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

March 1st, 2023 through March 31st, 2023

Approved for public release; distribution is unlimited

DCN: GESL-0005-4332-0119

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Acronyms and Abbreviations

AMSR ..... *Air Monitoring Summary Report*
ASRC..... *Artic 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*
fiber/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 March 1st, 2023 through March 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 was used.

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, manganese, and lead in accordance with EPA Method 6010B (equivalent to IO-3.5 in the Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air [EPA, 1999])

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 fiber/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

fiber/cm^3 = fibers per cubic centimeter

HPNS = Hunters Point Naval Shipyard

mg/m^3 = milligrams per cubic meter

PEL = permissible exposure limit

PM10 = particulate matter 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 was used.

Air Monitoring Data was collected from Station 1 in Parcel E (MSE01) and Station 2 in Parcel D-1 (MSE02) from March 1st, 2023, through March 31st, 2023, during which GES was excavating, grading and maintaining radiological screening yard pads, transporting excavated material and clean import. 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 March 1st, 2023, through March 31st, 2023, did not result in the exceedance of the established threshold criteria, as described in detail below.

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

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

TSP, lead, manganese, and copper results from March 1st, 2023, through March 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 March 1st, 2023, through March 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), 1999. Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Ambient Air Specific Methods.

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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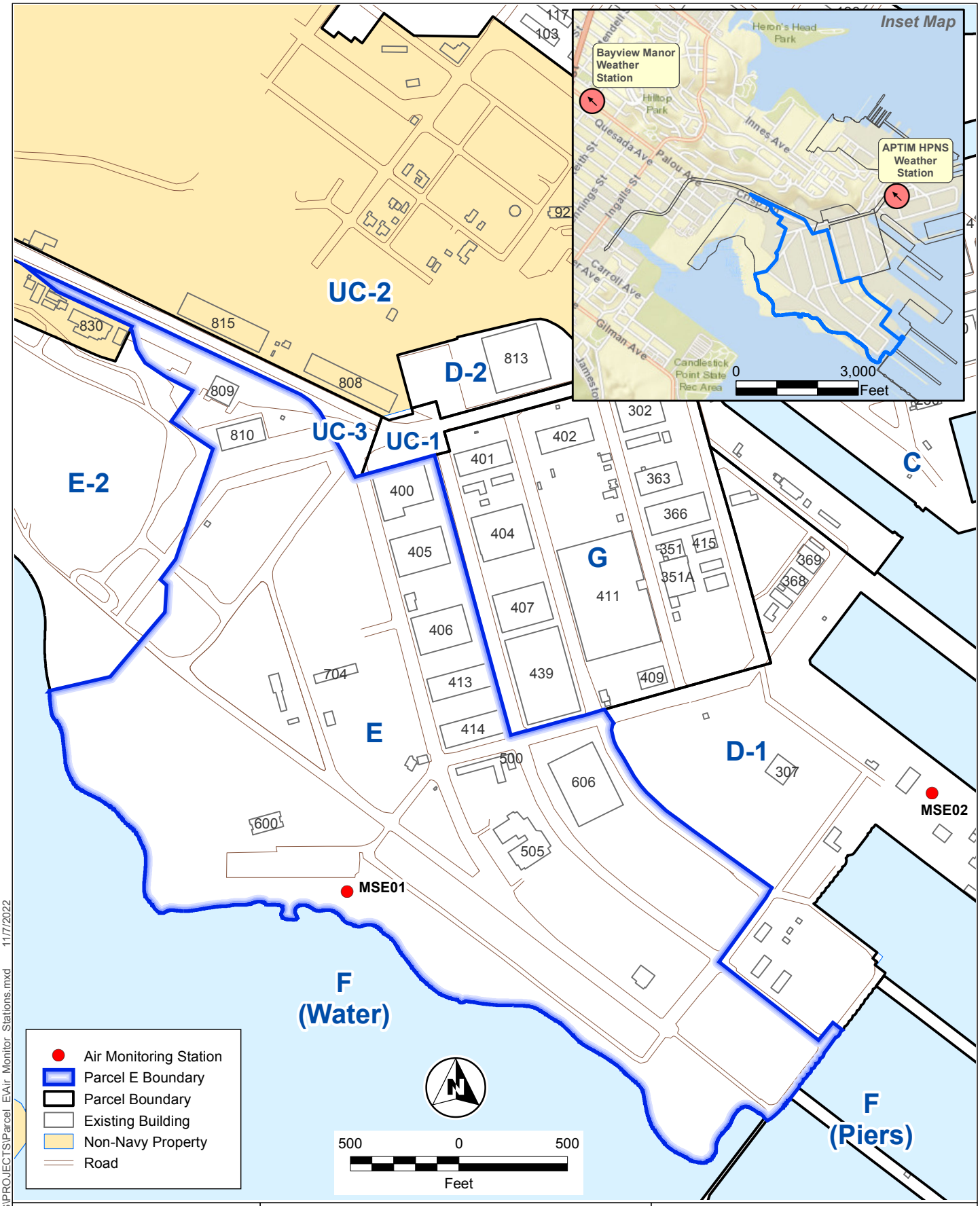

Parcel E
Hunters Point Naval Shipyard
San Francisco, California

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
3/01/2023[1]	30.00	48.13	NNW
3/02/2023[1]	30.16	50.40	ESE
3/06/2023[1]	30.16	46.81	SSE
3/07/2023[1]	30.14	47.84	SSE
3/08/2023[1]	30.15	47.43	SE
3/15/2023[1]	30.00	50.55	SW
3/16/2023[1]	30.06	50.88	SE
3/17/2023[1]	30.08	54.66	ESE
3/20/2023[1]	29.79	49.83	SW
3/22/2023[1]	29.99	51.65	NW
3/23/2023[1]	30.31	49.90	WNW
3/24/2023[1]	30.43	51.00	NNW
3/27/2023[1]	30.11	50.94	SE
3/30/2023[1]	29.98	49.97	ESE

Notes:

[1]Data collected using wunderground.com from Bayview Manor - KCASANFR1775

°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)
MSE01-030123	03/01/23	1	553	1106	8.5	0.004	No
MSE02-030123	03/01/23	2	555	1110	7.0	0.003	No
MSE01-030223	03/02/23	1	445	890	15.0	0.008	No
MSE02-030223	03/02/23	2	441	882	11.5	0.006	No
MSE01-030623	03/06/23	1	562	1124	4.0	<0.002	No
MSE02-030623	03/06/23	2	565	1130	6.5	0.003	No
MSE01-030723	03/07/23	1	554	1108	7.0	0.003	No
MSE02-030723	03/07/23	2	559	1118	13.0	0.006	No
MSE01-030823	03/08/23	1	549	1098	4.0	<0.002	No
MSE02-030823	03/08/23	2	559	1118	8.0	0.004	No
MSE01-031523	03/15/23	1	540	1080	8.5	0.004	No
MSE02-031523	03/15/23	2	520	1040	9.5	0.004	No
MSE01-031623	03/16/23	1	545	1090	7.0	0.003	No
MSE02-031623	03/16/23	2	559	1118	12.5	0.005	No
MSE01-031723	03/17/23	1	517	1034	9.5	0.005	No
MSE02-031723	03/17/23	2	548	1096	7.0	0.003	No
MSE01-032023	03/20/23	1	544	1088	11.0	0.005	No
MSE02-032023	03/20/23	2	555	1110	7.0	0.003	No
MSE01-032223	03/22/23	1	541	1082	6.0	0.003	No
MSE02-032223	03/22/23	2	544	1088	6.5	0.003	No
MSE01-032323	03/23/23	1	532	1064	8.0	0.004	No
MSE02-032323	03/23/23	2	562	1124	9.0	0.004	No
MSE01-032423	03/24/23	1	496	992	7.0	0.003	No
MSE02-032423	03/24/23	2	527	1054	10.0	0.005	No
MSE01-032723	03/27/23	1	525	1050	12.0	0.006	No
MSE02-032723	03/27/23	2	526	1052	10.5	0.005	No
MSE01-033023	03/30/23	1	469	938	9.0	0.005	No
MSE02-033023	03/30/23	2	459	918	14.0	0.007	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 = liter

min = minutes

fibers/cm^3 = fibers per cubic centimeter

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[3] (ug/m^3)	Exceedance (Yes/No)
PM020323-03	1	03/02/23	1764.49	0.00890						
PM020323-05	2	03/02/23	1786.09	0.00801	-0.0009	-0.9	5,000	No	50	No
PM020323-07	1	03/02/23[1]	536.92	0.02160						
PM020323-09	2	03/02/23[1]	535.29	0.01644	-0.0052	-5.2	5,000	No	50	No
PM012923-67	1	03/07/23	1760.94	0.00596						
PM012923-69	2	03/07/23	1769.55	0.00413	-0.0018	-1.8	5,000	No	50	No
PM013023-01	1	03/08/23[1]	1773.47	0.00547						
PM013023-03	2	03/08/23[1]	1783.61	0.00471	-0.0008	-0.8	5,000	No	50	No
PM013023-05	1	03/09/23	1767.70	0.00679						
PM013023-07	2	03/09/23	1776.57	0.00608	-0.0007	-0.7	5,000	No	50	No
PM013023-09	1	03/16/23	1765.91	0.01421						
PM013023-11	2	03/16/23	1728.59	0.01446	0.0002	14.5	5,000	No	50	No
PM020623-07	1	03/17/23	1782.97	0.01778						
PM020623-09	2	03/17/23	1773.80	0.01821	0.0004	0.4	5,000	No	50	No
PM020223-05	1	03/17/23[1]	623.81	0.02966						
PM020223-07	2	03/17/23[1]	667.40	0.02607	-0.0036	-3.6	5,000	No	50	No
PM020723-01	1	03/21/23	733.53[2]	0.01241						
PM020723-03	2	03/21/23	1766.12	0.01172	-0.0007	-0.7	5,000	No	50	No
PM020723-05	1	03/23/23	1758.12	0.01263						
PM020723-07	2	03/23/23	1755.91	0.00957	-0.0031	-3.1	5,000	No	50	No
PM020723-09	1	03/24/23	1756.63	0.01440						
PM020723-11	2	03/24/23	1799.81	0.01167	-0.0027	-2.7	5,000	No	50	No
PM020723-13	1	03/24/23[1]	624.43	0.01137						
PM020723-15	2	03/24/23[1]	660.17	0.01166	0.0003	0.3	5,000	No	50	No
PM020223-01	1	03/28/23	1742.86	0.01744						
PM020223-03	2	03/28/23	1758.05	0.00830	-0.0091	-9.1	5,000	No	50	No
PM020223-09	1	03/30/23[1]	555.53	0.00738						
PM020223-11	2	03/30/23[1]	553.02	0.00488	-0.0025	-2.5	5,000	No	50	No

Notes:

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

[2] Generator malfunction

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)
TSP020323-04	1	03/02/23	1685.41	0.0138			
TSP020323-06	2	03/02/23	1781.98	0.0141	0.0003	0.5	No
TSP020323-08	1	03/02/23[1]	511.72	0.035			
TSP020323-10	2	03/02/23[1]	539.56	0.0224	-0.013	0.5	No
TSP012923-68	1	03/07/23	1667.68	0.00917			
TSP012923-70	2	03/07/23	1777.57	0.00996	0.001	0.5	No
TSP013023-02	1	03/08/23[1]	1682.92	0.00879			
TSP013023-04	2	03/08/23[1]	1792.46	0.0072	-0.0016	0.5	No
TSP013023-06	1	03/09/23	1674.99	0.0101			
TSP013023-08	2	03/09/23	1784.71	0.00958	-0.001	0.5	No
TSP013023-10	1	03/16/23	1678.24	0.0218			
TSP013023-12	2	03/16/23	1737.01	0.0238	0.002	0.5	No
TSP020623-08	1	03/17/23	1697.41	0.0254			
TSP020623-10	2	03/17/23	1781.42	0.0268	0.001	0.5	No
TSP020223-06	1	03/17/23[1]	598.29	0.051			
TSP020223-08	2	03/17/23[1]	668.70	0.0316	-0.0194	0.5	No
TSP020723-02	1	03/21/23	662.19[2]	0.0184			
TSP020723-04	2	03/21/23	1763.05	0.0171	-0.001	0.5	No
TSP020723-06	1	03/23/23	1675.61	0.0184			
TSP020723-08	2	03/23/23	1764.22	0.019	0.0006	0.5	No
TSP020723-10	1	03/24/23	1685.86	0.0205			
TSP020723-12	2	03/24/23	1805.97	0.0192	-0.0013	0.5	No
TSP020723-14	1	03/24/23[1]	581.35	0.0155			
TSP020723-16	2	03/24/23[1]	659.39	0.0188	0.0033	0.5	No
TSP020223-02	1	03/28/23	1655.43	0.0356			
TSP020223-04	2	03/28/23	1767.56	0.0122	-0.023	0.5	No
TSP020223-10	1	03/30/23[1]	528.00	0.0155			
TSP020223-12	2	03/30/23[1]	557.33	0.0151	-0.0004	0.5	No

Notes:

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

[2] Generator malfunction

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)
TSP020323-04	1	03/02/23	1685.41	0.00021419	No	< 0.00000831	No	< 0.00005815	No
TSP020323-06	2	03/02/23	1781.98	0.00026431	No	< 0.00000786	No	< 0.000055	No
TSP020323-08	1	03/02/23[1]	511.72	0.00023841	No	< 0.00002736	No	< 0.00019151	No
TSP020323-10	2	03/02/23[1]	539.56	0.00050041	No	< 0.00002595	No	< 0.00018163	No
TSP012923-68	1	03/07/23	1667.68	0.00057025	No	< 0.00000839	No	< 0.00005876	No
TSP012923-70	2	03/07/23	1777.57	< 0.00005513	No	< 0.00000788	No	< 0.00005513	No
TSP013023-02	1	03/08/23[1]	1682.92	0.00050686	No	< 0.00000832	No	< 0.00005823	No
TSP013023-04	2	03/08/23[1]	1792.46	0.0001523	No	< 0.00000781	No	< 0.00005467	No
TSP013023-06	1	03/09/23	1674.99	0.00057612	No	< 0.00000836	No	< 0.00005851	No
TSP013023-08	2	03/09/23	1784.71	0.00023813	No	< 0.00000784	No	< 0.00005491	No
TSP013023-10	1	03/16/23	1678.24	0.00046537	No	< 0.00000834	No	< 0.00005839	No
TSP013023-12	2	03/16/23	1737.01	0.00037133	No	< 0.00000806	No	< 0.00005642	No
TSP020623-08	1	03/17/23	1697.41	0.00072463	No	< 0.00000825	No	< 0.00005774	No
TSP020623-10	2	03/17/23	1781.42	0.00047153	No	< 0.00000786	No	< 0.00005501	No
TSP020223-06	1	03/17/23[1]	598.29	0.00087249	No	< 0.0000234	No	< 0.0001638	No
TSP020223-08	2	03/17/23[1]	668.70	0.00090175	No	< 0.00002094	No	< 0.00014655	No
TSP020723-02	1	03/21/23	662.19[2]	0.00028089	No	< 0.00002114	No	< 0.00014799	No
TSP020723-04	2	03/21/23	1763.05	0.00028757	No	< 0.00000794	No	< 0.00005559	No
TSP020723-06	1	03/23/23	1675.61	0.00028766	No	< 0.00000836	No	< 0.00005849	No
TSP020723-08	2	03/23/23	1764.22	0.00012924	No	< 0.00000794	No	< 0.00005555	No
TSP020723-10	1	03/24/23	1685.86	0.00025091	No	< 0.0000083	No	< 0.00005813	No
TSP020723-12	2	03/24/23	1805.97	< 0.00005426	No	< 0.00000775	No	< 0.00005426	No
TSP020723-14	1	03/24/23[1]	581.35	0.00022362	No	< 0.00002408	No	< 0.00016857	No
TSP020723-16	2	03/24/23[1]	659.39	0.00025175	No	< 0.00002123	No	< 0.00014862	No
TSP020223-02	1	03/28/23	1655.43	0.00070677	No	< 0.00000846	No	< 0.0000592	No
TSP020223-04	2	03/28/23	1767.56	0.00013861	No	< 0.00000792	No	< 0.00005544	No
TSP020223-10	1	03/30/23[1]	528.00	0.00079356	No	< 0.00002652	No	< 0.00018561	No
TSP020223-12	2	03/30/23[1]	557.33	0.00087201	No	< 0.00002512	No	< 0.00017584	No

Notes:

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

[2] Generator malfunction

Samples analyzed by Eurofins Analytics

Sample locations are shown on Figure 2-1

m^3 = cubic meters

mg/m^3 = milligrams per cubic meter

< = below detection limit

ATTACHMENT 6

AIR SAMPLING RESULTS – PUBLIC EXPOSURE MONITORING

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GES

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 Mar 2023	Value > 0.1 x Effluent Conc (i.e., > 10%)
Information effective as of: 04 Apr 2023			Effluent Conc (µCi/ml)	9.E-13	6.E-12	and 30 Mar 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 Alpha	Gross Activity Beta	Net dpm Alpha	Net dpm Beta	Activity (µCi/ml) Alpha	Activity (µCi/ml) Beta	Effluent Conc (%) Alpha	Effluent Conc (%) Beta	Count Tech	Data Reviewer
AS-0781	Perimeter	MSE01	PE13	50	3/1/23 7:05	3/1/23 15:48	523	2.6E+07	B	03/06/23	1	cpm	0.10	3.15	0.0	2.8	0.0E+00	4.7E-14	***0.0%***	***0.8%***	JSV	BCS
AS-0782	Perimeter	MSE02	PE14	50	3/1/23 7:12	3/1/23 15:50	518	2.6E+07	B	03/06/23	1	cpm	0.05	4.15	-0.2	5.7	N/A	9.8E-14	***N/A***	***1.6%***	JSV	BCS
AS-0783	Perimeter	MSE01	PE13	50	3/2/23 6:52	3/2/23 15:12	500	2.5E+07	B	03/06/23	1	cpm	0.05	2.95	-0.2	2.2	N/A	3.9E-14	***N/A***	***0.7%***	JSV	BCS
AS-0784	Perimeter	MSE02	PE14	50	3/2/23 7:05	3/2/23 15:17	492	2.5E+07	B	03/06/23	1	cpm	0.05	3.95	-0.2	5.1	N/A	9.3E-14	***N/A***	***1.5%***	JSV	BCS
AS-0785	Perimeter	MSE01	PE13	50	3/6/23 6:40	3/6/23 16:00	560	2.8E+07	B	03/13/23	1	cpm	0.25	4.30	0.5	6.1	8.1E-15	9.8E-14	***0.9%***	***1.6%***	JSV	BCS
AS-0786	Perimeter	MSE02	PE14	50	3/6/23 6:50	3/6/23 16:02	552	2.8E+07	B	03/13/23	1	cpm	0.10	4.00	0.0	5.2	0.0E+00	8.5E-14	***0.0%***	***1.4%***	JSV	BCS
AS-0787	Perimeter	MSE01	PE13	50	3/7/23 6:45	3/7/23 15:32	527	2.6E+07	B	03/13/23	1	cpm	0.10	4.60	0.0	7.0	0.0E+00	1.2E-13	***0.0%***	***2.0%***	JSV	BCS
AS-0788	Perimeter	MSE02	PE14	50	3/7/23 6:42	3/7/23 15:32	530	2.6E+07	B	03/13/23	1	cpm	0.30	3.85	0.7	4.8	1.1E-14	8.1E-14	***1.3%***	***1.4%***	JSV	BCS
AS-0789	Perimeter	MSE01	PE13	50	3/8/23 6:45	3/8/23 15:55	550	2.8E+07	B	03/13/23	1	cpm	0.05	3.90	-0.2	4.9	N/A	8.1E-14	***N/A***	***1.3%***	JSV	BCS
AS-0790	Perimeter	MSE02	PE14	50	3/8/23 6:45	3/8/23 15:55	550	2.8E+07	B	03/13/23	1	cpm	0.20	4.40	0.3	6.4	5.5E-15	1.0E-13	***0.6%***	***1.7%***	JSV	BCS
AS-0791	Perimeter	MSE01	PE13	50	3/15/23 6:55	3/15/23 15:25	510	2.5E+07	B	03/20/23	1	cpm	0.15	3.85	0.2	4.8	3.0E-15	8.4E-14	***0.3%***	***1.4%***	JSV	BCS
AS-0792	Perimeter	MSE02	PE14	50	3/15/23 6:55	3/15/23 15:25	510	2.5E+07	B	03/20/23	1	cpm	0.15	4.85	0.2	7.7	3.0E-15	1.4E-13	***0.3%***	***2.3%***	JSV	BCS
AS-0793	Perimeter	MSE01	PE13	50	3/16/23 6:43	3/16/23 15:42	539	2.7E+07	B	03/20/23	1	cpm	0.10	4.80	0.0	7.5	0.0E+00	1.3E-13	***0.0%***	***2.1%***	JSV	BCS
AS-0794	Perimeter	MSE02	PE14	50	3/16/23 6:50	3/16/23 15:46	536	2.7E+07	B	03/20/23	1	cpm	0.15	5.00	0.2	8.1	2.8E-15	1.4E-13	***0.3%***	***2.3%***	JSV	BCS
AS-0795	Perimeter	MSE01	PE13	50	3/17/23 6:44	3/17/23 15:30	526	2.6E+07	B	03/20/23	1	cpm	0.05	3.85	-0.2	4.8	N/A	8.2E-14	***N/A***	***1.4%***	JSV	BCS
AS-0796	Perimeter	MSE02	PE14	50	3/17/23 6:40	3/17/23 15:38	538	2.7E+07	B	03/20/23	1	cpm	0.20	4.20	0.3	5.8	5.6E-15	9.7E-14	***0.6%***	***1.6%***	JSV	BCS
AS-0797	Perimeter	MSE01	PE13	50	3/20/23 6:48	3/20/23 15:47	539	2.7E+07	B	03/27/23	1	cpm	0.20	3.70	0.3	4.3	5.6E-15	7.3E-14	***0.6%***	***1.2%***	DFB	BCS
AS-0798	Perimeter	MSE02	PE14	50	3/20/23 6:52	3/20/23 15:42	530	2.6E+07	B	03/27/23	1	cpm	0.10	3.65	0.0	4.2	0.0E+00	7.1E-14	***0.0%***	***1.2%***	DFB	BCS
AS-0799	Perimeter	MSE01	PE13	50	3/22/23 6:40	3/22/23 15:48	548	2.7E+07	B	03/27/23	1	cpm	0.20	3.95	0.3	5.1	5.5E-15	8.3E-14	***0.6%***	***1.4%***	DFB	BCS
AS-0800	Perimeter	MSE02	PE14	50	3/22/23 6:45	3/22/23 15:50	545	2.7E+07	B	03/27/23	1	cpm	0.10	3.55	0.0	3.9	0.0E+00	6.5E-14	***0.0%***	***1.1%***	DFB	BCS
AS-0801	Perimeter	MSE01	PE13	50	3/23/23 6:55	3/23/23 15:40	525	2.6E+07	B	03/27/23	1	cpm	0.35	3.85	0.8	4.8	1.4E-14	8.2E-14	***1.6%***	***1.4%***	DFB	BCS
AS-0802	Perimeter	MSE02	PE14	50	3/23/23 6:59	3/23/23 15:34	515	2.6E+07	B	03/27/23	1	cpm	0.20	3.80	0.3	4.6	5.9E-15	8.1E-14	***0.7%***	***1.4%***	DFB	BCS
AS-0803	Perimeter	MSE01	PE13	50	3/24/23 6:50	3/24/23 15:41	531	2.7E+07	B	03/27/23	1	cpm	0.35	4.70	0.8	7.2	1.4E-14	1.2E-13	***1.6%***	***2.0%***	DFB	BCS
AS-0804	Perimeter	MSE02	PE14	50	3/24/23 7:06	3/24/23 15:23	497	2.5E+07	B	03/27/23	1	cpm	0.15	4.25	0.2	5.9	3.1E-15	1.1E-13	***0.3%***	***1.8%***	DFB	BCS
AS-0805	Perimeter	MSE01	PE13	50	3/27/23 6:50	3/27/23 15:45	535	2.7E+07	B	04/03/23	1	cpm	0.20	2.90	0.3	2.0	5.7E-15	3.4E-14	***0.6%***	***0.6%***	DFB	BCS
AS-0806	Perimeter	MSE02	PE14	50	3/27/23 6:45	3/27/23 15:40	535	2.7E+07	B	04/03/23	1	cpm	0.20	4.15	0.3	5.7	5.7E-15	9.5E-14	***0.6%***	***1.6%***	DFB	BCS
AS-0807	Perimeter	MSE01	PE13	50	3/30/23 6:45	3/30/23 14:30	465	2.3E+07	B	04/03/23	1	cpm	0.25	3.50	0.5	3.8	9.8E-15	7.3E-14	***1.1%***	***1.2%***	DFB	BCS
AS-0808	Perimeter	MSE02	PE14	50	3/30/23 6:45	3/30/23 14:30	465	2.3E+07	B	04/03/23	1	cpm	0.10	4.30	0.0	6.1	0.0E+00	1.2E-13	***0.0%***	***2.0%***	DFB	BCS

