

Received by : [redacted]

Check in by/date : [redacted] / 08/23/2023

ab-s005-0321

Job ID:23082397

08/23/2023 GES - ASRC Industrial ACH

CHAIN-OF-CUSTODY RECORD

COC ID # [redacted]082223ASBE

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: Parcel E Asbestos
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Event: Parcel E Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos (1)	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-081423	A	08/14/2023	1539	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-081423	A	08/14/2023	1545		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

01A
02A

[redacted] 8/22/23

Turnaround Time: 7 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	8/22/23	1400	FedEx	8/22/23	1400	Shipping Date:08/22/23 / FEDEX 7729 5624 8094
FED EX	8/23/23	09:07				Received by laboratory (Signature, Date, Time) & condition: [redacted] 8/23/23 09:07
						23.8°C IR5

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

COC ID # [redacted]082223ASBE

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

Event: Parcel E Asbestos

	Sample ID	Matrix	Date	Time	Samp Init.	Asbestos (Analytical Test Method)	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-081523	A	08/15/2023	1532	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-081523	A	08/15/2023	1543		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

03A
04A

[redacted] 8/22/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	8/22/23	1400	FedEx	8/22/23	1400	Shipping Date:08/22/23 / FEDEX 7729 5624 8094
FEDEX	8/23/23	09:07				Received by Laboratory: *(Signature, Date, Time)* & condition [redacted] 8/23/23 09:07
						23.8°C IR5

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

COC ID # [redacted]082223ASBE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Analytical Test Method

Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

Event: Parcel E Asbestos

	Sample ID	Matrix	Date	Time	Samp Init.	Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-081623	A	08/16/2023	1533	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-081623	A	08/16/2023	1542		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

05A
06A

[redacted] 8/22/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	8/22/23	1400	Fedex	8/22/23	1400	Shipping Date:08/22/23 / FEDEX 7729 5624 8094
FED Ex	8/23/23	09:07				[redacted] Date, Time) & condition 8/23/23 09:07
						23.8°C IRS

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

COC ID # [redacted]082223ASBE

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Event: Parcel E Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-081723	A	08/17/2023	1510	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-081723	A	08/17/2023	1524		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

07A
08A

[redacted] 8/22/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	8/22/23	1400	Fedex	8/22/23	1400	Shipping Date:08/22/23 / FEDEX 7729 5624 8094
FED EX	8/23/23	09:07				[redacted] Time) & condition 8/23/23 09:07
						23.8°C IR5

COC ID # [redacted]082223ASBE

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Event: Parcel E Asbestos
Project Number: J310000400	
WBS Code: J310000400	

Sample ID	End Date	End Time	Flow Rate (L/min), Total Time (mins)
MSE01-081423	14-Aug	15:39	2; 527
MSE02-081423	14-Aug	15:45	2; 527
MSE01-081523	15-Aug	15:32	2; 545
MSE02-081523	15-Aug	15:43	2; 537
MSE01-081623	16-Aug	15:33	2; 542
MSE02-081623	16-Aug	15:42	2; 542
MSE01-081723	17-Aug	15:10	2; 497
MSE02-081723	17-Aug	15:24	2; 497

ORIGIN ID: JCCA [redacted]

[redacted]

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 08AUG23
ACTWGT: 1.00 LB
CAD: 254128867/INET4640

BILL SENDER

TO [redacted]

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029
(713) 453-6060 REF J31000.400.00.18.04
INV
PO DEPT

583J3/A140/9AE3

FedEx Express

J231230/2501uw

WED - 09 AUG 5:00P
STANDARD OVERNIGHT

TRK# 0201 **7729 5624 8094**

AB HBYA

77029
TX-US IAH

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Laboratory Analysis Report

Job ID : 23083114

10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :
J310000400 / Hunters Point Shipyard, Parcel E RA Phase II

Report To :	Client Name:	GES - ASRC Industrial	Total Number of Pages:	9
	Attn:	[redacted]	P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	08/30/2023 10:23
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

A&B Labs has analyzed the following samples...

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-082123	8/21/2023 15:19	Cassette	23083114.01
MSE02-082123	8/21/2023 15:17	Cassette	23083114.02
MSE01-082223	8/22/2023 15:29	Cassette	23083114.03
MSE02-082223	8/22/2023 15:39	Cassette	23083114.04
MSE01-082323	8/23/2023 15:23	Cassette	23083114.05
MSE02-082323	8/23/2023 15:33	Cassette	23083114.06
MSE01-082423	8/24/2023 13:56	Cassette	23083114.07
MSE02-082423	8/24/2023 14:10	Cassette	23083114.08

[redacted]

Released By: [redacted]

Title: Vice President Operations

Analyst: [redacted]

ANALYSIS OF AIRBORNE FIBER SAMPLING
SAMPLING PERFORMED BY CLIENT
ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.
AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080

Date 9/7/2023

Job ID : 23083114
Analytical Method: NIOSH 7400-I3-June2019

Client: GES - ASRC Industrial Project: J310000400 / Hunters Point Shipyard, Parcel E RA Phase II Attn: [redacted]

A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
23083114.01	MSE01-082123	08/21/2023	Area	2			535	1070	100	13.0	16.561	0.006		09/01/23	[redacted]
23083114.02	MSE02-082123	08/21/2023	Area	2			526	1052	100	4.0	5.096	< 0.003		09/01/23	
23083114.03	MSE01-082223	08/22/2023	Area	2			546	1092	100	1	1.274	< 0.002		09/01/23	
23083114.04	MSE02-082223	08/22/2023	Area	2			544	1088	100	7	8.917	0.003		09/01/23	
23083114.05	MSE01-082323	08/23/2023	Area	2			534	1068	100	4	5.096	< 0.003		09/01/23	
23083114.06	MSE02-082323	08/23/2023	Area	2			531	1062	100	4.5	5.732	< 0.003		09/01/23	
23083114.07	MSE01-082423	08/24/2023	Area	2			443	886	100	6	7.643	0.003		09/01/23	
23083114.08	MSE02-082423	08/24/2023	Area	2			451	902	100	4.0	5.096	< 0.003		09/01/23	

Detection limit of this method is estimated at 7 f/mm2 (5.5 fibers per 100 fields)

Sr Value

(Fiber Range*; Sr Value): (5-20; Sr = 0.06), (20-50; Sr = 0.05), (50-100; Sr = 0.04), (>100; Sr = 0.04)

*Fiber Range = # of Fibers / 100 Counts

OUTR = Overload,Unable To Read

Intralaboratory Sr 5-20:0.06 20-50:0.04 50-100:0.02

Sample Condition Checklist

A&B JobID : **23083114**	Date Received : **08/30/2023**	Time Received : **10:23AM**
Client Name : **GES - ASRC Industrial**		
Temperature : **25.2°C**	Sample pH : **NA**	
Thermometer ID : **IR5**	pH Paper ID : **NA**	
Perservative :		

	Check Points	Yes	No	N/A
1.	**Cooler Seal present and signed.**	X		
2.	**Sample(s) in a cooler.**		X	
3.	**If yes, ice in cooler.**			X
4.	**Sample(s) received with chain-of-custody.**	X		
5.	**C-O-C signed and dated.**	X		
6.	**Sample(s) received with signed sample custody seal.**		X	
7.	**Sample containers arrived intact. (If No comment)**	X		
8.	**Matrix:** Water ☐ Soil ☐ Liquid ☐ Sludge ☐ Solid ☐ Cassette ☑ Tube ☐ Bulk ☐ Badge ☐ Food ☐ Other ☐			
9.	**Samples were received in appropriate container(s)**	X		
10.	**Sample(s) were received with Proper preservative**			X
11.	**All samples were tagged or labeled.**	X		
12.	**Sample ID labels match C-O-C ID's.**	X		
13.	**Bottle count on C-O-C matches bottles found.**	X		
14.	**Sample volume is sufficient for analyses requested.**	X		
15.	**Samples were received with in the hold time.**	X		
16.	**VOA vials completely filled.**			X
17.	**Sample accepted.**	X		
18.	**Has client been contacted about sub-out**			X

Comments : Include actions taken to resolve discrepancies/problem:

No cooler was received, however samples are received in a box with a custody seal. Black Cassettes. ~[redacted] 8/30/2023

Brought by : [redacted]

Received by : EValdez

Check in by/date : [redacted] / 08/30/2023

ab-s005-0321

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

COC ID # [redacted]082923ASBE

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: Parcel E Asbestos
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Job ID:23083114

08/30/2023 GES - ASRC Industrial ACH

Equipment:

Event: Parcel E Asbestos

Page 1 of 4

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-082123	A	08/21/2023	1519	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-082123	A	08/21/2023	1527		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

01A
02A

8/29/23

8/29/23

Turnaround Time: 7 days

[redacted]	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	8/29/23	1300	FEDEX	8/29/23	1300	Shipping Date 08/29/23 / FEDEX 7730 5784 6361
Fedex	8/30/23	10:23				[redacted] (Signature, Date, Time) & condition 8/30/23 10:23 25.2c Intact [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

COC ID # [redacted]082923ASBE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Event: Parcel E Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-082223	A	08/22/2023	1529	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-082223	A	08/22/2023	1539		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

8/29/23 [redacted]

8/29/23 [redacted]

038
04P

Turnaround Time: 7 days

[redacted]	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
	8/29/23	1300	FEDEX	8/29/23	1300	Shipping Date 08/29/23 / FEDEX 7730 5784 6361
FedEx	8/30/23	10:23				[redacted] ratory: *(Signature, Date, Time)* **& condition** 8/30/23 10:23 25.2°C Fed

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

COC ID # [redacted]082923ASBE

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Event: Parcel E Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

Page 3 of 4

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1						
1	MSE01-082323	A	08/23/2023	1523	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-082323	A	08/23/2023	1533		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

USB
USB

[redacted] 8/29/23

[redacted] 8/29/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	8/29/23	1300	FEDEX	8/29/23	1300	Shipping Date 08/29/23 / FEDEX 7730 5784 6361
FEDEX	8/30/23	10:23	[redacted]			nature, Date, Time) & condition
						8/30/23 10:23 25.2 °C SNS

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

COC ID # [redacted]082923ASBE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: Parcel E Asbestos
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Event: Parcel E Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

Page 4 of 4

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos 1	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-082423	A	08/24/2023	1356	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-082423	A	08/24/2023	1410		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

8/29/23 [redacted] 8/29/23

07A
08A

Turnaround Time: 7 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	8/29/23	1300	FEDEX	8/29/23	1300	Shipping Date 08/29/23 / FEDEX 7730 5784 6361
FEDEX	8/30/23	10:23	[redacted]			nature, Date, Time) & condition
						8/30/23 10:23 25.2°C

COC ID # [redacted]082923ASBE

Project Name: Hunters Point Shipyard, Parcel E RA Phase II				Event: Parcel E Asbestos
Project Number: J310000400				
WBS Code: J310000400				
Sample ID	End Date	End Time	Flow Rate (L/min), Total Time (mins)	
MSE01-082123	21-Aug	15:19	2; 535	
MSE02-082123	21-Aug	15:27	2; 526	
MSE01-082223	22-Aug	15:29	2; 546	
MSE02-082223	22-Aug	15:39	2; 544	
MSE01-082323	23-Aug	15:23	2; 534	
MSE02-082323	23-Aug	15:33	2; 531	
MSE01-082423	24-Aug	13:56	2; 443	
MSE02-082423	24-Aug	14:10	2; 451	

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2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Laboratory Analysis Report

Job ID : 23090442

10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :
J310000400 / Hunters Point Shipyard, Parcel E RA Phase II

Report To :	Client Name:	GES - ASRC Industrial	Total Number of Pages:	9
	Attn:	[redacted]	P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	09/06/2023 10:20
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

A&B Labs has analyzed the following samples...

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-082823	8/28/2023 15:27	Cassette	23090442.01
MSE02-082823	8/28/2023 15:38	Cassette	23090442.02
MSE01-082923	8/29/2023 15:28	Cassette	23090442.03
MSE02-082923	8/29/2023 15:41	Cassette	23090442.04
MSE01-083023	8/30/2023 15:25	Cassette	23090442.05
MSE02-083023	8/30/2023 15:39	Cassette	23090442.06
MSE01-083123	8/31/2023 13:42	Cassette	23090442.07
MSE02-083123	8/31/2023 13:56	Cassette	23090442.08

[redacted]

Released By: [redacted]

Title: Vice President Operations

Analyst: [redacted]

ANALYSIS OF AIRBORNE FIBER SAMPLING
SAMPLING PERFORMED BY CLIENT
ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.
AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080

Date 9/11/2023

Job ID : 23090442
Analytical Method: NIOSH 7400-I3-June2019

Client: GES - ASRC Industrial Project: J310000400 / Hunters Point Shipyard, Parcel E RA Phase II Attn: [redacted]

A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
23090442.01	MSE01-082823	08/28/2023	Area	2			531	1062	100	9.0	11.465	0.004		09/08/23	[redacted]
23090442.02	MSE02-082823	08/28/2023	Area	2			534	1068	100	7.0	8.917	0.003		09/08/23	
23090442.03	MSE01-082923	08/29/2023	Area	2			534	1068	100	8.5	10.828	0.004		09/08/23	
23090442.04	MSE02-082923	08/29/2023	Area	2			538	1076	100	6	7.643	0.003		09/08/23	
23090442.05	MSE01-083023	08/30/2023	Area	2			538	1076	100	13.5	17.197	0.006		09/08/23	
23090442.06	MSE02-083023	08/30/2023	Area	2			545	1090	100	18.5	23.567	0.008		09/08/23	
23090442.07	MSE01-083123	08/31/2023	Area	2			434	868	100	5	6.369	< 0.003		09/08/23	
23090442.08	MSE02-083123	08/31/2023	Area	2			438	876	100	6.0	7.643	0.003		09/08/23	

Detection limit of this method is estimated at 7 f/mm2 (5.5 fibers per 100 fields)

