

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

December 1st, 2022 through March 1st, 2023

Approved for public release; distribution is unlimited

DCN: GESL-0005-4332-0116



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Prepared for:

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Acronyms and Abbreviations

AMSR	Air Monitoring Summary Report
	Artic Slope Regional Corporation
Cal/OSHA	California Occupational Safety and Health Administration
Cfm	cubic feet per minute
CFR	Code of Federal Regulations
СТО	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
	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 December 1st, 2022 through March 1st, 2023 and compares the results with the established action levels presented in the DMCP (Appendix E of the RAWP [Gilbane, 2019a]).

1.0 Introduction

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

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/m³).

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								
		Basewide HPNS Level selected to								
TSP	0.5 mg/m ³	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	Occupational and public air concentration								
	Concentration	limits for ROCs are published in 10 Code of								
	Values	Federal Regulations Part 20, Appendix B.								

Table 4-1: Air Monitoring Threshold Criteria
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Notes:

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

ug/m³ = micrograms per cubic meter

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

fiber/cm³ = fibers per cubic centimeter

HPNS = Hunters Point Naval Shipyard

mg/m³ = 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

4.0 Air Monitoring Data Interpretation and Action Levels

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 February 13th, 2023, through February 23rd, 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. The site was shut down due to inclement weather and no site activity for the months of December and January, therefore no air sampling occurred and no data was presented for these months.

Construction and remediation activities conducted from December 1st, 2022, through March 1st, 2023, did not result in the exceedance of the established threshold criteria, as described in detail below.

Asbestos results from December 1st, 2022, through March 1st, 2023 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 2**.

PM10 results from December 1st, 2022, through March 1st, 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 December 1st, 2022, through March 1st, 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 December 1st, 2022, through March 1st, 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.

5.0 Air Monitoring Results

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.

Figures

FIGURES



ATTACHMENT 1 AMBIENT PRESSURE, TEMPERATURE, AND PREVALENT WIND DIRECTION MONITORING RESULTS

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

Start Date	Ambient Pressure (in Hg)	Ambient Temperature (°F)	Prevalent Wind Direction
2/13/2023 ²	29.95	50.95	WNW
2/14/2023 ²	30.09	47.67	NNW
2/15/2023 ²	48.09	30.25	NNW
2/16/2023 ²	30.24	48.75	SE
2/20/2023 ²	30.05	54.54	WSW
2/21/2023 ²	29.79	47.76	WNW
2/22/2023 ²	29.82	43.11	WNW
2/23/2023 ²	29.85	44.36	SSW

Notes:

²Data 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

Sample, Date a	and Station I	nformation	Sampler Run	Information	Asbestos Fibers			
Sample ID	Sample ID Sample Sample ID Start Date ¹ Monitoring		Duration of Run (min) Total Air Volume Monitored (L)		Asbestos (fibers) Conc Asbestos (fibers/cm ³)		Exceedance (Yes/No)	
MSE01-021323	02/13/23	1	458	916	13.0	0.007	No	
MSE02-021323	02/13/23	2	420	840	14.0	0.008	No	
MSE01-021423	02/14/23	1	534	1068	8.0	0.004	No	
MSE02-021423	02/14/23	2	544	1088	15.0	0.007	No	
MSE01-021523	02/15/23	1	501	1002	12.5	0.006	No	
MSE02-021523	02/15/23	2	522	1044	11.0	0.005	No	
MSE01-021623	02/16/23	1	536	1072	14.5	0.007	No	
MSE02-021623	02/16/23	2	500	1000	13.5	0.007	No	
MSE01-022023	02/20/23	1	501	1002	11.0	0.005	No	
MSE02-022023	02/20/23	2	530	1060	13.0	0.006	No	
MSE01-022123	02/21/23	1	455	910	34.5	0.019	No	
MSE02-022123	02/21/23	2	451	902	100.0	0.071	No	
MSE01-022223	02/22/23	1	609	1218	8.0	0.003	No	
MSE02-022223	02/22/23	2	570	1140	10.5	0.005	No	
MSE01-022323	02/23/23	1	495	990	8.0	0.004	No	
MSE02-022323	02/23/23	2	489	978	6.5	0.003	No	