[redacted]

ATTACHMENT 7
LABORATORY REPORTS

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Laboratory Analysis Report

Job ID : 23030812

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 Removal Site Evaluation

Report To :	Client Name:	GES - ASRC Industrial	Total Number of Pages:	7
	Attn:	[redacted]	P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	03/08/2023 10:26
	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
MSE01-030123	3/1/2023 15:56	Cassette	23030812.01
MSE02-030123	3/1/2023 15:51	Cassette	23030812.02
MSE01-030223	3/2/2023 14:04	Cassette	23030812.03
MSE02-030223	3/2/2023 13:52	Cassette	23030812.04

[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 3/15/2023

Job ID : 23030812
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial Project: J310000400 / Hunters Point Shipyard, Parcel E Removal Site Evaluation 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
23030812.01	MSE01-030123	03/01/2023	Area	2			553	1106	100	8.5	10.828	0.004		03/15/23	[redacted]
23030812.02	MSE02-030123	03/01/2023	Area	2			555	1110	100	7	8.917	0.003		03/15/23	[redacted]
23030812.03	MSE01-030223	03/02/2023	Area	2			445	890	100	15.0	19.108	0.008		03/15/23	[redacted]
23030812.04	MSE02-030223	03/02/2023	Area	2			441	882	100	11.5	14.650	0.006		03/15/23	[redacted]

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 : **23030812**	Date Received : **03/08/2023**	Time Received : **10:26AM**
Client Name : **GES - ASRC Industrial**		
Temperature : **22.0°C**	Sample pH : **NA**	
Thermometer ID : **IR4**	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] 03/08/23

Received by : [redacted]

Check in by/date : [redacted] / 03/08/2023

ab-s005-0321

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID # [redacted]030723ASBE

GES

Project Name: Hunters Point Shipyard, Parcel E Removal Site Evaluation	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:23030812

03/08/2023 GES - ASRC Industrial ACH

Page ~~3 of 4~~ 1 of 2

[redacted] 3/6/23

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 (1)	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-030123	A	03/01/2023	1556	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-030123	A	03/01/2023	1551		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

01A 02A

[redacted] 3/6/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	3/7/23	1400	Fedex	3/7/23	1400	Shipping Date:03/07/23 / FEDEX 7713 8831 1894 3/6/23 [redacted]
[redacted] Fedex			[redacted]	03/08/23	0026	**Received by Laboratory:** *(Signature, Date, Time)* **& condition**

22.0 IR4

[redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID # [redacted]030723ASBE

GES

Project Name: Hunters Point Shipyard, Parcel E Removal Site Evaluation	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

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

Page ~~1 of 1~~ 2 of 2

[redacted] 3/6/23

	Sample ID	Matrix	Date	Time	Samp Init.	Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-030223	A	03/02/2023	1404	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-030223	A	03/02/2023	1352		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

03A
04A

[redacted] 3/6/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	3/7/23	1400	Fedex	3/7/23	1400	Shipping Date:03/07/23 / FEDEX 7713 8831 18[redacted] [redacted] 3/6/23
Fedex			[redacted]	03/08/23	1000	**Received by Laboratory:** *(Signature, Date, Time)* **& condition**

22.0 IR4

[redacted]

COC ID # [redacted]030723ASBE

Project Name: Hunters Point Shipyard, Parcel E Removal Site Evaluation	Event: Parcel E Asbestos
Project Number: J310000400	
WBS Code: J310000400	

Sample ID	End Date	End Time	Flow Rate (L/min), Total Time (mins)
MSE01-030123	1-Mar	15:56	2; 553
MSE02-030123	1-Mar	15:51	2; 555
MSE01-030223	2-Mar	14:04	2; 445
MSE02-030223	2-Mar	13:52	2; 441

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

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 28FEB23
ACTWGT: 1.00 LB
CAD: 254128867/INET4580

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

581J4/7BCA/FE2D

FedEx Express

E

J231023011101uv

WED - 01 MAR 4:30P
STANDARD OVERNIGHT

TRK# 0201 **7713 8831 1894**

77029
TX-US **IAH**

AB HBYA

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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.

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Laboratory Analysis Report

Job ID : 23031611

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 Removal Site Evaluation

Report To :	Client Name:	GES - ASRC Industrial	Total Number of Pages:	8
	Attn:	[redacted]	P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	03/15/2023 10:29
	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
MSE01-030623	3/6/2023 15:59	Cassette	23031611.01
MSE02-030623	3/6/2023 15:54	Cassette	23031611.02
MSE01-030723	3/7/2023 15:50	Cassette	23031611.03
MSE02-030723	3/7/2023 15:44	Cassette	23031611.04
MSE01-030823	3/8/2023 15:47	Cassette	23031611.05
MSE02-030823	3/8/2023 15:51	Cassette	23031611.06

[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 3/22/2023

Job ID : 23031611
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial Project: J310000400 / Hunters Point Shipyard, Parcel E Removal Site Evaluation 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
23031611.01	MSE01-030623	03/06/2023	Area	2			562	1124	100	4	5.096	< 0.002		03/22/23	[redacted]
23031611.02	MSE02-030623	03/06/2023	Area	2			565	1130	100	6.5	8.280	0.003		03/22/23	[redacted]
23031611.03	MSE01-030723	03/07/2023	Area	2			554	1108	100	7.0	8.917	0.003		03/22/23	[redacted]
23031611.04	MSE02-030723	03/07/2023	Area	2			559	1118	100	13.0	16.561	0.006		03/22/23	[redacted]
23031611.05	MSE01-030823	03/08/2023	Area	2			549	1098	100	4	5.096	< 0.002		03/22/23	[redacted]
23031611.06	MSE02-030823	03/08/2023	Area	2			559	1118	100	8	10.191	0.004		03/22/23	[redacted]

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 : **23031611**	Date Received : **03/15/2023**	Time Received : **10:29AM**
Client Name : **GES - ASRC Industrial**		
Temperature : **19.4°C**	Sample pH : **NA**	
Thermometer ID : **IR4**	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] 03/15/23

Received by : [redacted]

Check in by/date : [redacted] / 03/15/2023

ab-s005-0321

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID # [redacted]031423ASBE

GES

Project Name: Hunters Point Shipyard, Parcel E Removal Site Evaluation	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

Page 1 of 4 3
3/9/23 [redacted]

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	MSE01-030623	A	03/06/2023	1559	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-030623	A	03/06/2023	1554		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

01 A
02 A

Job ID:23031611
03/15/2023 GES - ASRC Industrial ACH

[redacted] 3/9/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	3/11/23	1400	Fedex	3/14/23	1400	Shipping Date:03/14/23 / FEDEX 7714 5788 9432
FedEx	3/15/23					ory: *(Signature, Date, Time)* & condition [redacted] 3/15/23 1029

19.4°C IR [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID # [redacted]031423ASBE

GES

Project Name: Hunters Point Shipyard, Parcel E Removal Site Evaluation	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

Page 2 of ~~4~~ 3

3/9/23 [redacted]

Event: Parcel E Asbestos

	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	MSE01-030723	A	03/07/2023	1550	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-030723	A	03/07/2023	1544		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

03A 04A

[redacted] 3/9/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	3/14/23	1400	Fedex	3/14/23	1400	Shipping Date:03/14/23 / FEDEX 7714 5788 9432
FedEx	3/15/23					Re[redacted]nature, Date, Time) & condition 3/15/23 1029

19.4 °C
Tmp
[redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID # [redacted]031423ASBE

GES

Project Name: Hunters Point Shipyard, Parcel E Removal Site Evaluation	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

3/9/23 [redacted]

Event: Parcel E Asbestos

	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	MSE01-030823	A	03/08/2023	1547	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-030823	A	03/08/2023	1551		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

[redacted] 3/9/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	3/14/23	1400	FedEx	3/14/23	1400	Shipping Date:03/14/23 / FEDEX 7714 5788 9432
FedEx	3/15/23					[redacted] *(Signature, Date, Time)* **& condition** 3/15/23 1029