Sr Value

(Fiber Range*; Sr Value): (5-20; Sr = 0.06), (20-50; Sr = 0.05), (50-100; Sr = 0.04), (>100; Sr = 0.04)

*Fiber Range = # of Fibers / 100 Counts

OUTR = Overload,Unable To Read

Intralaboratory Sr 5-20:0.06 20-50:0.04 50-100:0.02

Sample Condition Checklist

A&B JobID : **23090442**	Date Received : **09/06/2023**	Time Received : **10:20AM**
Client Name : **GES - ASRC Industrial**		
Temperature : **24.1°C**	Sample pH : **NA**	
Thermometer ID : **IR5**	pH Paper ID : **NA**	
Perservative :		

	Check Points	Yes	No	N/A
1.	**Cooler Seal present and signed.**	X		
2.	**Sample(s) in a cooler.**		X	
3.	**If yes, ice in cooler.**			X
4.	**Sample(s) received with chain-of-custody.**	X		
5.	**C-O-C signed and dated.**	X		
6.	**Sample(s) received with signed sample custody seal.**		X	
7.	**Sample containers arrived intact. (If No comment)**	X		
8.	**Matrix:** Water ☐ Soil ☐ Liquid ☐ Sludge ☐ Solid ☐ Cassette ☑ Tube ☐ Bulk ☐ Badge ☐ Food ☐ Other ☐			
9.	**Samples were received in appropriate container(s)**	X		
10.	**Sample(s) were received with Proper preservative**			X
11.	**All samples were tagged or labeled.**	X		
12.	**Sample ID labels match C-O-C ID's.**	X		
13.	**Bottle count on C-O-C matches bottles found.**	X		
14.	**Sample volume is sufficient for analyses requested.**	X		
15.	**Samples were received with in the hold time.**	X		
16.	**VOA vials completely filled.**			X
17.	**Sample accepted.**	X		
18.	**Has client been contacted about sub-out**			X

Comments : Include actions taken to resolve discrepancies/problem:

No cooler was received, however samples are received in a box with a custody seal. Cassette=Black Cassette. [redacted] 09/06/23

Brought by : FedEx

Received by : [redacted]

Check in by/date : [redacted] / 09/06/2023

ab-s005-0321

Job ID:23090442

09/08/2023 GES - ASRC Industrial ACH

COC ID # [redacted]090523ASBE

RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: Parcel E Asbestos
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Event: Parcel E Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos (1)	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-082823	A	08/28/2023	1527	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-082823	A	08/28/2023	1538		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

01A
02A

[redacted] 9/5/23

Turnaround Time: 7 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	9/5/23	1500	FedEx	9/5/23	1500	Shipping Date:09/05/23 / FEDEX 7731 0312 7017
FedEx	9/6/23	10:20				[redacted]ory: (Signature, Date, Time) & condition 9/6/23 10:20 24.1°C [redacted]

CHAIN-OF-CUSTODY RECORD

COC ID # [redacted]090523ASBE

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: Parcel E Asbestos
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Analytical Test Method: Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

Event: Parcel E Asbestos

	Sample ID	Matrix	Date	Time	Samp Init.	Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-082923	A	08/29/2023	1528	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-082923	A	08/29/2023	1541		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

03A
04A

[redacted] 9/5/23

Turnaround Time: 7 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	9/5/23	1500	FedEx	9/5/23	1500	Shipping Date:09/05/23 / FEDEX 7731 0312 7017
FCCA	9/6/23	10:20				[redacted]: (Signature, Date, Time) & condition 9/6/23 10:20 24.1°C [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

COC ID # [redacted]090523ASBE

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Event: Parcel E Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

Page 3 of 4

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1						
1	MSE01-083023	A	08/30/2023	1525	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-083023	A	08/30/2023	1539		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

[redacted] 9/5/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	9/5/23	1500	FedEx	9/5/23	1500	Shipping Date:09/05/23 / FEDEX 7731 0312 7017
FedEx	9/6/23	10:20				[redacted]y: *(Signature, Date, Time)* **& condition** 9/6/23 10:20 Good [redacted]

CHAIN-OF-CUSTODY RECORD

COC ID # [redacted]090523ASBE

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282

Project Name: Hunters Point Shipyard, Parcel E RA Phase [redacted]	Laboratory: A&B Labs	Event: Parcel E Asbestos
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Event: Parcel E Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-083123	A	08/31/2023	1342	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-083123	A	08/31/2023	1356		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

07A
08A

[redacted] 9/5/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	9/5/23	1500	FedEx	9/5/23	1500	Shipping Date:09/05/23 / FEDEX 7731 0312 7017
[redacted]	9/6/23	10:20	[redacted]			*(Signature, Date, Time)* & condition 9/6/23 10:20 24.1°C [redacted]

Project Name: Hunters Point Shipyard, Parcel E RA Phase II			Event: **Parcel E Asbestos**
Project Number: J310000400			
WBS Code: J310000400			
Sample ID	End Date	End Time	Flow Rate (L/min), Total Time (mins)
MSE01-082823	28-Aug	15:27	2; 531
MSE02-082823	28-Aug	15:38	2; 534
MSE01-082923	29-Aug	15:28	2; 534
MSE02-082923	29-Aug	15:41	2; 538
MSE01-083023	30-Aug	15:25	2; 538
MSE02-083023	30-Aug	15:39	2; 545
MSE01-083123	31-Aug	13:42	2; 434
MSE02-083123	31-Aug	13:56	2; 438

ORIGIN ID:JCCA [redacted]
200 FISHER STREET
SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 22AUG23
ACTWGT: 1.00 LB
CAD: 254128867/INET4640

BILL SENDER

TO [redacted]
A & B LABS
10100 EAST FREEWAY, SUITE 100
HOUSTON TX 77029
(713) 453-6060

INV
PO
DEPT

REF 31000.400.00.1804

583J5/7584/9AE3

FedEx Express

J233123072501uv

WED - 23 AUG 5:00P
STANDARD OVERNIGHT

TRK# 0201 7731 0312 7017

AB HBYA

77029 IAH
TX-US

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Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

September 21, 2023

[redacted]
AIS-GES, LLC
1501 W. FOUNTAINHEAD PKWY,
#550
TEMPE, AZ 85282

Laboratory Workorder ID: B221048

Client Project ID:	J310000400 PARCEL E HUNTERS PT
Received:	August 9, 2023
Reported:	August 18, 2023
Amended:	September 21, 2023

Attached are the results we obtained on the analysis of your samples submitted to Analytics. Any Chains-of-Custody associated by this sample group are enclosed. Air concentrations are calculated as a convenience to the client and the overall accuracy of this result depends on both the accuracy of the air volume and the amount found by analysis. Theoretical air volumes for passive monitors are calculated using the sampling time submitted and the manufacture's listed sampling rate for each compound. Results provided in this report relate only to the items tested.

For blanks and non-detects the results indicated with a '<' value represents the reporting limit for the analysis. Unless otherwise noted results are not corrected for blank values.

Unless the signature of the appropriate manager(s) appears on this report, this report should be considered PRELIMINARY and is subject to change.

We appreciate your confidence in allowing Analytics to be your testing laboratory. Any questions regarding this report can be addressed by calling our customer services department at (800) 888-8061.

[redacted], CIH
Technical Director

Enclosures

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

AIS-GES, LLC
1501 W. FOUNTAINHEAD PKWY, #550
TEMPE, AZ 85282

Customer: PARCELE1
Attention: [redacted]
PO Number J310000400-016

Date Received: 08/09/23
Client Project ID J310000400 PARCEL E HUNTERS PT

Lab ID: B221048001 Sample ID: PM041223-01 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/01/2023 6:25 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/10/23	1669690 L	1000 ug			46700 ug	28 ug/M3

Lab ID: B221048002 Sample ID: TSP041223-02 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/01/2023 6:25 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/10/23	1765160 L	1000 ug			93600 ug	53 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	08/18/23	1765160 L	98 ug			346 ug	0.196 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	08/18/23	1765160 L	14 ug			17.7 ug	0.01 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	08/18/23	1765160 L	98 ug			< 98 ug	< 0.0555 ug/M3

Lab ID: B221048003 Sample ID: PM041223-03 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/01/2023 6:34 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/10/23	1735600 L	1000 ug			34200 ug	20 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B221048004 Sample ID: TSP041223-04 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/01/2023 6:34 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/10/23	1787100 L	1000 ug			70400 ug	39 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	08/18/23	1787100 L	98 ug			129 ug	0.0722 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	08/18/23	1787100 L	14 ug			< 14 ug	< 0.0078 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	08/18/23	1787100 L	98 ug			< 98 ug	< 0.0548 ug/M3

Lab ID: B221048005 Sample ID: PM041223-05 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/02/2023 6:19 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/10/23	1756100 L	1000 ug			23600 ug	13 ug/M3

Lab ID: B221048006 Sample ID: TSP041223-06 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/02/2023 6:19 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/10/23	1759280 L	1000 ug			55800 ug	32 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	08/18/23	1759280 L	98 ug			435 ug	0.2473 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	08/18/23	1759280 L	14 ug			18.2 ug	0.0103 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	08/18/23	1759280 L	98 ug			< 98 ug	< 0.0557 ug/M3

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Final Report

Lab ID: B221048007 Sample ID: PM041223-07 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/02/2023 6:29 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/10/23	1726620 L	1000 ug			12500 ug	7 ug/M3

Lab ID: B221048008 Sample ID: TSP041223-08 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/02/2023 6:29 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/10/23	1718790 L	1000 ug			34000 ug	20 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	08/18/23	1718790 L	98 ug			< 98 ug	< 0.057 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	08/18/23	1718790 L	14 ug			< 14 ug	< 0.0081 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	08/18/23	1718790 L	98 ug			< 98 ug	< 0.057 ug/M3

Lab ID: B221048009 Sample ID: PM041223-09 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/03/2023 6:24 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/10/23	1767720 L	1000 ug			32600 ug	18 ug/M3

Lab ID: B221048010 Sample ID: TSP041223-10 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/03/2023 6:24 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/10/23	1769910 L	1000 ug			88700 ug	50 ug/M3

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Lab ID: B221048010 Sample ID: TSP041223-10 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/03/2023 6:24 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Copper	40CFR50App.G Mod./EPA 6010B	08/18/23	1769910 L	98 ug			429 ug	0.2424 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	08/18/23	1769910 L	14 ug			31.5 ug	0.0178 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	08/18/23	1769910 L	98 ug			< 98 ug	< 0.0554 ug/M3

Lab ID: B221048011 Sample ID: PM041223-11 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/03/2023 6:34 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/10/23	1742590 L	1000 ug			11300 ug	6 ug/M3

Lab ID: B221048012 Sample ID: TSP041223-12 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/03/2023 6:34 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/10/23	1739010 L	1000 ug			29800 ug	17 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	08/18/23	1739010 L	98 ug			< 98 ug	< 0.0564 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	08/18/23	1739010 L	14 ug			< 14 ug	< 0.0081 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	08/18/23	1739010 L	98 ug			< 98 ug	< 0.0564 ug/M3

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Lab ID: B221048013 Sample ID: PM041223-13 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/03/2023 3:08 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/11/23	603150 L	1000 ug			11000 ug	18 ug/M3

Lab ID: B221048014 Sample ID: TSP041223-14 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/03/2023 3:08 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/11/23	641800 L	1000 ug			34300 ug	53 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	08/18/23	641800 L	98 ug			164 ug	0.2555 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	08/18/23	641800 L	14 ug			17.1 ug	0.0266 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	08/18/23	641800 L	98 ug			< 98 ug	< 0.1527 ug/M3

Lab ID: B221048015 Sample ID: PM041223-15 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/03/2023 2:57 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/11/23	602790 L	1000 ug			2400 ug	4 ug/M3

Lab ID: B221048016 Sample ID: TSP041223-16 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/03/2023 2:57 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/11/23	602790 L	1000 ug			7200 ug	12 ug/M3

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Lab ID: B221048016 Sample ID: TSP041223-16 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/03/2023 2:57 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Copper	40CFR50App.G Mod./EPA 6010B	08/18/23	602790 L	98 ug			< 98 ug	< 0.1626 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	08/18/23	602790 L	14 ug			< 14 ug	< 0.0232 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	08/18/23	602790 L	98 ug			< 98 ug	< 0.1626 ug/M3

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Ashland, Va 23005
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Final Report

General Laboratory Comments

Abbreviations:
ug = micrograms; mg=milligrams; g = grams, ppm=parts per million (volume), ppb = parts per billion (volume), mg/M3=milligrams per cubic meter of air, ug/M3=micrograms per cubic meter of air; Min=minutes, Qual=Qualifiers

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]080823AIRE

B221048

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1	1	1						
1	PM041223-01	A	08/01/2023	0625	[redacted]	X			AMSE1	N1	0.00	0.00	1	
2	TSP041223-02	A	08/01/2023	0625			X	X	AMSE1	N1	0.00	0.00	1	
3	PM041223-03	A	08/01/2023	0634		X			AMSE2	N1	0.00	0.00	1	
4	TSP041223-04	A	08/01/2023	0634			X	X	AMSE2	N1	0.00	0.00	1	

8/8/23

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	8/8/23	1300	FedEx	8/8/23	1300
			[redacted]	8/9/23	11:40

Shipping Date / Carrier / Airbill Number

Shipping Date: 8/8/2023 / FEDEX / 7728 4597 3006

Received by Laboratory: *(Signature, Date, Time)* **& condition**

[redacted] 8/9/23 11:40 Custody Seals Intact

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]080823AIRE

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1	1	1						
1	PM041223-05	A	08/02/2023	0619	[redacted]	X			AMSE1	N1	0.00	0.00	1	
2	TSP041223-06	A	08/02/2023	0619			X	X	AMSE1	N1	0.00	0.00	1	
3	PM041223-07	A	08/02/2023	0629		X			AMSE2	N1	0.00	0.00	1	
4	TSP041223-08	A	08/02/2023	0629			X	X	AMSE2	N1	0.00	0.00	1	

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	8/8/23	1300	FedEx	8/8/23	1300
			[redacted]	8/9/23	11:40