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Attachment 2: Asbestos Monitoring Results

Notes: ¹Sample "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/cm³ = fibers per cubic centimeter < = below detection limit

ATTACHMENT 3

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

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

Sample, Date and St	Sampler Run Information	PWIU								
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m ³)	Concen-tration in Air (mg/m³)	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)
PM011923-01	1	02/14/23	1635.51	0.05069						
PM011923-03	2	02/14/23	1570.68	0.02801	-0.0227	-22.7	5,000	No	50	No
PM011923-05	1	02/15/23	1804.76	0.02942						
PM011923-07	2	02/15/23	1892.52	0.01030	-0.0191	-19.1	5,000	No	50	No
PM011923-09	1	02/16/23	1748.25	0.01962						
PM011923-11	2	02/16/23	1837.51	0.01219	-0.0074	-7.4	5,000	No	50	No
PM011923-13	1	02/16/23 ²	649.06	0.02049						
PM011923-15	2	02/16/23 ²	666.75	0.02115	0.0007	0.7	5,000	No	50	No
PM011923-20	1	02/21/23	1723.50	0.02582						
PM012023-01	2	02/21/23	1839.27	0.02278	-0.0030	-3.0	5,000	No	50	No
PM012023-03	1	02/22/23	1776.62	0.12214						
PM012023-05	2	02/22/23	1864.77	0.15981	0.0377	37.7	5,000	No	50	No
PM012023-07	1	02/23/23	1763.06	0.01452						
PM012023-09	2	02/23/23	1692.62	0.01075	-0.0038	-3.8	5,000	No	50	No
PM012023-11	1	02/23/23 ²	584.65	0.07953						
PM012023-13	2	02/23/23 ²	586.40	0.00665	-0.0729	-72.9	5,000	No	50	No

Notes:

¹Air sample was not collected on days with rain or when contaminated soil was not disturbed.

²Air sample was taken down during the afternoon after field activities ceased.

³PM10 data is additionally compared to the recommended dust action level of 50 ug/m3 for total PM10 in accordance with the DTSC Human and Ecological Risk Office (HERO) Parcel E Memorandum dated April 29, 2019 (DTSC, 2019) for informational purposes only.

Sample locations are shown on Figure 2-1

Cal/OSHA = California Division of Occupational Safety and Health

HERO = Human and Ecological Risk Office

m³ = cubic meters

mg/m³ = milligrams per cubic meter

PEL = permissible exposure limit

PM10 = particulate matter smaller than 10 microns in diameter

ug/m³ = micrograms per cubic meter

ATTACHMENT 4 TOTAL SUSPENDED PARTICULATES MONITORING RESULTS

Sample, Date and St	ation Inform	ation	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)		Concentration in Air (mg/m ³) between Basew Downwind HPM and Lev Upwind (mg/m		Basewide HPNS Level (mg/m ³)	Exceedance (Yes/No)
TSP011923-02	1	02/14/23	1609.00	0.0864					
TSP011923-04	2	02/14/23	1637.21	0.0548	-0.032	0.5	No		
TSP011923-06	1	02/15/23	1707.05	0.0656					
TSP011923-08	2	02/15/23	1892.50	0.0253	-0.040	0.5	No		
TSP011923-10	1	02/16/23	1649.79	0.0325					
TSP011923-12	2	02/16/23	1834.58	0.0128	-0.020	0.5	No		
TSP011923-14	1	02/16/23 ²	601.18	0.0323					
TSP011923-16	2	02/16/23 ²	495.14	0.0513	0.0190	0.5	No		
TSP011923-21	1	02/21/23	1633.67	0.0375					
TSP012023-02	2	02/21/23	1843.00	0.0303	-0.007	0.5	No		
TSP012023-04	1	02/22/23	1685.75	0.145					
TSP012023-06	2	02/22/23	1877.30	0.112	-0.033	0.5	No		
TSP012023-08	1	02/23/23	1674.06	0.0279					
TSP012023-10	2	02/23/23	1698.06	0.0206	0.049	0.5	No		
TSP012023-12	1	02/23/23 ²	555.28	0.294					
TSP012023-14	2	02/23/23 ²	589.76	0.00797	-0.2860	0.5	No		

Attachment 4: Total Suspended Particulates Monitoring Results

Notes:

¹Air sample was not collected on days with rain or when contaminated soil was not disturbed.