19.4°C

[redacted]

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

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 1.00 LB
CAD: 254128867/INET4580

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:

581J7/9982/FE2D

FedEx Express

E

J2310230 1101uv

WED - 08 MAR 4:30P
STANDARD OVERNIGHT

TRK# 0201 **7714 5788 9432**

77029
AB HBYA TX-US **IAH**

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COC ID # KT031423ASBE

Project Name: Hunters Point Shipyard, Parcel E Removal Site Evaluation	Event: Parcel E Asbestos
Project Number: J310000400	
WBS Code: J310000400	

Sample ID	End Date	End Time	Flow Rate (L/min), Total Time (mins)
MSE01-030623	6-Mar	15:59	2; 562
MSE02-030623	6-Mar	15:54	2; 565
MSE01-030723	7-Mar	15:50	2; 554
MSE02-030723	7-Mar	15:44	2; 559
MSE01-030823	8-Mar	15:47	2; 549
MSE02-030823	8-Mar	15:51	2; 559

Laboratory Analysis Report

Job ID : 23032330

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:	8
	Attn:	[redacted]	P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	03/22/2023 09:28
	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
MSE01-031523	3/15/2023 15:36	Cassette	23032330.01
MSE02-031523	3/15/2023 15:42	Cassette	23032330.02
MSE01-031623	3/16/2023 15:43	Cassette	23032330.03
MSE02-031623	3/16/2023 15:47	Cassette	23032330.04
MSE01-031723	3/17/2023 15:21	Cassette	23032330.05
MSE02-031723	3/17/2023 15:36	Cassette	23032330.06

[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 3/29/2023

Job ID : 23032330
Analytical Method: NIOSH 7400-I2-Aug1994

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
23032330.01	MSE01-031523	03/15/2023	Area	2			540	1080	100	8.5	10.828	0.004		03/29/23	[redacted]
23032330.02	MSE02-031523	03/15/2023	Area	2			520	1040	100	9.5	12.102	0.004		03/29/23	[redacted]
23032330.03	MSE01-031623	03/16/2023	Area	2			545	1090	100	7	8.917	0.003		03/29/23	[redacted]
23032330.04	MSE02-031623	03/16/2023	Area	2			559	1118	100	12.5	15.924	0.005		03/29/23	[redacted]
23032330.05	MSE01-031723	03/17/2023	Area	2			517	1034	100	9.5	12.102	0.005		03/29/23	[redacted]
23032330.06	MSE02-031723	03/17/2023	Area	2			548	1096	100	7.0	8.917	0.003		03/29/23	[redacted]

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 : **23032330**	Date Received : **03/22/2023**	Time Received : **9:28AM**
Client Name : **GES - ASRC Industrial**		
Temperature : **22.6°C**	Sample pH : **NA**	
Thermometer ID : **IR4**	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] 3/22/2023

Received by : [redacted]

Check in by/date : [redacted] / 03/22/2023

ab-s005-0321

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID # [redacted]032123ASBE

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:

Job ID:23032330

03/22/2023 GES - ASRC Industrial ACH

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.	Analytical Test Method: Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1						
1	MSE01-031523	A	03/15/2023	1536	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-031523	A	03/15/2023	1542		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

[redacted] 0208

[redacted] 3/10/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	3/21/23	1600	FedEx	3/21/23	1600	Shipping Date:03/21/23 / FEDEX 7715 7535 8339
FEDEX	3/22/23	9:29	[redacted] Am 3/22/23	[redacted] 3/22/23		[redacted] (Signature, Date, Time) & condition 3/22/23 9:28

22.6°C
Sam
[redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federa[redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID # [redacted]032123ASBE

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

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	MSE01-031623	A	03/16/2023	1543	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-031623	A	03/16/2023	1547		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

[redacted] 3/16/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	3/21/23	1600	FedEx	3/21/23	1600	Shipping Date:03/21/23 / FEDEX 7715 7535 8339
FedEx	3/22/23	9:28	[redacted]			ry: *(Signature, Date, Time)* **& condition** 3/22/23 9:28

22.6°C Ice

[redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID # [redacted]032123ASBE

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	MSE01-031723	A	03/17/2023	1521	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-031723	A	03/17/2023	1536		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

[redacted] 3/21/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	3/21/23	1600	FedEx	3/21/23	1600	Shipping Date:03/21/23 / FEDEX 7715 7535 8339
FedEx	3/22/23	9:28	[redacted]			Re[redacted]ture, Date, Time) & condition 3/22/23 9:28

22.6°C
[redacted]

COC ID # [redacted]032123ASBE

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)
MSE01-031523	15-Mar	15:36	2; 540
MSE02-031523	15-Mar	15:42	2; 520
MSE01-031623	16-Mar	15:43	2; 545
MSE02-031623	16-Mar	15:47	2; 559
MSE01-031723	17-Mar	15:21	2; 517
MSE02-031723	17-Mar	15:36	2; 548

ORIGIN ID: ICCA [redacted]

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 21MAR23
ACTWGT: 1.00 LB
CAD: 254128867/INET4580

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:

581J7/9982/FE2D

FedEx Express

J231023011101uv

WED - 22 MAR 4:30P
STANDARD OVERNIGHT

TRK# 0201 **7715 7535 8339**

77029
IAH

AB HBYA

TX-US

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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 : 23032991

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 :	03/29/2023 09:28
	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
MSE01-032023	3/20/2023 15:51	Cassette	23032991.01
MSE02-032023	3/20/2023 15:46	Cassette	23032991.02
MSE01-032223	3/22/2023 15:53	Cassette	23032991.03
MSE02-032223	3/22/2023 15:46	Cassette	23032991.04
MSE01-032323	3/23/2023 15:35	Cassette	23032991.05
MSE02-032323	3/23/2023 15:46	Cassette	23032991.06
MSE01-032423	3/24/2023 15:24	Cassette	23032991.07
MSE02-032423	3/24/2023 15:40	Cassette	23032991.08

[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 4/4/2023

Job ID : 23032991
Analytical Method: NIOSH 7400-I2-Aug1994

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
23032991.01	MSE01-032023	03/20/2023	Area	2			544	1088	100	11	14.013	0.005		04/04/23	[redacted]
23032991.02	MSE02-032023	03/20/2023	Area	2			555	1110	100	7	8.917	0.003		04/04/23	[redacted]
23032991.03	MSE01-032223	03/22/2023	Area	2			541	1082	100	6	7.643	0.003		04/04/23	[redacted]
23032991.04	MSE02-032223	03/22/2023	Area	2			544	1088	100	6.5	8.280	0.003		04/04/23	[redacted]
23032991.05	MSE01-032323	03/23/2023	Area	2			532	1064	100	8	10.191	0.004		04/04/23	[redacted]
23032991.06	MSE02-032323	03/23/2023	Area	2			562	1124	100	9.0	11.465	0.004		04/04/23	[redacted]
23032991.07	MSE01-032423	03/24/2023	Area	2			496	992	100	7	8.917	0.003		04/04/23	[redacted]
23032991.08	MSE02-032423	03/24/2023	Area	2			527	1054	100	10.0	12.739	0.005		04/04/23	[redacted]

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 : **23032991**	Date Received : **03/29/2023**	Time Received : **9:28AM**
Client Name : **GES - ASRC Industrial**		
Temperature : **18.6°C**	Sample pH : **NA**	
Thermometer ID : **IR4**	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. ~EV 3/29/2023

Received by : [redacted]

Check in by/date : [redacted] / 03/29/2023

ab-s005-0321

Job ID:23032991

03/29/2023 GES - ASRC Industrial ACH

CHAIN-OF-CUSTODY RECORD

Gilbane Federal Brett Womack
1655 Grant Street, Suite 1200, Concord, CA 94520
bwomack@gilbaneco.com

COC ID # KT032823ASBE

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.	Analytical Test Method: Asbestos (1)	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-032023	A	03/20/2023	1551	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-032023	A	03/20/2023	1546		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

01A
02A

[redacted] 3/28/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	3/28/23	1400	FedEx	3/28/23	1400	Shipping Date:03/28/23 / FEDEX 7715 7678 3429
FEDEX	3/29/23	9:28				Received by Laboratory: *(Signature, Date, Time)* & condition [redacted] 3/29/23 9:28

[redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal Brett Womack
1655 Grant Street, Suite 1200, Concord, CA 94520
bwomack@gilbaneco.com

COC ID # KT032823ASBE

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.	Analytical Test Method: Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1						
1	MSE01-032223	A	03/22/2023	1553	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-032223	A	03/22/2023	1546		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

03B
04A

3/28/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	3/28/23	1400	Fedex	3/28/23	1400	Shipping Date:03/28/23 / FEDEX 7715 7678 3429
FedEx	3/29/23	9:28				**Received by Laboratory:** *(Signature, Date, Time)* **& condition** [redacted] 3/29/23 9:28

[redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal Brett Womack
1655 Grant Street, Suite 1200, Concord, CA 94520
bwomack@gilbaneco.com

COC ID # KT032823ASBE

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.	Analytical Test Method: Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1						
1	MSE01-032323	A	03/23/2023	1535	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-032323	A	03/23/2023	1546		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	3/28/23	1400	Fedex	3/28/23	1400	Shipping Date:03/28/23 / FEDEX 7715 7678 3429
FEDEX	3/29/23	9:28				**Received by Laboratory:** *(Signature, Date, Time)* **& condition** [redacted] 3/29/23 9:28

[redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal Brett Womack
1655 Grant Street, Suite 1200, Concord, CA 94520
bwomack@gilbaneco.com

COC ID # KT032823ASBE

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.	Analytical Test Method: Asbestos (1)	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-034223	A	03/24/2023	1524	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-032423	A	03/24/2023	1540		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

[redacted] 3/28/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	3/28/23	1400	FedEx	3/28/23	1400	Shipping Date:03/28/23 / FEDEX 7715 7678 3429
FedEx	3/29/23	9:28				R[redacted]gnature, Date, Time) & condition 3/29/23 9:28

[redacted]

COC ID # KT032823ASBE

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)
MSE01-032023	20-Mar	15:51	2; 544
MSE02-032023	20-Mar	15:46	2; 555
~~MSE01-032123~~	~~21-Mar~~	~~0:00~~	no sampling
~~MSE02-032123~~	~~21-Mar~~	~~0:00~~	no sampling
MSE01-032223	22-Mar	15:53	2; 541
MSE02-032223	22-Mar	15:46	2; 544
MSE01-032323	23-Mar	15:35	2; 532
MSE02-032323	23-Mar	15:46	2; 562
MSE01-032423	24-Mar	15:24	2; 496
MSE02-032423	24-Mar	15:40	2; 527

[redacted]

ORIGIN ID: JCCA (925) 250-6097
[redacted]
200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 23MAR23
ACTWGT: 1.00 LB
CAD: 254128867/INET4580