Shipping Date / Carrier / Airbill Number

Shipping Date: 8/8/2023 / FEDEX / 7728 4597 3006

Received by Laboratory: *(Signature, Date, Time)* **& condition**

[redacted] 8/9/23 Custody 11:40 Seals Intact

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]080823AIRE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

	Event: Parcel E Phase 2 Air Monitoring				Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu											
						1	1	1											
	Sample ID	Matrix	Date	Time	Samp Init.										Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	PM041223-09	A	08/03/2023	0624	[redacted]	X			[redacted]						AMSE1	N1	0.00	0.00	1	
2	TSP041223-10	A	08/03/2023	0624			X	X							AMSE1	N1	0.00	0.00	1	
3	PM041223-11	A	08/03/2023	0634		X									AMSE2	N1	0.00	0.00	1	
4	TSP041223-12	A	08/03/2023	0634			X	X							AMSE2	N1	0.00	0.00	1	

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	8/8/23	1300	FedEx	8/8/23	1300
			[redacted]	8/9/23	11:40

Shipping Date / Carrier / Airbill Number

Shipping Date: 8/8/2023 / FEDEX / 7728 4597 3006

Received by Laboratory: *(Signature, Date, Time)* **& condition**

[redacted] 8/9/23 11:40 Custody Seals Intact

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]080823AIRE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
	Analytical Test Method					1	1	1						
1	PM041223-13	A	08/03/2023	1508	[redacted]	X			AMSE1	N1	0.00	0.00	1	
2	TSP041223-14	A	08/03/2023	1508			X	X	AMSE1	N1	0.00	0.00	1	
3	PM041223-15	A	08/03/2023	1457		X			AMSE2	N1	0.00	0.00	1	
4	TSP041223-16	A	08/03/2023	1457			X	X	AMSE2	N1	0.00	0.00	1	

Turnaround Time: 5 days

Relinquished by: *(Signature)*	**Date**	**Time**	**Received by:** *(Signature)*	**Date**	**Time**
[redacted]	8/8/23	1300	Fedex	8/8/23	1300
[redacted]			[redacted]	8/9/23	11:40

Shipping Date / Carrier / Airbill Number

Shipping Date: 8/8/2023 / FEDEX / 7728 4597 3006

Received by Laboratory: *(Signature, Date, Time)* **& condition**

[redacted] 8/9/23 11:40 Custody Seals Intact

COC # [redacted]080823AIRE

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	
WBS Code: J310000400-016	

	Sample ID	Matrix	Date	Time	Comments
1	PM041223-01	A	08/01/2023	0625	VOLUME (M3): 1766.82
2	TSP041223-02	A	08/01/2023	0625	VOLUME (M3): 1668.11
3	PM041223-03	A	08/01/2023	0634	VOLUME (M3): 1735.60
4	TSP041223-04	A	08/01/2023	0634	VOLUME (M3): 1787.10
5	PM041223-05	A	08/02/2023	0619	VOLUME (M3): 1756.10
6	TSP041223-06	A	08/02/2023	0619	VOLUME (M3): 1662.57
7	PM041223-07	A	08/02/2023	0629	VOLUME (M3): 1726.62
8	TSP041223-08	A	08/02/2023	0629	VOLUME (M3): 1718.79
9	PM041223-09	A	08/03/2023	0624	VOLUME (M3): 1767.72
10	TSP041223-10	A	08/03/2023	0624	VOLUME (M3): 1672.63
11	PM041223-11	A	08/03/2023	0634	VOLUME (M3): 1742.59
12	TSP041223-12	A	08/03/2023	0634	VOLUME (M3): 1739.01
13	PM041223-13	A	08/03/2023	1508	VOLUME (M3): 638.24
14	TSP041223-14	A	08/03/2023	1508	VOLUME (M3): 606.52
15	PM041223-15	A	08/03/2023	1457	VOLUME (M3): 602.79
16	TSP041223-16	A	08/03/2023	1457	VOLUME (M3): 602.79

Sample ID	Cubic Meter	Volume (L)
PM041223-01	1766.82	1766820
TSP041223-02	1668.11	1668110
PM041223-03	1735.6	1735600
TSP041223-04	1787.1	1787100
PM041223-05	1756.1	1756100
TSP041223-06	1662.57	1662570
PM041223-07	1726.62	1726620
TSP041223-08	1718.79	1718790
PM041223-09	1767.72	1767720
TSP041223-10	1672.63	1672630
PM041223-11	1742.59	1742590
TSP041223-12	1739.01	1739010
PM041223-13	638.24	638240
TSP041223-14	606.52	606520
PM041223-15	602.79	602790
TSP041223-16	602.79	602790
		0
		0
		0

TOTAL VOLUME Revisions

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2							
Project Number: J310000400							
WBS Code: J310000400-016							
Event: Parcel E Phase 2 Air Monitoring							
	COCID	SDG Num	Sample ID	Matrix	Date	Time	Comments
1	[redacted]080123AIRE	B214-065	PM041823-69	A	07/25/2023	0623	VOLUME (M3): 1640.65
2	[redacted]080123AIRE	B214-065	TSP041823-70	A	07/25/2023	0623	VOLUME (M3): 1772.60
3	[redacted]080123AIRE	B214-065	PM042123-01	A	07/26/2023	0623	VOLUME (M3): 1669.09
4	[redacted]080123AIRE	B214-065	TSP042123-02	A	07/26/2023	0623	VOLUME (M3): 1770.07
5	[redacted]080123AIRE	B214-065	PM042123-05	A	07/27/2023	0629	VOLUME (M3): 1674.22
6	[redacted]080123AIRE	B214-065	TSP042123-06	A	07/27/2023	0629	VOLUME (M3): 1777.90
7	[redacted]080123AIRE	B214-065	PM042123-09	A	07/27/2023	1452	VOLUME (M3): 577.36
8	[redacted]080123AIRE	B214-065	TSP042123-10	A	07/27/2023	1452	VOLUME (M3): 613.84
9	[redacted]080823AIRE	B221-048	PM041223-01	A	8/1/2023	625	VOLUME (M3): 1669.69
10	[redacted]080823AIRE	B221-048	TSP041223-02	A	8/1/2023	625	VOLUME (M3): 1765.16
11	[redacted]080823AIRE	B221-048	PM041223-05	A	8/2/2023	619	VOLUME (M3):1756.10
12	[redacted]080823AIRE	B221-048	TSP041223-06	A	8/2/2023	619	VOLUME (M3): 1759.28
13	[redacted]080823AIRE	B221-048	PM041223-09	A	8/3/2023	624	VOLUME (M3): 1767.72
14	[redacted]080823AIRE	B221-048	TSP041223-10	A	8/3/2023	624	VOLUME (M3): 1769.91
15	[redacted]080823AIRE	B221-048	PM041223-13	A	8/3/2023	1508	VOLUME (M3): 603.15
16	[redacted]080823AIRE	B221-048	TSP041223-14	A	8/3/2023	1508	VOLUME (M3): 641.80
17	[redacted]081523AIRE	B228-073	PM041223-35	A	8/8/2023	626	VOLUME (M3): 1665.79
18	[redacted]081523AIRE	B228-073	TSP041223-36	A	8/8/2023	626	VOLUME (M3): 1764.08
19	[redacted]081523AIRE	B228-073	PM041623-01	A	8/9/2023	630	VOLUME (M3): 1685.06
20	[redacted]081523AIRE	B228-073	TSP041623-02	A	8/9/2023	630	VOLUME (M3): 1784.56
21	[redacted]081523AIRE	B228-073	PM041623-05	A	8/10/2023	624	VOLUME (M3): 1672.03

TOTAL VOLUME Revisions

22	[redacted]081523AIRE	B228-073	TSP041623-06	A	8/10/2023	624	VOLUME (M3): 1768.84
23	[redacted]081523AIRE	B228-073	PM041623-09	A	8/10/2023	1333	VOLUME (M3): 488.84
24	[redacted]081523AIRE	B228-073	TSP041623-10	A	8/10/2023	1333	VOLUME (M3): 522.60
25	[redacted]082223AIRE	B235-033	PM012323-13	A	8/15/2023	629	VOLUME (M3): 1617.57
26	[redacted]082223AIRE	B235-033	TSP032823-01	A	8/15/2023	629	VOLUME (M3): 1710.05
27	[redacted]082223AIRE	B235-033	PM122022-03	A	8/16/2023	629	VOLUME (M3): 1644.76
28	[redacted]082223AIRE	B235-033	TSP042123-83	A	8/16/2023	629	VOLUME (M3): 1772.88
29	[redacted]082223AIRE	B235-033	PM032823-04	A	8/17/2023	656	VOLUME (M3): 1720.44
30	[redacted]082223AIRE	B235-033	TSP032823-05	A	8/17/2023	656	VOLUME (M3): 1813.69
31	[redacted]082223AIRE	B235-033	PM032823-08	A	8/17/2023	1511	VOLUME (M3): 576.64
32	[redacted]082223AIRE	B235-033	TSP032823-09	A	8/17/2023	1511	VOLUME (M3): 611.43
35	[redacted]082923AIRE		PM032823-12	A	8/22/2023	628	VOLUME (M3): 1699.12
36	[redacted]082923AIRE		TSP032823-13	A	8/22/2023	628	VOLUME (M3): 1791.30
37	[redacted]082923AIRE		PM042123-86	A	8/23/2023	634	VOLUME (M3): 1695.79
38	[redacted]082923AIRE		TSP042123-87	A	8/23/2023	634	VOLUME (M3): 1790.63
39	[redacted]082923AIRE		PM042123-90	A	8/24/2023	634	VOLUME (M3): 1692.31
40	[redacted]082923AIRE		TSP042123-91	A	8/24/2023	634	VOLUME (M3): 1788.28
41	[redacted]082923AIRE		PM032823-08	A	8/24/2023	1354	VOLUME (M3): 515.18
42	[redacted]082923AIRE		TSP032823-09	A	8/24/2023	1354	VOLUME (M3): 542.31

Sample ID	Cubic Meter	Volume (L)
PM041823-69	1640.65	1640650
TSP041823-70	1772.6	1772600
PM042123-01	1669.09	1669090
TSP042123-02	1770.07	1770070
PM042123-05	1674.22	1674220
TSP042123-06	1777.9	1777900
PM042123-09	577.36	577360
TSP042123-10	613.84	613840
PM041223-01	1669.69	1669690
TSP041223-02	1765.16	1765160
PM041223-05	1756.1	1756100
TSP041223-06	1759.28	1759280
PM041223-09	1767.72	1767720
TSP041223-10	1769.91	1769910
PM041223-13	603.15	603150
TSP041223-14	641.8	641800
PM041223-35	1665.79	1665790
TSP041223-36	1764.08	1764080
PM041623-01	1685.06	1685060
TSP041623-02	1784.56	1784560
PM041623-05	1672.03	1672030
TSP041623-06	1768.84	1768840
PM041623-09	488.84	488840
TSP041623-10	522.6	522600
PM012323-13	1617.57	1617570
TSP032823-01	1710.05	1710050
PM122022-03	1644.76	1644760
TSP042123-83	1772.88	1772880
PM032823-04	1720.44	1720440
TSP032823-05	1813.69	1813690
PM032823-08	576.64	576640
TSP032823-09	611.43	611430
PM032823-12	1699.12	1699120
TSP032823-13	1791.3	1791300
PM042123-86	1695.79	1695790
TSP042123-87	1790.63	1790630
PM042123-90	1692.31	1692310
TSP042123-91	1788.28	1788280
PM032823-08	515.18	515180
TSP032823-09	542.31	542310
		0
		0
		0

Eurofins Analytics, LLC
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Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA-LAP, LLC Accreditation ID 100531

Built Environment Testing
Analytics

Level 2 QA/QC Summary Report

Work Order #: B221048

Report Date: 9/21/2023

Batch ID:	**ICP230811B**	Analysis Date:	8/18/2023
Media::	**8X10PW GFF**	Preparation Date	8/14/2023

Blank Spike Results

		Percent Recovery				
QC ID	Parameter	LCS	LCSD	Acceptance	RPD	Limit
LCS ICP230811B	Copper	92	95	75-125	2.6	20
LCS ICP230811B	Lead	77	78	75-125	0.8	20
LCS ICP230811B	Manganese	88	89	75-125	0.7	20

Method Blank Results

QC ID	Parameter	Result	RL	Units
LMB ICP230811B	Copper	< 98	98	ug
LMB ICP230811B	Lead	< 14	14	ug
LMB ICP230811B	Manganese	< 98	98	ug

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September 21, 2023

[redacted]
AIS-GES, LLC
1501 W. FOUNTAINHEAD PKWY,
#550
TEMPE, AZ 85282

Laboratory Workorder ID: B228073

Client Project ID:	J310000400 PARCEL E HUNTERS PT
Received:	August 16, 2023
Reported:	August 22, 2023
Amended:	September 21, 2023

Attached are the results we obtained on the analysis of your samples submitted to Analytics. Any Chains-of-Custody associated by this sample group are enclosed. Air concentrations are calculated as a convenience to the client and the overall accuracy of this result depends on both the accuracy of the air volume and the amount found by analysis. Theoretical air volumes for passive monitors are calculated using the sampling time submitted and the manufacture's listed sampling rate for each compound. Results provided in this report relate only to the items tested.

For blanks and non-detects the results indicated with a '<' value represents the reporting limit for the analysis. Unless otherwise noted results are not corrected for blank values.

Unless the signature of the appropriate manager(s) appears on this report, this report should be considered PRELIMINARY and is subject to change.

We appreciate your confidence in allowing Analytics to be your testing laboratory. Any questions regarding this report can be addressed by calling our customer services department at (800) 888-8061.