²Air sample was taken down during the afternoon after field activities ceased.

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/m³ = milligrams per cubic meter

ATTACHMENT 5

COPPER, LEAD, AND MANGANESE MONITORING RESULTS

Attachment 5: Copper, Lead, and Manganese Monitoring Results

Sample, Date and Station Information			Sampler Run Information	Сорр	er	Lead	i	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/m³)	Exceedance (Yes/No)	
TSP011923-02	1	02/14/23	1609.00	0.00029149	No	0.00000957	No	< 0.00006091	No	
TSP011923-04	2	02/14/23	1637.21	0.0001075	No	< 0.0000855	No	< 0.00005986	No	
TSP011923-06	1	02/15/23	1707.05	0.0002021	No	0.00001189	No	0.00003626	No	
TSP011923-08	2	02/15/23	1892.50	0.00020449	No	< 0.0000074	No	< 0.00005178	No	
TSP011923-10	1	02/16/23	1649.79	0.00040854	No	0.00004564	No	< 0.0000594	No	
TSP011923-12	2	02/16/23	1834.58	0.00090484	No	< 0.00000763	No	< 0.00005342	No	
TSP011923-14	1	02/16/23 ²	601.18	0.00049403	No	< 0.00002329	No	< 0.00016301	No	
TSP011923-16	2	02/16/23 ²	495.14	0.00292846	No	< 0.00002827	No	< 0.00019792	No	
TSP011923-21	1	02/21/23	1633.67	0.00029933	No	< 0.0000857	No	0.00001787	No	
TSP012023-02	2	02/21/23	1843.00	0.00026099	No	< 0.0000076	No	0.00001205	No	
TSP012023-04	1	02/22/23	1685.75	0.00024677	No	0.00002563	No	0.00006644	No	
TSP012023-06	2	02/22/23	1877.30	0.00011985	No	0.00003217	No	0.00006126	No	
TSP012023-08	1	02/23/23	1674.06	0.00017204	No	< 0.0000836	No	< 0.00005854	No	
TSP012023-10	2	02/23/23	1698.06	0.00010895	No	< 0.0000824	No	< 0.00005771	No	
TSP012023-12	1	02/23/23 ²	555.28	0.00041961	No	0.00002629	No	0.00022331	No	
TSP012023-14	2	02/23/23 ²	589.76	< 0.00016617	No	< 0.00002374	No	< 0.00016617	No	

Notes:

¹Air sample was not collected on days with rain or when contaminated soil was not disturbed.

²Air sample was taken down during the afternoon after field activities ceased.