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

FedEx Express

FRI - 24 MAR 4:30P
STANDARD OVERNIGHT

TRK# 0201 **7715 7678 3429**

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 : 23040574

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:	7
	Attn:	[redacted]	P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	04/06/2023 10:36
	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
MSE01-032723	3/27/2023 15:28	Cassette	23040574.01
MSE02-032723	3/27/2023 15:20	Cassette	23040574.02
MSE01-033023	3/30/2023 14:33	Cassette	23040574.03
MSE02-033023	3/30/2023 14:14	Cassette	23040574.04

[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 4/14/2023

Job ID : 23040574
Analytical Method: NIOSH 7400-I2-Aug1994

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
23040574.01	MSE01-032723	03/27/2023	Area	2			525	1050	100	12.0	15.287	0.006		04/13/23	[redacted]
23040574.02	MSE02-032723	03/27/2023	Area	2			526	1052	100	10.5	13.376	0.005		04/13/23	[redacted]
23040574.03	MSE01-033023	03/30/2023	Area	2			469	938	100	9	11.465	0.005		04/13/23	[redacted]
23040574.04	MSE02-033023	03/30/2023	Area	2			459	918	100	14.0	17.834	0.007		04/13/23	[redacted]

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 : **23040574**	Date Received : **04/06/2023**	Time Received : **10:36AM**
Client Name : **GES - ASRC Industrial**		
Temperature : **20.7°C**	Sample pH : **NA**	
Thermometer ID : **IR4**	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] 4/6/2023

Received by : [redacted]

Check in by/date : [redacted] / 04/06/2023

ab-s005-0321

Job ID:23040574

04/08/2023 GES - ASRC Industrial ACH

B094194

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID # [redacted]040423ASBE

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

[redacted] 4/3/23

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	MSE01-032723	A	03/27/2023	1528	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-032723	A	03/27/2023	1520		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

01A
02A

Turnaround Time: 7 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	4/3/23	1400	Fedex	4/3/23	1400	Shipping Date:04/04/23 / FEDEX 7716 5907 6299
			[redacted]		1131	Received by Laboratory: (Signature, Da... Custody Seal Inter...
Fedex	4-6-23	10:36	[redacted]	4-6-23	10:36	10:36 4/6/23

20.7°C
intact - yes
LP4
[redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federa[redacted]
1655 Grant Str[redacted] Concord, CA 94520
[redacted]

COC ID #[redacted]040423ASBE

GES

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

Comments:

Equipment:

Analytical Test Method: Asbestos

[redacted] 4/3/23

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

[redacted] 4/3/23

Event: Parcel E Asbestos

1

	Sample ID	Matrix	Date	Time	Samp Init.		Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-033023	A	03/30/2023	1433	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-033023	A	03/30/2023	1414		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

03A
04A

[redacted] 4/3/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	4/3/23	1400	[redacted]	4/3/23	1400	Shipping Date:04/04/23 / FEDEX 7716 5907 6299
[redacted] Fed ex	4-6-23	10:36		4-6-23	10:36	**Received by Laboratory:** *(Signature, Date, T* Custody Seal Onl[redacted]

10:36
4/6/23

20.7°C
IR4
intact - YES
[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)
MSE01-032723	27-Mar	15:28	2; 525
MSE02-032723	27-Mar	15:20	2; 526
MSE01-033023	30-Mar	14:33	2; 469
MSE02-033023	30-Mar	14:14	2; 459

ORIGIN ID: ICCA [redacted]

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 05APR23
ACTWGT: 1.00 LB
CAD: 254128867/INET4580

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:

581J3/78CF/FE2D

FedEx Express

J231022d1110lux

FedEx Ship Manager - Print Your Label(s)

THU - 06 APR 4:30P
STANDARD OVERNIGHT

TRK# 0201 **7717 6598 0880**

AB HBYA

77029
TX-US **IAH**

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

March 14, 2023

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

Laboratory Workorder ID: B067011

Client Project ID: J310000400 PARCEL E HUNTERS PT
Received: March 8, 2023
Reported: March 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]
Technical Director

Enclosures

eurofins | Built Environment Analytics

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

Work Order B067011

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

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

Date Received: 03/08/23
Client Project ID J310000400 PARCEL E HUNTERS PT

Lab ID: B067011001 Sample ID: PM020323-03 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/2/2023 6:38:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/09/23	1764490 L	1000 ug			15700 ug	9 ug/M3

Lab ID: B067011002 Sample ID: TSP020323-04 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/2/2023 6:38:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/09/23	1685410 L	1000 ug			23300 ug	14 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	03/13/23	1685410 L	98.0 ug			361 ug	0.2142 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	03/13/23	1685410 L	14.0 ug			< 14 ug	< 0.0083 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	03/13/23	1685410 L	98.0 ug			< 98 ug	< 0.0581 ug/M3

Lab ID: B067011003 Sample ID: PM020323-05 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/2/2023 6:31:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/09/23	1786090 L	1000 ug			14300 ug	8 ug/M3

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Work Order B067011

Lab ID: B067011004 Sample ID: TSP020323-06 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/2/2023 6:31:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/09/23	1781980 L	1000 ug			25200 ug	14 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	03/13/23	1781980 L	98.0 ug			471 ug	0.2643 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	03/13/23	1781980 L	14.0 ug			< 14 ug	< 0.0079 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	03/13/23	1781980 L	98.0 ug			< 98 ug	< 0.055 ug/M3

Lab ID: B067011005 Sample ID: PM020323-07 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/2/2023 2:01:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/09/23	536920 L	1000 ug			11600 ug	22 ug/M3

Lab ID: B067011006 Sample ID: TSP020323-08 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/2/2023 2:01:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/09/23	511720 L	1000 ug			17900 ug	35 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	03/13/23	511720 L	98.0 ug			122 ug	0.2384 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	03/13/23	511720 L	14.0 ug			< 14 ug	< 0.0274 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	03/13/23	511720 L	98.0 ug			< 98 ug	< 0.1915 ug/M3

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AIHA LAP, LLC Accreditation ID 100531

Final Report

Work Order B067011

Lab ID: B067011007 Sample ID: PM020323-09 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/2/2023 1:49:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/09/23	535290 L	1000 ug			8800 ug	16 ug/M3

Lab ID: B067011008 Sample ID: TSP020323-10 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/2/2023 1:49:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/09/23	539560 L	1000 ug			12100 ug	22 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	03/13/23	539560 L	98.0 ug			270 ug	0.5004 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	03/13/23	539560 L	14.0 ug			< 14 ug	< 0.0259 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	03/13/23	539560 L	98.0 ug			< 98 ug	< 0.1816 ug/M3

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Ashland, Va 23005
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AIHA LAP, LLC Accreditation ID 100531

Final Report

Work Order B067011

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

B067011

USTODY

Gilbane Federal
[redacted]
2300 Clayton Road, Suite 1050, Concord, CA 94520
[redacted]

COC # [redacted]030723AIRE

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	PM020323-03	A	03/02/2023	0638	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP020323-04	A	03/02/2023	0638			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM020323-05	A	03/02/2023	0631		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP020323-06	A	03/02/2023	0631			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]	3/7/23	1400	Fedex	3/7/23	1400

Shipping Date / Carrier / Airbill Number

Shipping Date: 3/7/2023 / FEDEX / 7713 8823 6358

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

Custody Seal Intact [redacted]

[redacted] 3/8/23 11:18am.

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
2300 Clayton Road, Suite 1050, Concord, CA 94520
[redacted]

COC # [redacted]030723AIRE

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	PM020323-07	A	03/02/2023	1401	[redacted]		X									AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP020323-08	A	03/02/2023	1401				X	X							AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM020323-09	A	03/02/2023	1349			X									AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP020323-10	A	03/02/2023	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]	3/7/23	1400	Fedex	3/7/23	1400

Shipping Date / Carrier / Airbill Number

Shipping Date: 3/7/2023 / FEDEX / 7713 8823 6358

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

Custody Seal Intact - [redacted]

3/8/23 11:18am

COC #[redacted]030723AIRE

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	PM020323-03	A	03/02/2023	0638	VOLUME (M3): 1764.49
2	TSP020323-04	A	03/02/2023	0638	VOLUME (M3): 1685.41
3	PM020323-05	A	03/02/2023	0631	VOLUME (M3): 1786.09
4	TSP020323-06	A	03/02/2023	0631	VOLUME (M3): 1781.98
5	PM020323-07	A	03/02/2023	1401	VOLUME (M3): 536.92
6	TSP020323-08	A	03/02/2023	1401	VOLUME (M3): 511.72
7	PM020323-09	A	03/02/2023	1349	VOLUME (M3): 535.29
8	TSP020323-10	A	03/02/2023	1349	VOLUME (M3): 539.56

Sample ID	Cubic Meter	Volume (L)
PM020323-03	1764.49	1764490
TSP020323-04	1685.41	1685410
PM020323-05	1786.09	1786090
TSP020323-06	1781.98	1781980
PM020323-07	536.92	536920
TSP020323-08	511.72	511720
PM020323-09	535.29	535290
TSP020323-10	539.56	539560
		0
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		0
		0

Eurofins Analytics, LLC
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AIHA-LAP, LLC Accreditation ID 100531

Level 2 QA/QC Summary Report

Work Order #: B067011

Report Date: 3/14/2023

Batch ID: ICP230309C

Blank Spike Results

			Percent Recovery				
QC ID	QC Type	Parameter	LCS	LCSD	Acceptance	RPD	Limit
LCS ICP2	BLKSPK	Copper	95.0	96.0	75-125	1.0	25
LCS ICP2	BLKSPK	Lead	94.0	97.0	75-125	2.0	25
LCS ICP2	BLKSPK	Manganese	96.0	98.0	75-125	1.0	25

Method Blank Results

QC ID	QC Type	Parameter	Result	LOD	Units
LMB ICP2	LMB	Copper	< 98.0	98.0	ug
LMB ICP2	LMB	Lead	< 14.0	14.0	ug
LMB ICP2	LMB	Manganese	< 98.0	98.0	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

March 20, 2023

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

Laboratory Workorder ID: B074034

Client Project ID: J310000400 PARCEL E HUNTERS PT
Received: March 15, 2023
Reported: March 20, 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]
Technical Director

Enclosures

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Eurofins Analytics, LLC
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Ashland, Va 23005
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AIHA LAP, LLC Accreditation ID 100531

Final Report

Work Order B074034

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

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

Date Received: 03/15/23
Client Project ID J310000400 PARCEL E HUNTERS PT

Lab ID: B074034001 Sample ID: PM012923-67 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/7/2023 6:37:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/16/23	1760940 L	1000 ug			10500 ug	6 ug/M3

Lab ID: B074034002 Sample ID: TSP012923-68 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/7/2023 6:37:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/16/23	1667680 L	1000 ug			15300 ug	9 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	03/20/23	1667680 L	98.0 ug			951 ug	0.5703 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	03/20/23	1667680 L	14.0 ug			< 14 ug	< 0.0084 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	03/20/23	1667680 L	98.0 ug			< 98 ug	< 0.0588 ug/M3

Lab ID: B074034003 Sample ID: PM012923-69 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/7/2023 6:29:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/16/23	1769550 L	1000 ug			7300 ug	4 ug/M3