[redacted]
[redacted] CIH
Technical Director

Enclosures

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
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Final Report

AIS-GES, LLC
1501 W. FOUNTAINHEAD PKWY, #550
TEMPE, AZ 85282

Customer: PARCELE1
Attention: [redacted]
PO Number J310000400-016

Date Received: 08/16/23
Client Project ID J310000400 PARCEL E HUNTERS PT

Lab ID: B228073001 Sample ID: PM041223-35 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/08/2023 6:26 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/17/23	1665790 L	1000 ug			51000 ug	31 ug/M3

Lab ID: B228073002 Sample ID: TSP041223-36 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/08/2023 6:26 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/17/23	1764080 L	1000 ug			105000 ug	60 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	08/21/23	1764080 L	98 ug			420.9 ug	0.2386 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	08/21/23	1764080 L	14 ug			36.92 ug	0.0209 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	08/21/23	1764080 L	98 ug			< 98 ug	< 0.0556 ug/M3

Lab ID: B228073003 Sample ID: PM041223-37 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/08/2023 6:35 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/17/23	1730020 L	1000 ug			30100 ug	17 ug/M3

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AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B228073004 Sample ID: TSP041223-38 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/08/2023 6:35 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/17/23	1730760 L	1000 ug			63600 ug	37 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	08/21/23	1730760 L	98 ug			293.5 ug	0.1696 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	08/21/23	1730760 L	14 ug			< 14 ug	< 0.0081 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	08/21/23	1730760 L	98 ug			< 98 ug	< 0.0566 ug/M3

Lab ID: B228073005 Sample ID: PM041623-01 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/09/2023 6:30 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/17/23	1685060 L	1000 ug			23300 ug	14 ug/M3

Lab ID: B228073006 Sample ID: TSP041623-02 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/09/2023 6:30 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/17/23	1784560 L	1000 ug			65400 ug	37 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	08/21/23	1784560 L	98 ug			577.4 ug	0.3236 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	08/21/23	1784560 L	14 ug			146.6 ug	0.0821 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	08/21/23	1784560 L	98 ug			< 98 ug	< 0.0549 ug/M3

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Final Report

Lab ID: B228073007 Sample ID: PM041623-03 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/09/2023 6:41 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/17/23	1753640 L	1000 ug			9000 ug	5 ug/M3

Lab ID: B228073008 Sample ID: TSP041623-04 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/09/2023 6:41 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/17/23	1752900 L	1000 ug			27400 ug	16 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	08/21/23	1752900 L	98 ug			227 ug	0.1295 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	08/21/23	1752900 L	14 ug			15.02 ug	0.0086 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	08/21/23	1752900 L	98 ug			< 98 ug	< 0.0559 ug/M3

Lab ID: B228073009 Sample ID: PM041623-05 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/10/2023 6:24 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/17/23	1672030 L	1000 ug			31100 ug	19 ug/M3

Lab ID: B228073010 Sample ID: TSP041623-06 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/10/2023 6:24 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/17/23	1768840 L	1000 ug			79500 ug	45 ug/M3

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Final Report

Lab ID: B228073010 Sample ID: TSP041623-06 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/10/2023 6:24 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Copper	40CFR50App.G Mod./EPA 6010B	08/21/23	1768840 L	98 ug			557.3 ug	0.3151 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	08/21/23	1768840 L	14 ug			32.45 ug	0.0183 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	08/21/23	1768840 L	98 ug			< 98 ug	< 0.0554 ug/M3

Lab ID: B228073011 Sample ID: PM041623-07 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/10/2023 6:35 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/17/23	1734910 L	1000 ug			10100 ug	6 ug/M3

Lab ID: B228073012 Sample ID: TSP041623-08 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/10/2023 6:35 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/17/23	1735380 L	1000 ug			29400 ug	17 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	08/21/23	1735380 L	98 ug			184 ug	0.106 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	08/21/23	1735380 L	14 ug			< 14 ug	< 0.0081 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	08/21/23	1735380 L	98 ug			< 98 ug	< 0.0565 ug/M3

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Lab ID: B228073013 Sample ID: PM041623-09 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/10/2023 1:33 PM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/17/23	488840	L	1000 ug			8100 ug	0 mg/M3

Lab ID: B228073014 Sample ID: TSP041623-10 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/10/2023 1:33 PM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/17/23	522600	L	1000 ug			20500 ug	39 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	08/21/23	522600	L	98 ug			235.6 ug	0.4508 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	08/21/23	522600	L	14 ug			< 14 ug	< 0.0268 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	08/21/23	522600	L	98 ug			< 98 ug	< 0.1875 ug/M3

Lab ID: B228073015 Sample ID: PM041623-11 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/10/2023 1:43 PM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/17/23	515160	L	1000 ug			1900 ug	4 ug/M3

Lab ID: B228073016 Sample ID: TSP041623-12 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/10/2023 1:43 PM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/17/23	513770	L	1000 ug			9900 ug	19 ug/M3

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Final Report

Lab ID: B228073016 Sample ID: TSP041623-12 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/10/2023 1:43 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Copper	40CFR50App.G Mod./EPA 6010B	08/21/23	513770 L	98 ug			< 98 ug	< 0.1907 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	08/21/23	513770 L	14 ug			< 14 ug	< 0.0272 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	08/21/23	513770 L	98 ug			< 98 ug	< 0.1907 ug/M3

Eurofins Analytics, LLC
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Ashland, Va 23005
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Final Report

General Laboratory Comments

Abbreviations:
ug = micrograms; mg=milligrams; g = grams, ppm=parts per million (volume), ppb = parts per billion (volume), mg/M3=milligrams per cubic meter of air, ug/M3=micrograms per cubic meter of air; Min=minutes, Qual=Qualifiers

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]081523AIRE

B228073

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
	Analytical Test Method					**1**	**1**	**1**						
1	PM041223-35	A	08/08/2023	0626	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP041223-36	A	08/08/2023	0626			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM041223-37	A	08/08/2023	0635		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP041223-38	A	08/08/2023	0635			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	8/15/23	1300	Fedex	8/15/23	1300
			[redacted]	8/16/23	1140

Shipping Date / Carrier / Airbill Number

Shipping Date: 8/15/2023 / FEDEX / 7728 6117 4809

ory: *(Signature, Date, Time)* **& condition**

[redacted] 8/16/23 1140 CUSTODY SEAL INTACT [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]081523AIRE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1	1	1						
1	PM041623-01	A	08/09/2023	0630	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP041623-02	A	08/09/2023	0630			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM041623-03	A	08/09/2023	0641		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP041623-04	A	08/09/2023	0641			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

[redacted] 8/15/23

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	8/15/23	1300	Fedex	8/15/23	1300
			[redacted]	8/16/23	1140

Shipping Date / Carrier / Airbill Number

Shipping Date: 8/15/2023 / FEDEX / 7728 6117 4809

Received by Laboratory: *(Signature, Date, Time)* **& condition**

[redacted] 8/16/23 1140 Custody Seal Intact [redacted]

CHAIN-OF-CUSTODY RECORD

[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]081523AIRE

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1	1	1						
1	PM041623-05	A	08/10/2023	0624	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP041623-06	A	08/10/2023	0624			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM041623-07	A	08/10/2023	0635		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP041623-08	A	08/10/2023	0635			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	8/15/23	1300	FedEx	8/15/23	1300
			[redacted]	8/16/23	1140

Shipping Date / Carrier / Airbill Number

Shipping Date: 8/15/2023 / FEDEX / 7728 6117 4809

Received by Laboratory: *(Signature, Date, Time)* **& condition**

[redacted] 8/16/23 1146 CUSTODY SEAL INTACT [redacted]

CHAIN-OF-CUSTODY RECORD

[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]081523AIRE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1	1	1						
1	PM041623-09	A	08/10/2023	1333	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP041623-10	A	08/10/2023	1333			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM041623-11	A	08/10/2023	1343		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP041623-12	A	08/10/2023	1343			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	8/15/23	1720	Fedex	8/15/23	1300
			[redacted]	8/16/23	1140

Shipping Date / Carrier / Airbill Number

Shipping Date: 8/15/2023 / FEDEX / 7728 6117 4809

Received by Laboratory: *(Signature, Date, Time)* **& condition**

[redacted] 8/16/23 1140 custody seal intact [redacted]

COC # [redacted]081523AIRE

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	
WBS Code: J310000400-016	

	Sample ID	Matrix	Date	Time	Comments
1	PM041223-35	A	08/08/2023	0626	VOLUME (M3): 1762.63
2	TSP041223-36	A	08/08/2023	0626	VOLUME (M3): 1667.15
3	PM041223-37	A	08/08/2023	0635	VOLUME (M3): 1730.02
4	TSP041223-38	A	08/08/2023	0635	VOLUME (M3): 1730.76
5	PM041623-01	A	08/09/2023	0630	VOLUME (M3): 1783.07
6	TSP041623-02	A	08/09/2023	0630	VOLUME (M3): 1686.46
7	PM041623-03	A	08/09/2023	0641	VOLUME (M3): 1753.64
8	TSP041623-04	A	08/09/2023	0641	VOLUME (M3): 1752.90
9	PM041623-05	A	08/10/2023	0624	VOLUME (M3): 1769.28
10	TSP041623-06	A	08/10/2023	0624	VOLUME (M3): 1671.61
11	PM041623-07	A	08/10/2023	0635	VOLUME (M3): 1734.91
12	TSP041623-08	A	08/10/2023	0635	VOLUME (M3): 1735.38
13	PM041623-09	A	08/10/2023	1333	VOLUME (M3): 517.28
14	TSP041623-10	A	08/10/2023	1333	VOLUME (M3): 493.86
15	PM041623-11	A	08/10/2023	1343	VOLUME (M3): 515.16
16	TSP041623-12	A	08/10/2023	1343	VOLUME (M3): 513.77

Sample ID	Cubic Meter	Volume (L)
PM041223-35	1762.63	1762630
TSP041223-36	1667.15	1667150
PM041223-37	1730.02	1730020
TSP041223-38	1730.76	1730760
PM041623-01	1783.07	1783070
TSP041623-02	1686.46	1686460
PM041623-03	1753.64	1753640
TSP041623-04	1752.9	1752900
PM041623-05	1769.28	1769280
TSP041623-06	1671.61	1671610
PM041623-07	1734.91	1734910
TSP041623-08	1735.38	1735380
PM041623-09	517.28	517280
TSP041623-10	493.86	493860
PM041623-11	515.16	515160
TSP041623-12	513.77	513770
		0
		0
		0
		0
		0
		0
		0
		0

TOTAL VOLUME Revisions

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2

Project Number: J310000400

WBS Code: J310000400-016

Event: Parcel E Phase 2 Air Monitoring

	COCID	SDG Num	Sample ID	Matrix	Date	Time	Comments
1	[redacted]080123AIRE	B214-065	PM041823-69	A	07/25/2023	0623	VOLUME (M3): 1640.65
2	[redacted]080123AIRE	B214-065	TSP041823-70	A	07/25/2023	0623	VOLUME (M3): 1772.60
3	[redacted]080123AIRE	B214-065	PM042123-01	A	07/26/2023	0623	VOLUME (M3): 1669.09
4	[redacted]080123AIRE	B214-065	TSP042123-02	A	07/26/2023	0623	VOLUME (M3): 1770.07
5	[redacted]080123AIRE	B214-065	PM042123-05	A	07/27/2023	0629	VOLUME (M3): 1674.22
6	[redacted]080123AIRE	B214-065	TSP042123-06	A	07/27/2023	0629	VOLUME (M3): 1777.90
7	[redacted]080123AIRE	B214-065	PM042123-09	A	07/27/2023	1452	VOLUME (M3): 577.36
8	[redacted]080123AIRE	B214-065	TSP042123-10	A	07/27/2023	1452	VOLUME (M3): 613.84
9	[redacted]080823AIRE	B221-048	PM041223-01	A	8/1/2023	625	VOLUME (M3): 1669.69
10	[redacted]080823AIRE	B221-048	TSP041223-02	A	8/1/2023	625	VOLUME (M3): 1765.16
11	[redacted]080823AIRE	B221-048	PM041223-05	A	8/2/2023	619	VOLUME (M3):1756.10
12	[redacted]080823AIRE	B221-048	TSP041223-06	A	8/2/2023	619	VOLUME (M3): 1759.28
13	[redacted]080823AIRE	B221-048	PM041223-09	A	8/3/2023	624	VOLUME (M3): 1767.72
14	[redacted]080823AIRE	B221-048	TSP041223-10	A	8/3/2023	624	VOLUME (M3): 1769.91
15	[redacted]080823AIRE	B221-048	PM041223-13	A	8/3/2023	1508	VOLUME (M3): 603.15
16	[redacted]080823AIRE	B221-048	TSP041223-14	A	8/3/2023	1508	VOLUME (M3): 641.80
17	[redacted]081523AIRE	B228-073	PM041223-35	A	8/8/2023	626	VOLUME (M3): 1665.79
18	[redacted]081523AIRE	B228-073	TSP041223-36	A	8/8/2023	626	VOLUME (M3): 1764.08
19	[redacted]081523AIRE	B228-073	PM041623-01	A	8/9/2023	630	VOLUME (M3): 1685.06
20	[redacted]081523AIRE	B228-073	TSP041623-02	A	8/9/2023	630	VOLUME (M3): 1784.56
21	[redacted]081523AIRE	B228-073	PM041623-05	A	8/10/2023	624	VOLUME (M3): 1672.03