Sample locations are shown on Figure 2-1

m³ = cubic meters

mg/m³ = milligrams per cubic meter

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

< = below detection limit

ATTACHMENT 6 AIR SAMPLING RESULTS – PUBLIC EXPOSURE MONITORING
GES

AIR SAMPLE RESULTS - PUBLIC EXPOSURE MONITORING

	Project Information / Task Order Number: Project Title / Location: GES Project Number:									Effluent Air Concentration					Sampling Period					Color	Codes		
Contract /	Task Order Nu	imber: Pro	ject Title	/ Locatio	on:		GES Project Nun	nber:					Alpha	Beta	Air s	amples colle	ected		Value < ().1 x Efflue	ent Conc (i.	e., < 10%)	
N6247	3-17-D-0005 /	F4332 HF	PNS Parc	el E Pha	ase 2 RA / Sa	n Francisco, CA	J3	10000400			Rad	ionuclide	Ra-226	Sr-90	between	13 Feb 202	3		Value > 0).1 x Efflue	ent Conc (i.	e., > 10%)	
			Inform	nation eff	fective as of:	07 Mar 2023	•			Ef	fluent Conc	(µCi/ml)	9.E-13	6.E-12	and	23 Feb 202	3		Value :	> Effluent	Conc (i.e., >	> 100%)	
				S	Sample Colle	ction							Count	Informatio	n				Sample	Results		Init	ials
Sample	Sample	Sample	,	Equip	Ave Flow	Start	End	Elapsed	Volume	Inst	Count	Time	Counting	Gross	Activity	Net	dpm	Activity	(µCi/ml)	Effluent	Conc (%)	Count	Data
Number	Туре	Location	n	No	Rate (lpm)	Day Time	Date Time	Time (min)	(ml)	No	Date	(min)	Units	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta	Tech	Reviewer
AS-0765	Perimeter	MSE01		PE13	50	2/13/23 9:00	2/13/23 14:50	350	1.7E+07	В	02/20/23	1	cpm	0.20	3.85	0.3	4.8	8.7E-15	1.2E-13	1.0%	2.1%	BCS	JIH
AS-0766	Perimeter	MSE02)	PE14	50	2/13/23 9:00	2/13/23 14:50	350	1.7E+07	В	02/20/23	1	cpm	0.20	3.30	0.3	3.2	8.7E-15	8.2E-14	1.0%	1.4%	BCS	JIH
AS-0767	Perimeter	MSE01		PE13	50	2/14/23 6:50	2/14/23 15:22	512	2.6E+07	В	02/20/23	1	cpm	0.00	4.55	-0.3	6.8	N/A	1.2E-13	N/A	2.0%	BCS	JIH
AS-0768	Perimeter	MSE02)	PE14	50	2/14/23 6:50	2/14/23 15:22	512	2.6E+07	В	02/20/23	1	cpm	0.20	3.40	0.3	3.5	5.9E-15	6.1E-14	0.7%	1.0%	BCS	JIH
AS-0769	Perimeter	MSE01		PE13	50	2/15/23 6:52	2/15/23 15:32	520	2.6E+07	В	02/20/23	1	cpm	0.20	3.15	0.3	2.8	5.8E-15	4.8E-14	0.6%	0.8%	BCS	JIH
AS-0770	Perimeter	MSE02)	PE14	50	2/15/23 6:58	2/15/23 15:24	506	2.5E+07	В	02/20/23	1	cpm	0.00	2.95	-0.3	2.2	N/A	3.9E-14	N/A	0.6%	BCS	JIH
AS-0771	Perimeter	MSE01		PE13	50	2/16/23 6:58	2/16/23 15:27	509	2.5E+07	В	02/20/23	1	cpm	0.15	4.90	0.2	7.8	3.0E-15	1.4E-13	0.3%	2.3%	BCS	JIH
AS-0772	Perimeter	MSE02)	PE14	50	2/16/23 6:57	2/16/23 15:32	515	2.6E+07	В	02/20/23	1	cpm	0.25	4.00	0.5	5.2	8.8E-15	9.1E-14	1.0%	1.5%	BCS	JIH
AS-0773	Perimeter	MSE01		PE13	50	2/20/23 6:50	2/20/23 16:02	552	2.8E+07	В	02/27/23	1	cpm	0.10	4.30	0.0	6.1	0.0E+00	9.9E-14	0.0%	1.7%	JSV	BCS
AS-0774	Perimeter	MSE02)	PE14	50	2/20/23 6:52	2/20/23 16:00	548	2.7E+07	В	02/27/23	1	cpm	0.25	4.40	0.5	6.4	8.3E-15	1.0E-13	0.9%	1.7%	JSV	BCS
AS-0775	Perimeter	MSE01		PE13	50	2/21/23 6:52	2/21/23 15:42	530	2.6E+07	В	02/27/23	1	cpm	0.15	4.30	0.2	6.1	2.9E-15	1.0E-13	0.3%	1.7%	JSV	BCS
AS-0776	Perimeter	MSE02)	PE14	50	2/21/23 6:45	2/21/23 15:32	527	2.6E+07	В	02/27/23	1	cpm	0.20	4.80	0.3	7.5	5.8E-15	1.3E-13	0.6%	2.1%	JSV	BCS
AS-0777	Perimeter	MSE01		PE13	50	2/22/23 7:15	2/22/23 15:57	522	2.6E+07	В	02/27/23	1	cpm	0.20	3.50	0.3	3.8	5.8E-15	6.5E-14	0.6%	1.1%	JSV	BCS
AS-0778	Perimeter	MSE02	2	PE14	50	2/22/23 6:52	2/22/23 15:50	538	2.7E+07	В	02/27/23	1	cpm	0.20	3.80	0.3	4.6	5.6E-15	7.8E-14	0.6%	1.3%	JSV	BCS
AS-0779	Perimeter	MSE01		PE13	50	2/23/23 6:39	2/23/23 14:59	500	2.5E+07	В	02/27/23	1	cpm	0.30	3.85	0.7	4.8	1.2E-14	8.6E-14	1.3%	1.4%	JSV	BCS
AS-0780	Perimeter	MSE02	2	PE14	50	2/23/23 7:02	2/23/23 15:05	483	2.4E+07	В	02/27/23	1	cpm	0.30	4.00	0.7	5.2	1.3E-14	9.7E-14	1.4%	1.6%	JSV	BCS