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Final Report

Work Order B074034

Lab ID: B074034004 Sample ID: TSP012923-70 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/7/2023 6:29:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/16/23	1777570 L	1000 ug			17700 ug	10 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	03/20/23	1777570 L	98.0 ug			< 98 ug	< 0.0551 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	03/20/23	1777570 L	14.0 ug			< 14 ug	< 0.0079 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	03/20/23	1777570 L	98.0 ug			< 98 ug	< 0.0551 ug/M3

Lab ID: B074034005 Sample ID: PM013023-01 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/8/2023 6:39:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/16/23	1773470 L	1000 ug			9700 ug	5 ug/M3

Lab ID: B074034006 Sample ID: TSP013023-02 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/8/2023 6:39:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/16/23	1682920 L	1000 ug			14800 ug	9 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	03/20/23	1682920 L	98.0 ug			853 ug	0.5069 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	03/20/23	1682920 L	14.0 ug			< 14 ug	< 0.0083 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	03/20/23	1682920 L	98.0 ug			< 98 ug	< 0.0582 ug/M3

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AIHA LAP, LLC Accreditation ID 100531

Final Report

Work Order B074034

Lab ID: B074034007 Sample ID: PM013023-03 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/8/2023 6:30:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/16/23	1783610 L	1000 ug			8400 ug	5 ug/M3

Lab ID: B074034008 Sample ID: TSP013023-04 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/8/2023 6:30:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/16/23	1792460 L	1000 ug			12900 ug	7 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	03/20/23	1792460 L	98.0 ug			273 ug	0.1523 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	03/20/23	1792460 L	14.0 ug			< 14 ug	< 0.0078 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	03/20/23	1792460 L	98.0 ug			< 98 ug	< 0.0547 ug/M3

Lab ID: B074034009 Sample ID: PM013023-05 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/9/2023 6:37:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/16/23	1767700 L	1000 ug			12000 ug	7 ug/M3

Lab ID: B074034010 Sample ID: TSP013023-06 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/9/2023 6:37:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/16/23	1674990 L	1000 ug			17000 ug	10 ug/M3

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AIHA LAP, LLC Accreditation ID 100531

Final Report

Work Order B074034

Lab ID: B074034010 Sample ID: TSP013023-06 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/9/2023 6:37:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Copper	40CFR50App.G Mod./EPA 6010B	03/20/23	1674990 L	98.0 ug			965 ug	0.5761 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	03/20/23	1674990 L	14.0 ug			< 14 ug	< 0.0084 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	03/20/23	1674990 L	98.0 ug			< 98 ug	< 0.0585 ug/M3

Lab ID: B074034011 Sample ID: PM013023-07 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/9/2023 6:27:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/16/23	1776570 L	1000 ug			10800 ug	6 ug/M3

Lab ID: B074034012 Sample ID: TSP013023-08 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/9/2023 6:27:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/16/23	1784710 L	1000 ug			17100 ug	10 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	03/20/23	1784710 L	98.0 ug			425 ug	0.2381 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	03/20/23	1784710 L	14.0 ug			< 14 ug	< 0.0078 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	03/20/23	1784710 L	98.0 ug			< 98 ug	< 0.0549 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

Work Order B074034

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]
2300 Clayton Road, Suite 1050, Concord, [redacted]

B074034

COC # [redacted]031423AIRE

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

Page 1 of 4

[redacted] 3/14/23

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	PM012923-67	A	03/07/2023	0637	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP012923-68	A	03/07/2023	0637			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM012923-69	A	03/07/2023	0629		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP012923-70	A	03/07/2023	0629			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

[redacted] 3/14/23

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	3/14/23	1400	Fedex	3/14/23	1400

Shipping Date / Carrier / Airbill Number

Shipping Date: / FEDEX / 7714 5792 0914
3/14/23

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

Custody Seal Intact [redacted] 3/15/23 11:09am

GES.Navy_COC_Field
March 02, 2023

CHAIN-OF-CUSTODY RECORD

[redacted] Gilbane Federal
2300 Clayton Road, Suite 1050, Concord, CA 94520
[redacted]

COC # [redacted]031423AIRE

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

[redacted] 3/14/23

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	PM013023-01	A	03/08/2023	0639	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP013023-02	A	03/08/2023	0639			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM013023-03	A	03/08/2023	0630		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP013023-04	A	03/08/2023	0630			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

[redacted] 3/14/23

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	3/14/23	1400	FedEx	3/14/23	1400

Shipping Date / Carrier / Airbill Number
Shipping Date: 3/14/23 / FEDEX / 7714 5792 0914

Received by Laboratory: *(Signature, Date, Time)* **& condition**
Custody Seal Intact [redacted]
3/15/23 11:09am

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
2300 Clayton Road, Suite 1050, Concord, CA 94520
[redacted]

COC # [redacted]031423AIRE

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

Page 3 of ~~4~~ 3

[redacted] 3/9/23

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	PM013023-05	A	03/09/2023	0637	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP013023-06	A	03/09/2023	0637			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM013023-07	A	03/09/2023	0627		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP013023-08	A	03/09/2023	0627			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]	3/14/23	1400	Fedex	3/14/23	1400

Shipping Date / Carrier / Airbill Number

Shipping Date: / FEDEX / 7714 5792 0914
3/14/23

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

Custody Seal Intact - [redacted]

3/15/23 11:09am

COC # [redacted]031423AIRE

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

	Sample ID	Matrix	Date	Time	Comments
1	PM012923-67	A	03/07/2023	0637	VOLUME (M3): 1760.94
2	TSP012923-68	A	03/07/2023	0637	VOLUME (M3): 1667.68
3	PM012923-69	A	03/07/2023	0629	VOLUME (M3): 1769.55
4	TSP012923-70	A	03/07/2023	0629	VOLUME (M3): 1777.57
5	PM013023-01	A	03/08/2023	0639	VOLUME (M3): 1773.47
6	TSP013023-02	A	03/08/2023	0639	VOLUME (M3): 1682.92
7	PM013023-03	A	03/08/2023	0630	VOLUME (M3): 1783.61
8	TSP013023-04	A	03/08/2023	0630	VOLUME (M3): 1792.46
9	PM013023-05	A	03/09/2023	0637	VOLUME (M3): 1767.70
10	TSP013023-06	A	03/09/2023	0637	VOLUME (M3): 1674.99
11	PM013023-07	A	03/09/2023	0627	VOLUME (M3): 1776.57
12	TSP013023-08	A	03/09/2023	0627	VOLUME (M3): 1784.71

Relinquished by: ***(Signature)***
Date
Time
Received by: *(Signature)*

Date
Time
Shipping Date: / /
Received by Laboratory: ***(Signature, Date, Time)*** & co

Sample ID	Cubic Meter	Volume (L)
PM012923-67	1760.94	1760940
TSP012923-68	1667.68	1667680
PM012923-69	1769.55	1769550
TSP012923-70	1777.57	1777570
PM013023-01	1773.47	1773470
TSP013023-02	1682.92	1682920
PM013023-03	1783.61	1783610
TSP013023-04	1792.46	1792460
PM013023-05	1767.7	1767700
TSP013023-06	1674.99	1674990
PM013023-07	1776.57	1776570
TSP013023-08	1784.71	1784710
		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

Level 2 QA/QC Summary Report

Work Order #: B074034

Report Date: 3/20/2023

Batch ID: ICP230315B

Blank Spike Results

			Percent Recovery				
QC ID	QC Type	Parameter	LCS	LCSD	Acceptance	RPD	Limit
LCS ICP2	BLKSPK	Copper	90.0	90.0	75-125	0.0	25
LCS ICP2	BLKSPK	Lead	95.0	95.0	75-125	0.0	25
LCS ICP2	BLKSPK	Manganese	90.0	90.0	75-125	0.0	25

Method Blank Results

QC ID	QC Type	Parameter	Result	LOD	Units
LMB ICP2	LMB	Copper	< 98.0	98.0	ug
LMB ICP2	LMB	Lead	< 14.0	14.0	ug
LMB ICP2	LMB	Manganese	< 98.0	98.0	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

March 30, 2023

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

Laboratory Workorder ID: B081014

Client Project ID: J310000400 PARCEL E HUNTERS PT
Received: March 22, 2023
Reported: March 30, 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]
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: 03/22/23
Client Project ID J310000400 PARCEL E HUNTERS PT

Lab ID: B081014001 Sample ID: PM013023-09 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/16/2023 6:41:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/23/23	1765910 L	1000 ug			25100 ug	14 ug/M3

Lab ID: B081014002 Sample ID: TSP013023-10 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/16/2023 6:41:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/23/23	1678240 L	1000 ug			36600 ug	22 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	03/28/23	1678240 L	98.0 ug			781 ug	0.4654 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	03/28/23	1678240 L	14.0 ug			< 14 ug	< 0.0083 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	03/28/23	1678240 L	98.0 ug			< 98 ug	< 0.0584 ug/M3

Lab ID: B081014003 Sample ID: PM013023-11 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/16/2023 6:31:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/23/23	1728590 L	1000 ug			25000 ug	14 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: B081014004 Sample ID: TSP013023-12 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/16/2023 6:31:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/23/23	1737010 L	1000 ug			41400 ug	24 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	03/28/23	1737010 L	98.0 ug			645 ug	0.3713 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	03/28/23	1737010 L	14.0 ug			< 14 ug	< 0.0081 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	03/28/23	1737010 L	98.0 ug			< 98 ug	< 0.0564 ug/M3

Lab ID: B081014005 Sample ID: PM020623-07 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/17/2023 6:46:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/23/23	1782970 L	1000 ug			31700 ug	18 ug/M3

Lab ID: B081014006 Sample ID: TSP020623-08 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/17/2023 6:46:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/23/23	1697410 L	1000 ug			43100 ug	25 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	03/28/23	1697410 L	98.0 ug			1230 ug	0.7246 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	03/28/23	1697410 L	14.0 ug			< 14 ug	< 0.0082 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	03/28/23	1697410 L	98.0 ug			< 98 ug	< 0.0577 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: B081014007 Sample ID: PM020623-09 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/17/2023 6:30:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/23/23	1773800 L	1000 ug			32300 ug	18 ug/M3

Lab ID: B081014008 Sample ID: TSP020623-10 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/17/2023 6:30:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/23/23	1781420 L	1000 ug			47700 ug	27 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	03/28/23	1781420 L	98.0 ug			840 ug	0.4715 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	03/28/23	1781420 L	14.0 ug			< 14 ug	< 0.0079 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	03/28/23	1781420 L	98.0 ug			< 98 ug	< 0.055 ug/M3

Lab ID: B081014009 Sample ID: PM020223-05 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/17/2023 3:17:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/23/23	623810 L	1000 ug			18500 ug	30 ug/M3

Lab ID: B081014010 Sample ID: TSP020223-06 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/17/2023 3:17:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/23/23	598290 L	1000 ug			30500 ug	51 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: B081014010 Sample ID: TSP020223-06 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/17/2023 3:17:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Copper	40CFR50App.G Mod./EPA 6010B	03/28/23	598290 L	98.0 ug			522 ug	0.8725 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	03/28/23	598290 L	14.0 ug			< 14 ug	< 0.0234 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	03/28/23	598290 L	98.0 ug			< 98 ug	< 0.1638 ug/M3