TOTAL VOLUME Revisions

22	[redacted]081523AIRE	B228-073	TSP041623-06	A	8/10/2023	624	VOLUME (M3): 1768.84
23	[redacted]081523AIRE	B228-073	PM041623-09	A	8/10/2023	1333	VOLUME (M3): 488.84
24	[redacted]081523AIRE	B228-073	TSP041623-10	A	8/10/2023	1333	VOLUME (M3): 522.60
25	[redacted]082223AIRE	B235-033	PM012323-13	A	8/15/2023	629	VOLUME (M3): 1617.57
26	[redacted]082223AIRE	B235-033	TSP032823-01	A	8/15/2023	629	VOLUME (M3): 1710.05
27	[redacted]082223AIRE	B235-033	PM122022-03	A	8/16/2023	629	VOLUME (M3): 1644.76
28	[redacted]082223AIRE	B235-033	TSP042123-83	A	8/16/2023	629	VOLUME (M3): 1772.88
29	[redacted]082223AIRE	B235-033	PM032823-04	A	8/17/2023	656	VOLUME (M3): 1720.44
30	[redacted]082223AIRE	B235-033	TSP032823-05	A	8/17/2023	656	VOLUME (M3): 1813.69
31	[redacted]082223AIRE	B235-033	PM032823-08	A	8/17/2023	1511	VOLUME (M3): 576.64
32	[redacted]082223AIRE	B235-033	TSP032823-09	A	8/17/2023	1511	VOLUME (M3): 611.43
35	[redacted]082923AIRE		PM032823-12	A	8/22/2023	628	VOLUME (M3): 1699.12
36	[redacted]082923AIRE		TSP032823-13	A	8/22/2023	628	VOLUME (M3): 1791.30
37	[redacted]082923AIRE		PM042123-86	A	8/23/2023	634	VOLUME (M3): 1695.79
38	[redacted]082923AIRE		TSP042123-87	A	8/23/2023	634	VOLUME (M3): 1790.63
39	[redacted]082923AIRE		PM042123-90	A	8/24/2023	634	VOLUME (M3): 1692.31
40	[redacted]082923AIRE		TSP042123-91	A	8/24/2023	634	VOLUME (M3): 1788.28
41	[redacted]082923AIRE		PM032823-08	A	8/24/2023	1354	VOLUME (M3): 515.18
42	[redacted]082923AIRE		TSP032823-09	A	8/24/2023	1354	VOLUME (M3): 542.31

Sample ID	Cubic Meter	Volume (L)
PM041823-69	1640.65	1640650
TSP041823-70	1772.6	1772600
PM042123-01	1669.09	1669090
TSP042123-02	1770.07	1770070
PM042123-05	1674.22	1674220
TSP042123-06	1777.9	1777900
PM042123-09	577.36	577360
TSP042123-10	613.84	613840
PM041223-01	1669.69	1669690
TSP041223-02	1765.16	1765160
PM041223-05	1756.1	1756100
TSP041223-06	1759.28	1759280
PM041223-09	1767.72	1767720
TSP041223-10	1769.91	1769910
PM041223-13	603.15	603150
TSP041223-14	641.8	641800
PM041223-35	1665.79	1665790
TSP041223-36	1764.08	1764080
PM041623-01	1685.06	1685060
TSP041623-02	1784.56	1784560
PM041623-05	1672.03	1672030
TSP041623-06	1768.84	1768840
PM041623-09	488.84	488840
TSP041623-10	522.6	522600
PM012323-13	1617.57	1617570
TSP032823-01	1710.05	1710050
PM122022-03	1644.76	1644760
TSP042123-83	1772.88	1772880
PM032823-04	1720.44	1720440
TSP032823-05	1813.69	1813690
PM032823-08	576.64	576640
TSP032823-09	611.43	611430
PM032823-12	1699.12	1699120
TSP032823-13	1791.3	1791300
PM042123-86	1695.79	1695790
TSP042123-87	1790.63	1790630
PM042123-90	1692.31	1692310
TSP042123-91	1788.28	1788280
PM032823-08	515.18	515180
TSP032823-09	542.31	542310
		0
		0
		0

Eurofins Analytics, LLC
10329 Stony Run Lane
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AIHA-LAP, LLC Accreditation ID 100531

Built Environment Testing
Analytics

Level 2 QA/QC Summary Report

Work Order #: B228073

Report Date: 9/21/2023

Batch ID:	**ICP230817C**	Analysis Date:	8/21/2023
Media::	**8X10PW GFF**	Preparation Date	8/18/2023

Blank Spike Results

		Percent Recovery				
QC ID	Parameter	LCS	LCSD	Acceptance	RPD	Limit
LCS ICP230817C	Copper	94	95	75-125	0.8	20
LCS ICP230817C	Lead	96	96	75-125	0.3	20
LCS ICP230817C	Manganese	99	100	75-125	0.4	20

Method Blank Results

QC ID	Parameter	Result	RL	Units
LMB ICP230817C	Copper	< 98	98	ug
LMB ICP230817C	Lead	< 14	14	ug
LMB ICP230817C	Manganese	< 98	98	ug

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September 21, 2023

[redacted]
AIS-GES, LLC
1501 W. FOUNTAINHEAD PKWY,
#550
TEMPE, AZ 85282

Laboratory Workorder ID: B235033

Client Project ID:	J310000400 PARCEL E HUNTERS PT
Received:	August 23, 2023
Reported:	August 31, 2023
Amended:	September 21, 2023

Attached are the results we obtained on the analysis of your samples submitted to Analytics. Any Chains-of-Custody associated by this sample group are enclosed. Air concentrations are calculated as a convenience to the client and the overall accuracy of this result depends on both the accuracy of the air volume and the amount found by analysis. Theoretical air volumes for passive monitors are calculated using the sampling time submitted and the manufacture's listed sampling rate for each compound. Results provided in this report relate only to the items tested.

For blanks and non-detects the results indicated with a '<' value represents the reporting limit for the analysis. Unless otherwise noted results are not corrected for blank values.

Unless the signature of the appropriate manager(s) appears on this report, this report should be considered PRELIMINARY and is subject to change.

We appreciate your confidence in allowing Analytics to be your testing laboratory. Any questions regarding this report can be addressed by calling our customer services department at (800) 888-8061.

[redacted]
[redacted] CIH
Technical Director

Enclosures

Eurofins Analytics, LLC
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Final Report

AIS-GES, LLC
1501 W. FOUNTAINHEAD PKWY, #550
TEMPE, AZ 85282

Customer: PARCELE1
Attention: [redacted]
PO Number J310000400-016

Date Received: 08/23/23
Client Project ID J310000400 PARCEL E HUNTERS PT

Lab ID: B235033001 Sample ID: PM012323-13 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/15/2023 6:29 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/24/23	1617570 L	1000 ug			53000 ug	33 ug/M3

Lab ID: B235033002 Sample ID: TSP032823-01 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/15/2023 6:29 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/24/23	1710050 L	1000 ug			133000 ug	78 ug/M3
Copper	40 CFR Part 50 Appendix G	08/31/23	1710050 L	98 ug			621 ug	0.363 ug/M3
Lead	40 CFR Part 50 Appendix G	08/31/23	1710050 L	14 ug			41.5 ug	0.024 ug/M3
Manganese	40 CFR Part 50 Appendix G	08/31/23	1710050 L	98 ug			104 ug	0.061 ug/M3

Lab ID: B235033003 Sample ID: PM032823-02 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/15/2023 6:48 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/24/23	1722590 L	1000 ug			14600 ug	8 ug/M3

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Final Report

Lab ID: B235033004 Sample ID: TSP032823-03 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/15/2023 6:48 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/24/23	1722230 L	1000 ug			39800 ug	23 ug/M3
Copper	40 CFR Part 50 Appendix G	08/31/23	1722230 L	98 ug			401 ug	0.233 ug/M3
Lead	40 CFR Part 50 Appendix G	08/31/23	1722230 L	14 ug			< 14 ug	< 0.008 ug/M3
Manganese	40 CFR Part 50 Appendix G	08/31/23	1722230 L	98 ug			< 98 ug	< 0.057 ug/M3

Lab ID: B235033005 Sample ID: PM122022-03 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/16/2023 6:29 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/24/23	1644760 L	1000 ug			35300 ug	21 ug/M3

Lab ID: B235033006 Sample ID: TSP042123-83 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/16/2023 6:29 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/24/23	1772880 L	1000 ug			91300 ug	51 ug/M3
Copper	40 CFR Part 50 Appendix G	08/31/23	1772880 L	98 ug			473 ug	0.267 ug/M3
Lead	40 CFR Part 50 Appendix G	08/31/23	1772880 L	14 ug			45.1 ug	0.025 ug/M3
Manganese	40 CFR Part 50 Appendix G	08/31/23	1772880 L	98 ug			< 98 ug	< 0.055 ug/M3

Lab ID: B235033007 Sample ID: PM042123-84 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/16/2023 6:39 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration

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Final Report

Lab ID: B235033007 Sample ID: PM042123-84 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/16/2023 6:39 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/24/23	1745750 L	1000 ug			13900 ug	8 ug/M3

Lab ID: B235033008 Sample ID: TSP042123-85 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/16/2023 6:39 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/24/23	1735230 L	1000 ug			38000 ug	22 ug/M3
Copper	40 CFR Part 50 Appendix G	08/31/23	1735230 L	98 ug			354 ug	0.204 ug/M3
Lead	40 CFR Part 50 Appendix G	08/31/23	1735230 L	14 ug			< 14 ug	< 0.008 ug/M3
Manganese	40 CFR Part 50 Appendix G	08/31/23	1735230 L	98 ug			< 98 ug	< 0.056 ug/M3

Lab ID: B235033009 Sample ID: PM032823-04 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/17/2023 6:56 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/24/23	1720440 L	1000 ug			18900 ug	11 ug/M3

Lab ID: B235033010 Sample ID: TSP032823-05 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/17/2023 6:56 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/24/23	1813690 L	1000 ug			49500 ug	27 ug/M3
Copper	40 CFR Part 50 Appendix G	08/31/23	1813690 L	98 ug			487 ug	0.269 ug/M3
Lead	40 CFR Part 50 Appendix G	08/31/23	1813690 L	14 ug			14.4 ug	0.008 ug/M3

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Lab ID: B235033010 Sample ID: TSP032823-05 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/17/2023 6:56 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Manganese	40 CFR Part 50 Appendix G	08/31/23	1813690 L	98 ug			< 98 ug	< 0.054 ug/M3

Lab ID: B235033011 Sample ID: PM032823-06 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/17/2023 7:05 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/24/23	1780900 L	1000 ug			19400 ug	11 ug/M3

Lab ID: B235033012 Sample ID: TSP032823-07 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/17/2023 7:05 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/24/23	1786370 L	1000 ug			60700 ug	34 ug/M3
Copper	40 CFR Part 50 Appendix G	08/31/23	1786370 L	98 ug			326 ug	0.183 ug/M3
Lead	40 CFR Part 50 Appendix G	08/31/23	1786370 L	14 ug			19 ug	0.011 ug/M3
Manganese	40 CFR Part 50 Appendix G	08/31/23	1786370 L	98 ug			< 98 ug	< 0.055 ug/M3

Lab ID: B235033013 Sample ID: PM032823-08 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/17/2023 3:11 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/24/23	576640 L	1000 ug			13400 ug	23 ug/M3

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Final Report

Lab ID: B235033014 Sample ID: TSP032823-09 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/17/2023 3:11 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/24/23	611430 L	1000 ug			28300 ug	46 ug/M3
Copper	40 CFR Part 50 Appendix G	08/31/23	611430 L	98 ug			181 ug	0.296 ug/M3
Lead	40 CFR Part 50 Appendix G	08/31/23	611430 L	14 ug			< 14 ug	< 0.023 ug/M3
Manganese	40 CFR Part 50 Appendix G	08/31/23	611430 L	98 ug			< 98 ug	< 0.16 ug/M3

Lab ID: B235033015 Sample ID: PM032823-10 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/17/2023 3:21 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/24/23	605120 L	1000 ug			8800 ug	15 ug/M3

Lab ID: B235033016 Sample ID: TSP032823-11 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/17/2023 3:21 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/24/23	602660 L	1000 ug			28700 ug	48 ug/M3
Copper	40 CFR Part 50 Appendix G	08/31/23	602660 L	98 ug			112 ug	0.187 ug/M3
Lead	40 CFR Part 50 Appendix G	08/31/23	602660 L	14 ug			< 14 ug	< 0.023 ug/M3
Manganese	40 CFR Part 50 Appendix G	08/31/23	602660 L	98 ug			< 98 ug	< 0.163 ug/M3

Eurofins Analytics, LLC
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Final Report

General Laboratory Comments

Abbreviations:
ug = micrograms; mg=milligrams; g = grams, ppm=parts per million (volume), ppb = parts per billion (volume), mg/M3=milligrams per cubic meter of air, ug/M3=micrograms per cubic meter of air; Min=minutes, Qual=Qualifiers

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]082223AIRE

B235033

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	PO[redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1	1	1						
1	PM012323-13	A	08/15/2023	0629	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP032823-01	A	08/15/2023	0629			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM032823-02	A	08/15/2023	0648		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP032823-03	A	08/15/2023	0648			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	8/22/23	1400	FedEx	8/22/23	1400
			[redacted]	8/23/23	11:11

Shipping Date / Carrier / Airbill Number

Shipping Date: 8/22/2023 / FEDEX / 7729 5629 6773

Received by Laboratory: *(Signature, Date, Time)* **& condition**

[redacted] 23/23 11:11 Custody Seals Intact

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]082223AIRE

GES
AN AECOM INDUSTRIAL COMPANY

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
					1	1	1						
PM122022-03	A	08/16/2023	0629	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
TSP042123-83	A	08/16/2023	0629			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
PM042123-84	A	08/16/2023	0639		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
TSP042123-85	A	08/16/2023	0639			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	8/22/23	1400	Fedex	8/22/23	1400
			[redacted]	8/23/23	11:11

Shipping Date / Carrier / Airbill Number

Shipping Date: 8/22/2023 / FEDEX / 7729 5629 6773

Received by Laboratory: *(Signature, Date, Time)* **& condition**

[redacted]
8/23/23 11:11 Custody Seals Intact

CHAIN-OF-CUSTODY RECORD

[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]082223AIRE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

						Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu										
	Event: Parcel E Phase 2 Air Monitoring						1	1	1										
	Sample ID	Matrix	Date	Time	Samp Init.											Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	PM032823-04	A	08/17/2023	0656	[redacted]		X			[redacted]						AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP032823-05	A	08/17/2023	0656				X	X							AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM032823-06	A	08/17/2023	0705			X									AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP032823-07	A	08/17/2023	0705				X	X							AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	**Date**	**Time**	**Received by: *(Signature)***	**Date**	**Time**
[redacted]	8/22/23	1400	FedEx	8/22/23	1400
			[redacted]	8/23/23	11:11