Lab ID: B081014011 Sample ID: PM020223-07 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/17/2023 3:33:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/23/23	667400 L	1000 ug			17400 ug	26 ug/M3

Lab ID: B081014012 Sample ID: TSP020223-08 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/17/2023 3:33:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/23/23	668700 L	1000 ug			21100 ug	32 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	03/28/23	668700 L	98.0 ug			603 ug	0.9017 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	03/28/23	668700 L	14.0 ug			< 14 ug	< 0.0209 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	03/28/23	668700 L	98.0 ug			< 98 ug	< 0.1466 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

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]
2300 Clayton Road, Suite 1050, Concord, CA 94520

COC # [redacted]032123AIRE

B081014

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

Page 1 of 3

						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	PM013023-09	A	03/16/2023	0641	[redacted]	X									AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP013023-10	A	03/16/2023	0641			X	X							AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM013023-11	A	03/16/2023	0631		X									AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP013023-12	A	03/16/2023	0631			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]	3/21/23	1600	Fed Ex	3/21/23	1600
			[redacted]	3/22/23	1312

Shipping Date / Carrier / Airbill Number

Shipping Date: 3/21/2023 / FEDEX / 7715 7531 7924

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

3/22/23 1312 Intact [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
2300 Clayton Road, Suite 1050, Concord, CA 94520
[redacted]

COC # [redacted]032123AIRE

Gilbane

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	PM020623-07	A	03/17/2023	0646	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP020623-08	A	03/17/2023	0646			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM020623-09	A	03/17/2023	0630		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP020623-10	A	03/17/2023	0630			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]	3/21/23	1600	FedEx	3/21/23	1600
			[redacted]	3/22/23	1312

Shipping Date / Carrier / Airbill Number

Shipping Date: 3/21/2023 / FEDEX / 7715 7531 7924

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

[redacted] 3/22/23 1312 Intact [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
2300 Clayton Road, Suite 1050, Concord, CA 94520
[redacted]

COC # [redacted]032123AIRE

Gilbane

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	PM020223-05	A	03/17/2023	1517	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP020223-06	A	03/17/2023	1517			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM020223-07	A	03/17/2023	1533		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP020223-08	A	03/17/2023	1533			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]	3/21/23	1600	FedEx	3/22/23	1600
			[redacted]	3/22/23	1312

Shipping Date / Carrier / Airbill Number

Shipping Date: 3/21/2023 / FEDEX / 7715 7531 7924

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

[redacted] 3/22/23 1312 Intact [redacted]

COC # [redacted]032123AIRE

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	PM013023-09	A	03/16/2023	0641	VOLUME (M3): 1765.91
2	TSP013023-10	A	03/16/2023	0641	VOLUME (M3): 1678.24
3	PM013023-11	A	03/16/2023	0631	VOLUME (M3): 1728.59
4	TSP013023-12	A	03/16/2023	0631	VOLUME (M3): 1737.01
5	PM020623-07	A	03/17/2023	0646	VOLUME (M3): 1782.97
6	TSP020623-08	A	03/17/2023	0646	VOLUME (M3): 1697.41
7	PM020623-09	A	03/17/2023	0630	VOLUME (M3): 1773.80
8	TSP020623-10	A	03/17/2023	0630	VOLUME (M3): 1781.42
9	PM020223-05	A	03/17/2023	1517	VOLUME (M3): 623.81
10	TSP020223-06	A	03/17/2023	1517	VOLUME (M3): 598.29
11	PM020223-07	A	03/17/2023	1533	VOLUME (M3): 667.40
12	TSP020223-08	A	03/17/2023	1533	VOLUME (M3): 668.70

Sample ID	Cubic Meter	Volume (L)
PM013023-09	1765.91	1765910
TSP013023-10	1678.24	1678240
PM013023-11	1728.59	1728590
TSP013023-12	1737.01	1737010
PM020623-07	1782.97	1782970
TSP020623-08	1697.41	1697410
PM020623-09	1773.8	1773800
TSP020623-10	1781.42	1781420
PM020223-05	623.81	623810
TSP020223-06	598.29	598290
PM020223-07	667.4	667400
TSP020223-08	668.7	668700
		0
		0
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		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

April 3, 2023

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

Laboratory Workorder ID: B088009

Client Project ID: J310000400 PARCEL E HUNTERS PT
Received: March 29, 2023
Reported: April 3, 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]
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: 03/29/23
Client Project ID J310000400 PARCEL E HUNTERS PT

Lab ID: B088009001 Sample ID: PM020723-01 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/21/2023 6:41:00 AM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/30/23	733530	L	1000 ug			9100 ug	12 ug/M3

Lab ID: B088009002 Sample ID: TSP020723-02 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/21/2023 6:41:00 AM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/30/23	662190	L	1000 ug			12200 ug	18 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	04/03/23	662190	L	98 ug			186 ug	0.2809 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	04/03/23	662190	L	14 ug			< 14 ug	< 0.0211 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	04/03/23	662190	L	98 ug			< 98 ug	< 0.148 ug/M3

Lab ID: B088009003 Sample ID: PM020723-03 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/21/2023 6:28:00 AM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/30/23	1766120	L	1000 ug			20700 ug	12 ug/M3

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

Final Report

Lab ID: B088009004 Sample ID: TSP020723-04 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/21/2023 6:28:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/30/23	1763050 L	1000 ug			30200 ug	17 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	04/03/23	1763050 L	98 ug			507 ug	0.2876 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	04/03/23	1763050 L	14 ug			< 14 ug	< 0.0079 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	04/03/23	1763050 L	98 ug			< 98 ug	< 0.0556 ug/M3

Lab ID: B088009005 Sample ID: PM020723-05 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/23/2023 6:45:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/30/23	1758120 L	1000 ug			22200 ug	13 ug/M3

Lab ID: B088009006 Sample ID: TSP020723-06 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/23/2023 6:45:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/30/23	1675610 L	1000 ug			30900 ug	18 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	04/03/23	1675610 L	98 ug			482 ug	0.2877 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	04/03/23	1675610 L	14 ug			< 14 ug	< 0.0084 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	04/03/23	1675610 L	98 ug			< 98 ug	< 0.0585 ug/M3

Eurofins Analytics, LLC
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Phone: (804) 365-3000 Fax: (804) 365-3002
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Final Report

Lab ID: B088009007 Sample ID: PM020723-07 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/23/2023 6:27:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/30/23	1755910 L	1000 ug			16800 ug	10 ug/M3

Lab ID: B088009008 Sample ID: TSP020723-08 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/23/2023 6:27:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/30/23	1764220 L	1000 ug			33600 ug	19 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	04/03/23	1764220 L	98 ug			228 ug	0.1292 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	04/03/23	1764220 L	14 ug			< 14 ug	< 0.0079 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	04/03/23	1764220 L	98 ug			< 98 ug	< 0.0555 ug/M3

Lab ID: B088009009 Sample ID: PM020723-09 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/24/2023 7:04:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/30/23	1756630 L	1000 ug			25300 ug	14 ug/M3

Lab ID: B088009010 Sample ID: TSP020723-10 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/24/2023 7:04:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/30/23	1685860 L	1000 ug			34600 ug	21 ug/M3

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Final Report

Lab ID: B088009010 Sample ID: TSP020723-10 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/24/2023 7:04:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Copper	40CFR50App.G Mod./EPA 6010B	04/03/23	1685860 L	98 ug			423 ug	0.2509 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	04/03/23	1685860 L	14 ug			< 14 ug	< 0.0083 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	04/03/23	1685860 L	98 ug			< 98 ug	< 0.0581 ug/M3

Lab ID: B088009011 Sample ID: PM020723-11 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/24/2023 6:45:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/30/23	1799810 L	1000 ug			21000 ug	12 ug/M3

Lab ID: B088009012 Sample ID: TSP020723-12 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/24/2023 6:45:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/30/23	1805970 L	1000 ug			34700 ug	19 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	04/03/23	1805970 L	98 ug			< 98 ug	< 0.0543 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	04/03/23	1805970 L	14 ug			< 14 ug	< 0.0078 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	04/03/23	1805970 L	98 ug			< 98 ug	< 0.0543 ug/M3

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Final Report

Lab ID: B088009013 Sample ID: PM020723-13 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/24/2023 3:30:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/30/23	624430 L	1000 ug			7100 ug	11 ug/M3

Lab ID: B088009014 Sample ID: TSP020723-14 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/24/2023 3:30:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/30/23	581350 L	1000 ug			9000 ug	15 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	04/03/23	581350 L	98 ug			130 ug	0.2236 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	04/03/23	581350 L	14 ug			< 14 ug	< 0.0241 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	04/03/23	581350 L	98 ug			< 98 ug	< 0.1686 ug/M3

Lab ID: B088009015 Sample ID: PM020723-15 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/24/2023 3:45:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/30/23	660170 L	1000 ug			7700 ug	12 ug/M3

Lab ID: B088009016 Sample ID: TSP020723-16 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/24/2023 3:45:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/30/23	659390 L	1000 ug			12400 ug	19 ug/M3

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

Final Report

Lab ID: B088009016 Sample ID: TSP020723-16 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/24/2023 3:45:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Copper	40CFR50App.G Mod./EPA 6010B	04/03/23	659390 L	98 ug			166 ug	0.2517 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	04/03/23	659390 L	14 ug			< 14 ug	< 0.0212 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	04/03/23	659390 L	98 ug			< 98 ug	< 0.1486 ug/M3

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Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
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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]
2300 Clayton Road, Suite 1050, Concord, CA 94520
[redacted]

COC # [redacted]032823AIRE

B088009

ane

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	PM020723-01	A	03/21/2023	0641	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP020723-02	A	03/21/2023	0641			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM020723-03	A	03/21/2023	0628		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP020723-04	A	03/21/2023	~~0625~~ 0628			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days [redacted]

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	3/28/23	1400	FedEx	3/28/23	1400

Shipping Date / Carrier / Airbill Number

Shipping Date: 3/28/2023 / FEDEX / 7715 7674 6343

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

Custody Seal Intact - [redacted]

[redacted] 3/29/23 10:55am.