Shipping Date / Carrier / Airbill Number

Shipping Date: 8/22/2023 / FEDEX / 7729 5629 6773

Received by Laboratory: *(Signature, Date, Time)* **& condition**

[redacted] 8/23/23 Custody 11:11 Seals Intact

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]082223AIRE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1	1	1						
1	PM032823-08	A	08/17/2023	1511	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP032823-09	A	08/17/2023	1511			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM032823-10	A	08/17/2023	1521		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP032823-11	A	08/17/2023	1521			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	8/22/23	1400	FedEx	8/22/23	1400
			[redacted]	8/23/23	11:11

Shipping Date / Carrier / Airbill Number

Shipping Date: 8/22/2023 / FEDEX / 7729 5629 6773

Received by Laboratory: *(Signature, Date, Time)* **& condition**

[redacted] 8/23/23 11:11 Custody Seals Intact

COC # [redacted]082223AIRE

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	
WBS Code: J310000400-016	

	Sample ID	Matrix	Date	Time	Comments
1	PM012323-13	A	08/15/2023	0629	VOLUME (M3): 1711.61
2	TSP032823-01	A	08/15/2023	0629	VOLUME (M3): 1616.10
3	PM032823-02	A	08/15/2023	0648	VOLUME (M3): 1722.59
4	TSP032823-03	A	08/15/2023	0648	VOLUME (M3): 1722.23
5	PM122022-03	A	08/16/2023	0629	VOLUME (M3): 1740.42
6	TSP042123-83	A	08/16/2023	0629	VOLUME (M3): 1675.40
7	PM042123-84	A	08/16/2023	0639	VOLUME (M3): 1745.75
8	TSP042123-85	A	08/16/2023	0639	VOLUME (M3): 1735.23
9	PM032823-04	A	08/17/2023	0656	VOLUME (M3): 1820.48
10	TSP032823-05	A	08/17/2023	0656	VOLUME (M3): 1714.00
11	PM032823-06	A	08/17/2023	0705	VOLUME (M3): 1780.90
12	TSP032823-07	A	08/17/2023	0705	VOLUME (M3): 1786.37
13	PM032823-08	A	08/17/2023	1511	VOLUME (M3): 610.18
14	TSP032823-09	A	08/17/2023	1511	VOLUME (M3): 577.81
15	PM032823-10	A	08/17/2023	1521	VOLUME (M3): 605.12
16	TSP032823-11	A	08/17/2023	1521	VOLUME (M3): 602.66

Sample ID	Cubic Meter	Volume (L)
PM012323-13	1711.61	1711610
TSP032823-01	1616.1	1616100
PM032823-02	1722.59	1722590
TSP032823-03	1722.23	1722230
PM122022-03	1740.42	1740420
TSP042123-83	1675.4	1675400
PM042123-84	1745.75	1745750
TSP042123-85	1735.23	1735230
PM032823-04	1820.48	1820480
TSP032823-05	1714	1714000
PM032823-06	1780.9	1780900
TSP032823-07	1786.37	1786370
PM032823-08	610.18	610180
TSP032823-09	577.81	577810
PM032823-10	605.12	605120
TSP032823-11	602.66	602660
		0
		0
		0

TOTAL VOLUME Revisions

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2

Project Number: J310000400

WBS Code: J310000400-016

Event: Parcel E Phase 2 Air Monitoring

	COCID	SDG Num	Sample ID	Matrix	Date	Time	Comments
1	[redacted]080123AIRE	B214-065	PM041823-69	A	07/25/2023	0623	VOLUME (M3): 1640.65
2	[redacted]080123AIRE	B214-065	TSP041823-70	A	07/25/2023	0623	VOLUME (M3): 1772.60
3	[redacted]080123AIRE	B214-065	PM042123-01	A	07/26/2023	0623	VOLUME (M3): 1669.09
4	[redacted]080123AIRE	B214-065	TSP042123-02	A	07/26/2023	0623	VOLUME (M3): 1770.07
5	[redacted]080123AIRE	B214-065	PM042123-05	A	07/27/2023	0629	VOLUME (M3): 1674.22
6	[redacted]080123AIRE	B214-065	TSP042123-06	A	07/27/2023	0629	VOLUME (M3): 1777.90
7	[redacted]080123AIRE	B214-065	PM042123-09	A	07/27/2023	1452	VOLUME (M3): 577.36
8	[redacted]080123AIRE	B214-065	TSP042123-10	A	07/27/2023	1452	VOLUME (M3): 613.84
9	[redacted]080823AIRE	B221-048	PM041223-01	A	8/1/2023	625	VOLUME (M3): 1669.69
10	[redacted]080823AIRE	B221-048	TSP041223-02	A	8/1/2023	625	VOLUME (M3): 1765.16
11	[redacted]080823AIRE	B221-048	PM041223-05	A	8/2/2023	619	VOLUME (M3):1756.10
12	[redacted]080823AIRE	B221-048	TSP041223-06	A	8/2/2023	619	VOLUME (M3): 1759.28
13	[redacted]080823AIRE	B221-048	PM041223-09	A	8/3/2023	624	VOLUME (M3): 1767.72
14	[redacted]080823AIRE	B221-048	TSP041223-10	A	8/3/2023	624	VOLUME (M3): 1769.91
15	[redacted]080823AIRE	B221-048	PM041223-13	A	8/3/2023	1508	VOLUME (M3): 603.15
16	[redacted]080823AIRE	B221-048	TSP041223-14	A	8/3/2023	1508	VOLUME (M3): 641.80
17	[redacted]081523AIRE	B228-073	PM041223-35	A	8/8/2023	626	VOLUME (M3): 1665.79
18	[redacted]081523AIRE	B228-073	TSP041223-36	A	8/8/2023	626	VOLUME (M3): 1764.08
19	[redacted]081523AIRE	B228-073	PM041623-01	A	8/9/2023	630	VOLUME (M3): 1685.06
20	[redacted]081523AIRE	B228-073	TSP041623-02	A	8/9/2023	630	VOLUME (M3): 1784.56
21	[redacted]081523AIRE	B228-073	PM041623-05	A	8/10/2023	624	VOLUME (M3): 1672.03

TOTAL VOLUME Revisions

22	[redacted]081523AIRE	B228-073	TSP041623-06	A	8/10/2023	624	VOLUME (M3): 1768.84
23	[redacted]081523AIRE	B228-073	PM041623-09	A	8/10/2023	1333	VOLUME (M3): 488.84
24	[redacted]081523AIRE	B228-073	TSP041623-10	A	8/10/2023	1333	VOLUME (M3): 522.60
25	[redacted]082223AIRE	B235-033	PM012323-13	A	8/15/2023	629	VOLUME (M3): 1617.57
26	[redacted]082223AIRE	B235-033	TSP032823-01	A	8/15/2023	629	VOLUME (M3): 1710.05
27	[redacted]082223AIRE	B235-033	PM122022-03	A	8/16/2023	629	VOLUME (M3): 1644.76
28	[redacted]082223AIRE	B235-033	TSP042123-83	A	8/16/2023	629	VOLUME (M3): 1772.88
29	[redacted]082223AIRE	B235-033	PM032823-04	A	8/17/2023	656	VOLUME (M3): 1720.44
30	[redacted]082223AIRE	B235-033	TSP032823-05	A	8/17/2023	656	VOLUME (M3): 1813.69
31	[redacted]082223AIRE	B235-033	PM032823-08	A	8/17/2023	1511	VOLUME (M3): 576.64
32	[redacted]082223AIRE	B235-033	TSP032823-09	A	8/17/2023	1511	VOLUME (M3): 611.43
35	[redacted]082923AIRE		PM032823-12	A	8/22/2023	628	VOLUME (M3): 1699.12
36	[redacted]082923AIRE		TSP032823-13	A	8/22/2023	628	VOLUME (M3): 1791.30
37	[redacted]082923AIRE		PM042123-86	A	8/23/2023	634	VOLUME (M3): 1695.79
38	[redacted]082923AIRE		TSP042123-87	A	8/23/2023	634	VOLUME (M3): 1790.63
39	[redacted]082923AIRE		PM042123-90	A	8/24/2023	634	VOLUME (M3): 1692.31
40	[redacted]082923AIRE		TSP042123-91	A	8/24/2023	634	VOLUME (M3): 1788.28
41	[redacted]082923AIRE		PM032823-08	A	8/24/2023	1354	VOLUME (M3): 515.18
42	[redacted]082923AIRE		TSP032823-09	A	8/24/2023	1354	VOLUME (M3): 542.31

Sample ID	Cubic Meter	Volume (L)
PM041823-69	1640.65	1640650
TSP041823-70	1772.6	1772600
PM042123-01	1669.09	1669090
TSP042123-02	1770.07	1770070
PM042123-05	1674.22	1674220
TSP042123-06	1777.9	1777900
PM042123-09	577.36	577360
TSP042123-10	613.84	613840
PM041223-01	1669.69	1669690
TSP041223-02	1765.16	1765160
PM041223-05	1756.1	1756100
TSP041223-06	1759.28	1759280
PM041223-09	1767.72	1767720
TSP041223-10	1769.91	1769910
PM041223-13	603.15	603150
TSP041223-14	641.8	641800
PM041223-35	1665.79	1665790
TSP041223-36	1764.08	1764080
PM041623-01	1685.06	1685060
TSP041623-02	1784.56	1784560
PM041623-05	1672.03	1672030
TSP041623-06	1768.84	1768840
PM041623-09	488.84	488840
TSP041623-10	522.6	522600
PM012323-13	1617.57	1617570
TSP032823-01	1710.05	1710050
PM122022-03	1644.76	1644760
TSP042123-83	1772.88	1772880
PM032823-04	1720.44	1720440
TSP032823-05	1813.69	1813690
PM032823-08	576.64	576640
TSP032823-09	611.43	611430
PM032823-12	1699.12	1699120
TSP032823-13	1791.3	1791300
PM042123-86	1695.79	1695790
TSP042123-87	1790.63	1790630
PM042123-90	1692.31	1692310
TSP042123-91	1788.28	1788280
PM032823-08	515.18	515180
TSP032823-09	542.31	542310
		0
		0
		0

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA-LAP, LLC Accreditation ID 100531

Built Environment Testing Analytics

Level 2 QA/QC Summary Report

Work Order #: B235033

Report Date: 9/21/2023

Batch ID: **ICP230823E** Analysis Date: 8/31/2023

Media:: **8X10PW GFF** Preparation Date 8/25/2023

Blank Spike Results

QC ID	Parameter	Percent Recovery LCS	LCSD	Acceptance	RPD	Limit
LCS ICP230823E	Copper	96	98	75-125	1.5	20
LCS ICP230823E	Lead	92	94	75-125	1.8	20
LCS ICP230823E	Manganese	97	98	75-125	0.7	20

Method Blank Results

QC ID	Parameter	Result	RL	Units
LMB ICP230823E	Copper	< 98	98	ug
LMB ICP230823E	Lead	< 14	14	ug
LMB ICP230823E	Manganese	< 98	98	ug

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

September 14, 2023

[redacted]
AIS-GES, LLC
1501 W. FOUNTAINHEAD PKWY,
#550
TEMPE, AZ 85282

Laboratory Workorder ID: B242009

Client Project ID: J310000400 PARCEL E HUNTERS PT
Received: August 30, 2023
Reported: September 14, 2023

Attached are the results we obtained on the analysis of your samples submitted to Analytics. Any Chains-of-Custody associated by this sample group are enclosed. Air concentrations are calculated as a convenience to the client and the overall accuracy of this result depends on both the accuracy of the air volume and the amount found by analysis. Theoretical air volumes for passive monitors are calculated using the sampling time submitted and the manufacture's listed sampling rate for each compound. Results provided in this report relate only to the items tested.

For blanks and non-detects the results indicated with a '<' value represents the reporting limit for the analysis. Unless otherwise noted results are not corrected for blank values.

Unless the signature of the appropriate manager(s) appears on this report, this report should be considered PRELIMINARY and is subject to change.

We appreciate your confidence in allowing Analytics to be your testing laboratory. Any questions regarding this report can be addressed by calling our customer services department at (800) 888-8061.

[redacted]
[redacted], CIH
Technical Director

Enclosures

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

AIS-GES, LLC
1501 W. FOUNTAINHEAD PKWY, #550
TEMPE, AZ 85282

Customer: PARCELE1
Attention: [redacted]
PO Number J310000400-016

Date Received: 08/30/23
Client Project ID J310000400 PARCEL E HUNTERS PT

Lab ID: B242009001 Sample ID: PM032823-12 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/22/2023 6:28 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/31/23	1699120 L	1000 ug			44800 ug	26 ug/M3

Lab ID: B242009002 Sample ID: TSP032823-13 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/22/2023 6:28 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/31/23	1791300 L	1000 ug			126000 ug	70 ug/M3
Copper	40 CFR Part 50 Appendix G	09/12/23	1791300 L	98 ug			650 ug	0.363 ug/M3
Lead	40 CFR Part 50 Appendix G	09/12/23	1791300 L	14 ug			19.4 ug	0.011 ug/M3
Manganese	40 CFR Part 50 Appendix G	09/12/23	1791300 L	98 ug			< 98 ug	< 0.055 ug/M3

Lab ID: B242009003 Sample ID: PM032823-14 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/22/2023 6:35 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/31/23	1763500 L	1000 ug			33400 ug	19 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B242009004 Sample ID: TSP032823-15 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/22/2023 6:35 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/31/23	1762260 L	1000 ug			45000 ug	26 ug/M3
Copper	40 CFR Part 50 Appendix G	09/12/23	1762260 L	98 ug			166 ug	0.094 ug/M3
Lead	40 CFR Part 50 Appendix G	09/12/23	1762260 L	14 ug			< 14 ug	< 0.008 ug/M3
Manganese	40 CFR Part 50 Appendix G	09/12/23	1762260 L	98 ug			< 98 ug	< 0.056 ug/M3

Lab ID: B242009005 Sample ID: PM042123-86 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/23/2023 6:34 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/31/23	1695790 L	1000 ug			37700 ug	22 ug/M3

Lab ID: B242009006 Sample ID: TSP042123-87 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/23/2023 6:34 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/31/23	1790630 L	1000 ug			68900 ug	38 ug/M3
Copper	40 CFR Part 50 Appendix G	09/12/23	1790630 L	98 ug			503 ug	0.281 ug/M3
Lead	40 CFR Part 50 Appendix G	09/12/23	1790630 L	14 ug			16.5 ug	0.009 ug/M3
Manganese	40 CFR Part 50 Appendix G	09/12/23	1790630 L	98 ug			< 98 ug	< 0.055 ug/M3

Lab ID: B242009007 Sample ID: PM042123-88 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/23/2023 6:42 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B242009007 Sample ID: PM042123-88 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/23/2023 6:42 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/31/23	1760620 L	1000 ug			29500 ug	17 ug/M3

Lab ID: B242009008 Sample ID: TSP042123-89 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/23/2023 6:42 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/31/23	1761940 L	1000 ug			56800 ug	32 ug/M3
Copper	40 CFR Part 50 Appendix G	09/12/23	1761940 L	98 ug			249 ug	0.141 ug/M3
Lead	40 CFR Part 50 Appendix G	09/12/23	1761940 L	14 ug			15.3 ug	0.009 ug/M3
Manganese	40 CFR Part 50 Appendix G	09/12/23	1761940 L	98 ug			< 98 ug	< 0.056 ug/M3

Lab ID: B242009009 Sample ID: PM042123-90 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/24/2023 6:34 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/31/23	1692310 L	1000 ug			47900 ug	28 ug/M3

Lab ID: B242009010 Sample ID: TSP042123-91 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/24/2023 6:34 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/31/23	1788280 L	1000 ug			94800 ug	53 ug/M3
Copper	40 CFR Part 50 Appendix G	09/12/23	1788280 L	98 ug			625 ug	0.349 ug/M3
Lead	40 CFR Part 50 Appendix G	09/12/23	1788280 L	14 ug			15.8 ug	0.009 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B242009010 Sample ID: TSP042123-91 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/24/2023 6:34 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Manganese	40 CFR Part 50 Appendix G	09/12/23	1788280 L	98 ug			< 98 ug	< 0.055 ug/M3

Lab ID: B242009011 Sample ID: PM042123-92 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/24/2023 6:42 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/31/23	1760370 L	1000 ug			40100 ug	23 ug/M3

Lab ID: B242009012 Sample ID: TSP042123-93 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/24/2023 6:42 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/31/23	1755810 L	1000 ug			71200 ug	41 ug/M3
Copper	40 CFR Part 50 Appendix G	09/12/23	1755810 L	98 ug			274 ug	0.156 ug/M3
Lead	40 CFR Part 50 Appendix G	09/12/23	1755810 L	14 ug			< 14 ug	< 0.008 ug/M3
Manganese	40 CFR Part 50 Appendix G	09/12/23	1755810 L	98 ug			< 98 ug	< 0.056 ug/M3

Lab ID: B242009013 Sample ID: PM042123-94 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/24/2023 1:54 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/31/23	515180 L	1000 ug			16400 ug	32 ug/M3

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AIHA LAP, LLC Accreditation ID 100531

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Lab ID: B242009014 Sample ID: TSP042123-95 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/24/2023 1:54 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/31/23	542310 L	1000 ug			37800 ug	70 ug/M3
Copper	40 CFR Part 50 Appendix G	09/12/23	542310 L	98 ug			189 ug	0.349 ug/M3
Lead	40 CFR Part 50 Appendix G	09/12/23	542310 L	14 ug			< 14 ug	< 0.026 ug/M3
Manganese	40 CFR Part 50 Appendix G	09/12/23	542310 L	98 ug			< 98 ug	< 0.181 ug/M3

Lab ID: B242009015 Sample ID: PM042123-96 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/24/2023 2:09 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	08/31/23	544700 L	1000 ug			13500 ug	25 ug/M3

Lab ID: B242009016 Sample ID: TSP042123-97 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/24/2023 2:09 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	08/31/23	541810 L	1000 ug			25500 ug	47 ug/M3
Copper	40 CFR Part 50 Appendix G	09/12/23	541810 L	98 ug			< 98 ug	< 0.181 ug/M3
Lead	40 CFR Part 50 Appendix G	09/12/23	541810 L	14 ug			< 14 ug	< 0.026 ug/M3
Manganese	40 CFR Part 50 Appendix G	09/12/23	541810 L	98 ug			< 98 ug	< 0.181 ug/M3

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AIHA LAP, LLC Accreditation ID 100531

Final Report

General Laboratory Comments

Abbreviations:
ug = micrograms; mg=milligrams; g = grams, ppm=parts per million (volume), ppb = parts per billion (volume), mg/M3=milligrams per cubic meter of air, ug/M3=micrograms per cubic meter of air; Min=minutes, Qual=Qualifiers

CHAIN-OF-CUSTODY RECORD

[redacted] Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282

COC # [redacted]082923AIRE

B242009

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

						Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu											
	Event: Parcel E Phase 2 Air Monitoring						1	1	1											
	Sample ID	Matrix	Date	Time	Samp Init.											Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	PM032823-12	A	08/22/2023	0628	[redacted]	X										AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP032823-13	A	08/22/2023	0628			X	X								AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM032823-14	A	08/22/2023	0635		X										AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP032823-15	A	08/22/2023	0635			X	X								AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	8/29/23	1400	FEDEX	8/29/23	1400	Shipping Date: 8/29/2023 / FEDEX / 7730 5795 4215
			[redacted]	8/30/23	1220	
						Received by Laboratory: *(Signature, Date, Time)* & condition
				8/30/23 1220		Custody Seal Intact [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]082923AIRE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	PO [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Analytical Test Method

		CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu
	Event: Parcel E Phase 2 Air Monitoring	1	1	1

	Sample ID	Matrix	Date	Time	Samp Init.	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	PM042123-86	A	08/23/2023	0634	[redacted]	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP042123-87	A	08/23/2023	0634		AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM042123-88	A	08/23/2023	0642		AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP042123-89	A	08/23/2023	0642		AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

[redacted]	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	8/29/23	1400	FEDEX	8/29/23	1400	Shipping Date: 8/29/2023 / FEDEX / 7730 5795 4215
			[redacted]	8/30/23	1220	
						ratory: *(Signature, Date, Time)* **& condition**
						8/30/23 1220 Custody Seal Intact [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282

COC # [redacted]082923AIRE

GES
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Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

	Sample ID	Matrix	Date	Time	Samp Init.	CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
	Event: Parcel E Phase 2 Air Monitoring					1	1	1						
1	PM042123-90	A	08/24/2023	0634	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP042123-91	A	08/24/2023	0634			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM042123-92	A	08/24/2023	0642		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP042123-93	A	08/24/2023	0642			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	8/29/23	1400	FEDEX	8/29/23	1400	Shipping Date: 8/29/2023 / FEDEX / 7730 5795 4215
			[redacted]	8/30/23	1220	

Received by Laboratory: *(Signature, Date, Time)* **& condition**

8/30/23 1220 Custody Seal Intact [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282

COC # [redacted]082923AIRE

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

						Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu			Sample	Depth (ft bgs)			
	Sample ID	Matrix	Date	Time	Samp Init.						Location ID	Type	Top	Bottom	Cooler	Comments
	Event: Parcel E Phase 2 Air Monitoring						1	1	1							
1	PM042123-94	A	08/24/2023	1354	[redacted]		X				AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP042123-95	A	08/24/2023	1354				X	X		AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM042123-96	A	08/24/2023	1409			X				AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP042123-97	A	08/24/2023	1409				X	X		AMSE2	N1	0.00	0.00	1	VOLUME (M3):

[redacted] 8/29/23

[redacted] 8/29/23

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	8/29/23	1400	FEDEX	8/29/23	1400
			[redacted]	8130123	1720

Shipping Date / Carrier / Airbill Number

Shipping Date: 8/29/2023 / FEDEX / 7730 5795 4215

Received by Laboratory: *(Signature, Date, Time)* **& condition**

[redacted] 8/30/23 1220 Custody Seal Intact

COC # [redacted]082923AIRE

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Event: Parcel E Phase 2 Air Monitoring
Project Number: J310000400	
WBS Code: J310000400-016	

	Sample ID	Matrix	Date	Time	Comments
1	PM032823-12	A	08/22/2023	0628	VOLUME (M3): 1798.01
2	TSP032823-13	A	08/22/2023	0628	VOLUME (M3): 1692.77
3	PM032823-14	A	08/22/2023	0635	VOLUME (M3): 1763.50
4	TSP032823-15	A	08/22/2023	0635	VOLUME (M3): 1762.26
5	PM042123-86	A	08/23/2023	0634	VOLUME (M3): 1794.48
6	TSP042123-87	A	08/23/2023	0634	VOLUME (M3): 1692.13
7	PM042123-88	A	08/23/2023	0642	VOLUME (M3): 1760.62
8	TSP042123-89	A	08/23/2023	0642	VOLUME (M3): 1761.94
9	PM042123-90	A	08/24/2023	0634	VOLUME (M3): 1790.89
10	TSP042123-91	A	08/24/2023	0634	VOLUME (M3): 1689.83
11	PM042123-92	A	08/24/2023	0642	VOLUME (M3): 1760.37
12	TSP042123-93	A	08/24/2023	0642	VOLUME (M3): 1755.81
13	PM042123-94	A	08/24/2023	1354	VOLUME (M3): 545.18
14	TSP042123-95	A	08/24/2023	1354	VOLUME (M3): 512.47
15	PM042123-96	A	08/24/2023	1409	VOLUME (M3): 544.70
16	TSP042123-97	A	08/24/2023	1409	VOLUME (M3): 541.81

Sample ID	Cubic Meter	Volume (L)
PM032823-12	1798.01	1798010
TSP032823-13	1692.77	1692770
PM032823-14	1763.5	1763500
TSP032823-15	1762.26	1762260
PM042123-86	1794.48	1794480
TSP042123-87	1692.13	1692130
PM042123-88	1760.62	1760620
TSP042123-89	1761.94	1761940
PM042123-90	1790.89	1790890
TSP042123-91	1689.83	1689830
PM042123-92	1760.37	1760370
TSP042123-93	1755.81	1755810
PM042123-94	545.18	545180
TSP042123-95	512.47	512470
PM042123-96	544.7	544700
TSP042123-97	541.81	541810
		0
		0
		0
		0
		0
		0
		0
		0

HPS E [redacted]082923AIRE Total Volume Revision

[redacted]

Thu 8/31/2023 5:11 PM

[redacted]

1 attachments (92 KB)

[redacted]082923AIRE Air Calc Update.pdf;

EXTERNAL EMAIL*

Good afternoon,

I have attached revised total volumes for Hunter's Point Parcel E Air COC [redacted]082923AIRE. Please use these revised volumes for the calculations and the lab report.

I also wanted to know what the pricing would be to recalculate the results using new total volumes for the following SDGs: B214-065, B221-048, B221-073, and B235-033.
It would be for half of the samples on each SDG.

Please let me know if you have any questions or concerns.

Thank you!

[redacted]
Chemist I
GES | MBE
1501 W Fountainhead Pkwy, Suite 550
Tempe, AZ 85282
[redacted]
GES-AIS.COM

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TOTAL VOLUME Revisions

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2						
Project Number: J310000400						
WBS Code: J310000400-016						
Event: Parcel E Phase 2 Air Monitoring						
	COCID	Sample ID	Matrix	Date	Time	Comments
35	[redacted]082923AIRE	PM032823-12	A	8/22/2023	628	VOLUME (M3): 1699.12
36	[redacted]082923AIRE	TSP032823-13	A	8/22/2023	628	VOLUME (M3): 1791.30
37	[redacted]082923AIRE	PM042123-86	A	8/23/2023	634	VOLUME (M3): 1695.79
38	[redacted]082923AIRE	TSP042123-87	A	8/23/2023	634	VOLUME (M3): 1790.63
39	[redacted]082923AIRE	PM042123-90	A	8/24/2023	634	VOLUME (M3): 1692.31
40	[redacted]082923AIRE	TSP042123-91	A	8/24/2023	634	VOLUME (M3): 1788.28
41	[redacted]082923AIRE	PM042123-94	A	8/24/2023	1354	VOLUME (M3): 515.18
42	[redacted]082923AIRE	TSP042123-95	A	8/24/2023	1354	VOLUME (M3): 542.31

Sample ID	Cubic Meter	Volume (L)
PM032823-12	1699.12	1699120
TSP032823-13	1791.3	1791300
PM042123-86	1695.79	1695790
TSP042123-87	1790.63	1790630
PM042123-90	1692.31	1692310
TSP042123-91	1788.28	1788280
PM042123-94	515.18	515180
TSP042123-95	542.31	542310

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA-LAP, LLC Accreditation ID 100531

Built Environment Testing Analytics

Level 2 QA/QC Summary Report

Work Order #: B242009

Report Date: 9/14/2023

Batch ID: **ICP230831C** Analysis Date: 9/12/2023

Media:: **8X10PW GFF** Preparation Date 8/31/2023

Blank Spike Results

		Percent Recovery				
QC ID	Parameter	LCS	LCSD	Acceptance	RPD	Limit
LCS ICP230831C	Copper	102	100	75-125	2.5	20
LCS ICP230831C	Lead	85	85	75-125	0.2	20
LCS ICP230831C	Manganese	100	101	75-125	0.8	20

Method Blank Results

QC ID	Parameter	Result	RL	Units
LMB ICP230831C	Copper	< 98	98	ug
LMB ICP230831C	Lead	< 14	14	ug
LMB ICP230831C	Manganese	< 98	98	ug

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

September 14, 2023

[redacted]
AIS-GES, LLC
1501 W. FOUNTAINHEAD PKWY,
#550
TEMPE, AZ 85282

Laboratory Workorder ID: B249070

Client Project ID: J310000400 PARCEL E HUNTERS PT
Received: September 6, 2023
Reported: September 14, 2023

Attached are the results we obtained on the analysis of your samples submitted to Analytics. Any Chains-of-Custody associated by this sample group are enclosed. Air concentrations are calculated as a convenience to the client and the overall accuracy of this result depends on both the accuracy of the air volume and the amount found by analysis. Theoretical air volumes for passive monitors are calculated using the sampling time submitted and the manufacture's listed sampling rate for each compound. Results provided in this report relate only to the items tested.