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
2300 Clayton Road, Suite 1050, Concord, CA 94520
[redacted]

COC # [redacted]032823AIRE

Gilbane

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: Stephanie Stimpson Stephanie.Stimson@ET.EurofinsUS.com	
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	PM020723-05	A	03/23/2023	0645	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP020723-06	A	03/23/2023	0645			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM020723-07	A	03/23/2023	0627		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP020723-08	A	03/23/2023	0627			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]	3/28/23	1400	FedEx	3/28/23	1400

Shipping Date / Carrier / Airbill Number

Shipping Date: 3/28/2023 / FEDEX / 7715 7674 6343

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

Custody Seal Intact - [redacted]

[redacted] 3/29/23 10:55am

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
2300 Clayton Road, Suite 1050, Concord, CA 94520
[redacted]

COC # [redacted]032823AIRE

Gilbane

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	PM020723-09	A	03/24/2023	0704	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP020723-10	A	03/24/2023	0704			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM020723-11	A	03/24/2023	0645		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP020723-12	A	03/24/2023	0645			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]	3/28/23	1400	Fedex	3/28/23	11:00

Shipping Date / Carrier / Airbill Number

Shipping Date: 3/28/2023 / FEDEX / 7715 7674 6343

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

Custody Seal Intact - [redacted]

[redacted] 3/29/23 10:55am

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
2300 Clayton Road, Suite 1050, Concord, CA 94520
bwomack@ges-ais.com

COC # [redacted]032823AIRE

Gilbane

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	PM020723-13	A	03/24/2023	1530	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP020723-14	A	03/24/2023	1530	[redacted]		X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM020723-15	A	03/24/2023	1545	[redacted]	X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP020723-16	A	03/24/2023	1545	[redacted]		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]	3/28/23	1400	FedEx	3/28/23	1400
[redacted]					

Shipping Date / Carrier / Airbill Number

Shipping Date: 3/28/2023 / FEDEX / 7715 7674 6343

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

Custody Seal Intact - [redacted]

[redacted] 3/29/23 1015am

COC # [redacted]032823AIRE

GES

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	PM020723-01	A	03/21/2023	0641	VOLUME (M3): 733.53
2	TSP020723-02	A	03/21/2023	0641	VOLUME (M3): 662.19
3	PM020723-03	A	03/21/2023	0628	VOLUME (M3): 1766.12
4	TSP020723-04	A	03/21/2023	0628	VOLUME (M3): 1763.05
5	PM020723-05	A	03/23/2023	0645	VOLUME (M3): 1758.12
6	TSP020723-06	A	03/23/2023	0645	VOLUME (M3): 1675.61
7	PM020723-07	A	03/23/2023	0627	VOLUME (M3): 1755.91
8	TSP020723-08	A	03/23/2023	0627	VOLUME (M3): 1764.22
9	PM020723-09	A	03/24/2023	0704	VOLUME (M3): 1756.63
10	TSP020723-10	A	03/24/2023	0704	VOLUME (M3): 1685.86
11	PM020723-11	A	03/24/2023	0645	VOLUME (M3): 1799.81
12	TSP020723-12	A	03/24/2023	0645	VOLUME (M3): 1805.97
13	PM020723-13	A	03/24/2023	1530	VOLUME (M3): 624.43
14	TSP020723-14	A	03/24/2023	1530	VOLUME (M3): 581.35
15	PM020723-15	A	03/24/2023	1545	VOLUME (M3): 660.17
16	TSP020723-16	A	03/24/2023	1545	VOLUME (M3): 659.39

Relinquished by: ***(Signature)***
Date
Time
Received by: *(Signat* [redacted]
GES.Navy_COC_Field (15)

Date 3/29/23
Time 11:03am.
Shipping Date: / /
Received by Laboratory: ***(Signature, Date, Time)*** & co

Sample ID	Cubic Meter	Volume (L)
PM020723-01	733.53	733530
TSP020723-02	662.19	662190
PM020723-03	1766.12	1766120
TSP020723-04	1763.05	1763050
PM020723-05	1758.12	1758120
TSP020723-06	1675.61	1675610
PM020723-07	1755.91	1755910
TSP020723-08	1764.22	1764220
PM020723-09	1756.63	1756630
TSP020723-10	1685.86	1685860
PM020723-11	1799.81	1799810
TSP020723-12	1805.97	1805970
PM020723-13	624.43	624430
TSP020723-14	581.35	581350
PM020723-15	660.17	660170
TSP020723-16	659.39	659390
		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 #: B088009

Report Date: 4/3/2023

Batch ID: ICP230329B

Blank Spike Results

			Percent Recovery				
QC ID	QC Type	Parameter	LCS	LCSD	Acceptance	RPD	Limit
LCS ICP2	BLKSPK	Copper	89.0	91.0	75-125	1.0	25
LCS ICP2	BLKSPK	Lead	90.0	91.0	75-125	1.0	25
LCS ICP2	BLKSPK	Manganese	86.0	87.0	75-125	1.0	25

Method Blank Results

QC ID	QC Type	Parameter	Result	LOD	Units
LMB ICP2	LMB	Copper	< 98	98	ug
LMB ICP2	LMB	Lead	< 14	14	ug
LMB ICP2	LMB	Manganese	< 98	98	ug

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April 12, 2023

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

Laboratory Workorder ID: B096073

Client Project ID: J310000400 PARCEL E HUNTERS PT
Received: April 6, 2023
Reported: April 12, 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]
Technical Director

Enclosures

Eurofins Analytics, LLC
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Ashland, Va 23005
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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: 04/06/23
Client Project ID J310000400 PARCEL E HUNTERS PT

Lab ID: B096073001 Sample ID: PM020223-01 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/28/2023 6:36:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	04/07/23	1742860 L	1000 ug			30400 ug	17 ug/M3

Lab ID: B096073002 Sample ID: TSP020223-02 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/28/2023 6:36:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	04/07/23	1655430 L	1000 ug			59000 ug	36 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	04/12/23	1655430 L	98.0 ug			1170 ug	0.7068 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	04/12/23	1655430 L	14.0 ug			< 14 ug	< 0.0085 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	04/12/23	1655430 L	98.0 ug			< 98 ug	< 0.0592 ug/M3

Lab ID: B096073003 Sample ID: PM020223-03 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/28/2023 6:30:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	04/07/23	1758050 L	1000 ug			14600 ug	8 ug/M3

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Ashland, Va 23005
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AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B096073004 Sample ID: TSP020223-04 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/28/2023 6:30:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	04/07/23	1767560 L	1000 ug			21600 ug	12 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	04/12/23	1767560 L	98.0 ug			245 ug	0.1386 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	04/12/23	1767560 L	14.0 ug			< 14 ug	< 0.0079 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	04/12/23	1767560 L	98.0 ug			< 98 ug	< 0.0554 ug/M3

Lab ID: B096073005 Sample ID: PM020223-09 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/30/2023 2:25:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	04/07/23	555530 L	1000 ug			4100 ug	7 ug/M3

Lab ID: B096073006 Sample ID: TSP020223-10 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/30/2023 2:25:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	04/07/23	528000 L	1000 ug			8200 ug	16 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	04/12/23	528000 L	98.0 ug			419 ug	0.7936 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	04/12/23	528000 L	14.0 ug			< 14 ug	< 0.0265 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	04/12/23	528000 L	98.0 ug			< 98 ug	< 0.1856 ug/M3

Eurofins Analytics, LLC
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Final Report

Lab ID: B096073007 Sample ID: PM020223-11 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/30/2023 2:14:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	04/07/23	553020 L	1000 ug			2700 ug	5 ug/M3

Lab ID: B096073008 Sample ID: TSP020223-12 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 3/30/2023 2:14:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	04/07/23	557330 L	1000 ug			8400 ug	15 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	04/12/23	557330 L	98.0 ug			486 ug	0.872 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	04/12/23	557330 L	14.0 ug			< 14 ug	< 0.0251 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	04/12/23	557330 L	98.0 ug			< 98 ug	< 0.1758 ug/M3

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

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
Brett Womack
2300 Clayton Road, Suite 1050, Concord, CA 94520
bwomack@ges-ais.com

COC # KT040423AIRE

B096073

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: Stephanie Stimpson Stephanie.Stimson@ET.EurofinsUS.com	
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

Page 1 of 4 ~~4~~ 2 4/3/23

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	PM020223-01	A	03/28/2023	0630	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP020223-02	A	03/28/2023	0630			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM020223-03	A	03/28/2023	0630		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP020223-04	A	03/28/2023	0630			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]	4/3/23	1400	FedEx	4/3/23	1400
FedEx	4/4/23	10:27	[redacted]	4/4/23	1543

Shipping Date / Carrier / Airbill Number

Shipping Date: 4/4/2023 / FEDEX / 7716 5904 7053

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

[redacted] 4/4/23 10:27

Custody seals not present

[redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
Brett Womack
2300 Clayton Road, Suite 1050, Concord, CA 94520
bwomack@ges-ais.com

COC # KT040423AIRE

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: Stephanie Stimpson Stephanie.Stimson@ET.EurofinsUS.com	
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

Page 2 of ~~4~~ 2 LS 4/3/23

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	PM020223-09	A	03/30/2023	1425	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP020223-10	A	03/30/2023	1425			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM020223-11	A	03/30/2023	1414		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP020223-12	A	03/30/2023	1414			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]	4/3/23	1400	Fedex	4/3/23	1400
FEDEX	4/4/23	10:27	[redacted]	4/6/23	1543

Shipping Date / Carrier / Airbill Number

Shipping Date: 4/4/2023 / FEDEX / 7716 5904 7053

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

[redacted] 4/4/23 10:27

Custody seals not present 22.3°C [redacted]

COC # KT040423AIRE

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	PM020223-01	A	03/28/2023	0636	VOLUME (M3): 1742.86
2	TSP020223-02	A	03/28/2023	0636	VOLUME (M3): 1655.43
3	PM020223-03	A	03/28/2023	0630	VOLUME (M3): 1758.05
4	TSP020223-04	A	03/28/2023	0630	VOLUME (M3): 1767.56
5	PM020223-09	A	03/30/2023	1425	VOLUME (M3): 555.53
6	TSP020223-10	A	03/30/2023	1425	VOLUME (M3): 528.00
7	PM020223-11	A	03/30/2023	1414	VOLUME (M3): 553.02
8	TSP020223-12	A	03/30/2023	1414	VOLUME (M3): 557.33

Sample ID	Cubic Meter	Volume (L)
PM020223-01	1742.86	1742860
TSP020223-02	1655.43	1655430
PM020223-03	1758.05	1758050
TSP020223-04	1767.56	1767560
PM020223-09	555.53	555530
TSP020223-10	528	528000
PM020223-11	553.02	553020
TSP020223-12	557.33	557330
		0
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		0

Sample Condition Checklist

A&B JobID : **23040192**	Date Received : **04/04/2023**	Time Received : **10:27AM**
Client Name : **GES - ASRC Industrial**		
Temperature : **22.3**	Sample pH : **NA**	
Thermometer ID : **IR4**	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. Filters. ~EV 4/4/2023. We received these filters by mistake per client phone call. Samples were canceled and shipped to the correct laboratory for testing - ACH 4/5/2023

Received by : [redacted]

Check in by/date : [redacted] / 04/04/2023

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 #: B096073

Report Date: 4/12/2023

Batch ID: ICP230406B

Blank Spike Results

			Percent Recovery				
QC ID	QC Type	Parameter	LCS	LCSD	Acceptance	RPD	Limit
LCS ICP2	BLKSPK	Copper	97.0	97.0	75-125	0.0	25
LCS ICP2	BLKSPK	Lead	92.0	94.0	75-125	2.0	25
LCS ICP2	BLKSPK	Manganese	94.0	93.0	75-125	0.0	25

Method Blank Results

QC ID	QC Type	Parameter	Result	LOD	Units
LMB ICP2	LMB	Copper	< 98	98	ug
LMB ICP2	LMB	Lead	< 14	14	ug
LMB ICP2	LMB	Manganese	< 98	98	ug