For blanks and non-detects the results indicated with a '<' value represents the reporting limit for the analysis. Unless otherwise noted results are not corrected for blank values.

Unless the signature of the appropriate manager(s) appears on this report, this report should be considered PRELIMINARY and is subject to change.

We appreciate your confidence in allowing Analytics to be your testing laboratory. Any questions regarding this report can be addressed by calling our customer services department at (800) 888-8061.

[redacted], CIH
Technical Director

Enclosures

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

AIS-GES, LLC
1501 W. FOUNTAINHEAD PKWY, #550
TEMPE, AZ 85282

Customer: PARCELE1
Attention: [redacted]
PO Number J310000400-016

Date Received: 09/06/23
Client Project ID J310000400 PARCEL E HUNTERS PT

Lab ID: B249070001 Sample ID: PM051123-53 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/29/2023 6:36 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	09/07/23	1684610 L	1000 ug			62100 ug	37 ug/M3

Lab ID: B249070002 Sample ID: TSP051123-54 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/29/2023 6:36 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	09/07/23	1782620 L	1000 ug			113000 ug	64 ug/M3
Copper	40 CFR Part 50 Appendix G	09/12/23	1782620 L	98 ug			469 ug	0.263 ug/M3
Lead	40 CFR Part 50 Appendix G	09/12/23	1782620 L	14 ug			77.5 ug	0.043 ug/M3
Manganese	40 CFR Part 50 Appendix G	09/12/23	1782620 L	98 ug			< 98 ug	< 0.055 ug/M3

Lab ID: B249070003 Sample ID: PM051123-55 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/29/2023 6:46 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	09/07/23	1746080 L	1000 ug			52800 ug	30 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B249070004 Sample ID: TSP051123-56 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/29/2023 6:46 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	09/07/23	1740460 L	1000 ug			111000 ug	64 ug/M3
Copper	40 CFR Part 50 Appendix G	09/12/23	1740460 L	98 ug			168 ug	0.097 ug/M3
Lead	40 CFR Part 50 Appendix G	09/12/23	1740460 L	14 ug			29.8 ug	0.017 ug/M3
Manganese	40 CFR Part 50 Appendix G	09/12/23	1740460 L	98 ug			< 98 ug	< 0.056 ug/M3

Lab ID: B249070005 Sample ID: PM051123-57 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/30/2023 6:30 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	09/07/23	1681490 L	1000 ug			104000 ug	62 ug/M3

Lab ID: B249070006 Sample ID: TSP051123-58 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/30/2023 6:30 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	09/07/23	1783300 L	1000 ug			204000 ug	115 ug/M3
Copper	40 CFR Part 50 Appendix G	09/12/23	1783300 L	98 ug			1410 ug	0.789 ug/M3
Lead	40 CFR Part 50 Appendix G	09/12/23	1783300 L	14 ug			87.6 ug	0.049 ug/M3
Manganese	40 CFR Part 50 Appendix G	09/12/23	1783300 L	98 ug			173 ug	0.097 ug/M3

Lab ID: B249070007 Sample ID: PM051123-59 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/30/2023 6:39 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration

Eurofins Analytics, LLC
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Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B249070007 Sample ID: PM051123-59 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/30/2023 6:39 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	09/07/23	1742010 L	1000 ug			49000 ug	28 ug/M3

Lab ID: B249070008 Sample ID: TSP051123-60 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/30/2023 6:39 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	09/07/23	1741730 L	1000 ug			81000 ug	47 ug/M3
Copper	40 CFR Part 50 Appendix G	09/12/23	1741730 L	98 ug			253 ug	0.145 ug/M3
Lead	40 CFR Part 50 Appendix G	09/12/23	1741730 L	14 ug			< 14 ug	< 0.008 ug/M3
Manganese	40 CFR Part 50 Appendix G	09/12/23	1741730 L	98 ug			< 98 ug	< 0.056 ug/M3

Lab ID: B249070009 Sample ID: PM051123-61 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/31/2023 6:30 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	09/07/23	1696620 L	1000 ug			95000 ug	56 ug/M3

Lab ID: B249070010 Sample ID: TSP051123-62 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/31/2023 6:30 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	09/07/23	1797100 L	1000 ug			146000 ug	81 ug/M3
Copper	40 CFR Part 50 Appendix G	09/12/23	1797100 L	98 ug			632 ug	0.351 ug/M3
Lead	40 CFR Part 50 Appendix G	09/12/23	1797100 L	14 ug			21.7 ug	0.012 ug/M3

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Lab ID: B249070010 Sample ID: TSP051123-62 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/31/2023 6:30 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Manganese	40 CFR Part 50 Appendix G	09/12/23	1797100 L	98 ug			< 98 ug	< 0.055 ug/M3

Lab ID: B249070011 Sample ID: PM051123-63 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/31/2023 6:40 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	09/07/23	1760790 L	1000 ug			72400 ug	41 ug/M3

Lab ID: B249070012 Sample ID: TSP051123-64 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/31/2023 6:40 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	09/07/23	1757900 L	1000 ug			109000 ug	62 ug/M3
Copper	40 CFR Part 50 Appendix G	09/12/23	1757900 L	98 ug			250 ug	0.142 ug/M3
Lead	40 CFR Part 50 Appendix G	09/12/23	1757900 L	14 ug			14.9 ug	0.008 ug/M3
Manganese	40 CFR Part 50 Appendix G	09/12/23	1757900 L	98 ug			< 98 ug	< 0.056 ug/M3

Lab ID: B249070013 Sample ID: PM051123-65 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/31/2023 1:40 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	09/07/23	358450 L	1000 ug			17200 ug	48 ug/M3

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Lab ID: B249070014 Sample ID: TSP051123-66 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/31/2023 1:40 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	09/07/23	529760 L	1000 ug			33500 ug	63 ug/M3
Copper	40 CFR Part 50 Appendix G	09/12/23	529760 L	98 ug			175 ug	0.331 ug/M3
Lead	40 CFR Part 50 Appendix G	09/12/23	529760 L	14 ug			< 14 ug	< 0.026 ug/M3
Manganese	40 CFR Part 50 Appendix G	09/12/23	529760 L	98 ug			< 98 ug	< 0.185 ug/M3

Lab ID: B249070015 Sample ID: PM051123-67 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/31/2023 1:49 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	09/07/23	517710 L	1000 ug			15400 ug	30 ug/M3

Lab ID: B249070016 Sample ID: TSP051123-68 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 08/31/2023 1:49 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	09/07/23	515470 L	1000 ug			27500 ug	53 ug/M3
Copper	40 CFR Part 50 Appendix G	09/12/23	515470 L	98 ug			107 ug	0.208 ug/M3
Lead	40 CFR Part 50 Appendix G	09/12/23	515470 L	14 ug			< 14 ug	< 0.027 ug/M3
Manganese	40 CFR Part 50 Appendix G	09/12/23	515470 L	98 ug			< 98 ug	< 0.19 ug/M3

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Final Report

General Laboratory Comments

Abbreviations:
ug = micrograms; mg=milligrams; g = grams, ppm=parts per million (volume), ppb = parts per billion (volume), mg/M3=milligrams per cubic meter of air, ug/M3=micrograms per cubic meter of air; Min=minutes, Qual=Qualifiers

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]090523AIRE

B249070

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

						Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu											
	Event: Parcel E Phase 2 Air Monitoring						1	1	1											
	Sample ID	Matrix	Date	Time	Samp Init.											Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	PM051123-53	A	08/29/2023	0636	[redacted]		X			[redacted]						AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP051123-54	A	08/29/2023	0636				X	X							AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM051123-55	A	08/29/2023	0646			X									AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP051123-56	A	08/29/2023	0646				X	X							AMSE2	N1	0.00	0.00	1	VOLUME (M3):

9/5/23

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	9/5/23	1500	Fedex	9/5/23	1500
[redacted]			[redacted]	9/6/23	1430

Shipping Date / Carrier / Airbill Number

Shipping Date: 9/5/2023 / FEDEX / 7731 0319 1324

[redacted]: *(Signature, Date, Time)* & condition

9/6/23 1430 custody seal intact [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]090523AIRE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

						Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu										
	Event: Parcel E Phase 2 Air Monitoring						1	1	1										
	Sample ID	Matrix	Date	Time	Samp Init.										Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	PM051123-57	A	08/30/2023	0630	[redacted]		X								AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP051123-58	A	08/30/2023	0630				X	X						AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM051123-59	A	08/30/2023	0639			X								AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP051123-60	A	08/30/2023	0639				X	X						AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	9/5/23	1500	FedEx	9/5/23	1500
			[redacted]	9/6/23	1430

Shipping Date / Carrier / Airbill Number

Shipping Date: 9/5/2023 / FEDEX / 7731 0319 1324

Received by Laboratory: *(Signature, Date, Time)* **& condition**

[redacted] 9/6/23 1420 Custody Seal Intact [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]090523AIRE

GES
AN ABS GROUP COMPANY

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						Analytical Test Method								
						1	1	1						
1	PM051123-61	A	08/31/2023	0630	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP051123-62	A	08/31/2023	0630			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM051123-63	A	08/31/2023	0640		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP051123-64	A	08/31/2023	0640			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	9/5/23	1500	FedEx	9/5/23	1500
			[redacted]	9/6/23	1430

Shipping Date / Carrier / Airbill Number

Shipping Date: 9/5/2023 / FEDEX / 7731 0319 1324

Received by: Laboratory: *(Signature, Date, Time)* **& condition**

[redacted] 9/6/23 1430 Custody Seal Intact [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]090523AIRE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1	1	1						
1	PM051123-65	A	08/31/2023	1340	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP051123-66	A	08/31/2023	1340			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM051123-67	A	08/31/2023	1349		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP051123-68	A	08/31/2023	1349			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	9/5/23	1500	Fedex	9/5/23	1500
			[redacted]	9/6/23	1430

Shipping Date / Carrier / Airbill Number

Shipping Date: 9/5/2023 / FEDEX / 7731 0319 1324

Received by Laboratory: *(Signature, Date, Time)* **& condition**

[redacted] 9/6/23 1430 Custody Seal Intact [redacted]

COC # [redacted]090523AIRE

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Event: Parcel E Phase 2 Air
Project Number: J310000400	
WBS Code: J310000400-016	

	Sample ID	Matrix	Date	Time	Comments
1	PM051123-53	A	08/29/2023	0636	VOLUME (M3): 1684.61
2	TSP051123-54	A	08/29/2023	0636	VOLUME (M3): 1782.62
3	PM051123-55	A	08/29/2023	0646	VOLUME (M3): 1746.08
4	TSP051123-56	A	08/29/2023	0646	VOLUME (M3): 1740.46
5	PM051123-57	A	08/30/2023	0630	VOLUME (M3): 1681.49
6	TSP051123-58	A	08/30/2023	0630	VOLUME (M3): 1783.30
7	PM051123-59	A	08/30/2023	0639	VOLUME (M3): 1742.01
8	TSP051123-60	A	08/30/2023	0639	VOLUME (M3): 1741.73
9	PM051123-61	A	08/31/2023	0630	VOLUME (M3): 1696.62
10	TSP051123-62	A	08/31/2023	0630	VOLUME (M3): 1797.10
11	PM051123-63	A	08/31/2023	0640	VOLUME (M3): 1760.79
12	TSP051123-64	A	08/31/2023	0640	VOLUME (M3): 1757.90
13	PM051123-65	A	08/31/2023	1340	VOLUME (M3): 358.45
14	TSP051123-66	A	08/31/2023	1340	VOLUME (M3): 529.76
15	PM051123-67	A	08/31/2023	1349	VOLUME (M3): 517.71
16	TSP051123-68	A	08/31/2023	1349	VOLUME (M3): 515.47

Sample ID	Cubic Meter	Volume (L)
PM051123-53	1684.61	1684610
TSP051123-54	1782.62	1782620
PM051123-55	1746.08	1746080
TSP051123-56	1740.46	1740460
PM051123-57	1681.49	1681490
TSP051123-58	1783.3	1783300
PM051123-59	1742.01	1742010
TSP051123-60	1741.73	1741730
PM051123-61	1696.62	1696620
TSP051123-62	1797.1	1797100
PM051123-63	1760.79	1760790
TSP051123-64	1757.9	1757900
PM051123-65	358.45	358450
TSP051123-66	529.76	529760
PM051123-67	517.71	517710
TSP051123-68	515.47	515470
		0
		0
		0
		0
		0
		0
		0
		0

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA-LAP, LLC Accreditation ID 100531

Built Environment Testing
Analytics

Level 2 QA/QC Summary Report

Work Order #: B249070

Report Date: 9/14/2023

Batch ID: **ICP230906C** Analysis Date: 9/12/2023

Media:: **8X10PW GFF** Preparation Date 9/6/2023

Blank Spike Results

		Percent Recovery				
QC ID	Parameter	LCS	LCSD	Acceptance	RPD	Limit
LCS ICP230906C	Copper	97	101	75-125	3.9	20
LCS ICP230906C	Lead	80	83	75-125	3.1	20
LCS ICP230906C	Manganese	95	98	75-125	3.4	20

Method Blank Results

QC ID	Parameter	Result	RL	Units
LMB ICP230906C	Copper	< 98	98	ug
LMB ICP230906C	Lead	< 14	14	ug
LMB ICP230906C	Manganese	< 98	98	ug