ATTACHMENT 7 LABORATORY REPORTS

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Laboratory Analysis Report

Job ID: 23022223



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:	9
	Attn:		P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	02/22/2023 09:22
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Client Sample ID MSE01-021323	Sample Collection Date & Time 2/13/2023 15:02	Matrix Cassette	A&B Job Sample ID 23022223.01
MSE02-021323	2/13/2023 14:53	Cassette	23022223.02
MSE01-021423	2/14/2023 15:36	Cassette	23022223.03
MSE02-021423	2/14/2023 15:31	Cassette	23022223.04
MSE01-021523	2/15/2023 15:31	Cassette	23022223.05
MSE02-021523	2/15/2023 15:38	Cassette	23022223.06
MSE01-021623	2/16/2023 15:49	Cassette	23022223.07
MSE02-021623	2/16/2023 14:58	Cassette	23022223.08



Analyst:



This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Any TWA calculations are based on client supplied data not lab observation.

ab-q210-0321

3/1/2023



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 3/1/2023

Job ID: 23022223 Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES -	ASRC Industrial		Project: J31	0000400 / H	lunters Po	oint Shipy	ard, Parcel E	Removal S	Site Eval	uation		Attn:			
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
23022223.01	MSE01-021323	02/13/2023	Area	2			458	916	100	13.0	16.561	0.007		03/01/23	
23022223.02	MSE02-021323	02/13/2023	Area	2			420	840	100	14.0	17.834	0.008		03/01/23	
23022223.03	MSE01-021423	02/14/2023	Area	2			534	1068	100	8	10.191	0.004		03/01/23	
23022223.04	MSE02-021423	02/14/2023	Area	2			544	1088	100	15.0	19.108	0.007		03/01/23	
23022223.05	MSE01-021523	02/15/2023	Area	2			501	1002	100	12.5	15.924	0.006		03/01/23	
23022223.06	MSE02-021523	02/15/2023	Area	2			522	1044	100	11.0	14.013	0.005		03/01/23	
23022223.07	MSE01-021623	02/16/2023	Area	2			536	1072	100	14.5	18.471	0.007		03/01/23	
23022223.08	MSE02-021623	02/16/2023	Area	2			500	1000	100	13.5	17.197	0.007		03/01/23	

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

Sr Value

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

OUTR = Overload, Unable To Read

Sample Condition Checklist



A&	B JobID : 23022223	Date Received : 02/22/2023 Time Received : 9:2	22AM		
Clie	ent Name : GES - ASRC Industrial				
Ter	nperature : 22.0°C	Sample pH : NA			
The	ermometer ID : IR4	pH Paper ID : NA			
Pe	rservative :			1	1
		Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.		х		
2.	Sample(s) in a cooler.			х	
3.	If yes, ice in cooler.				х
4.	Sample(s) received with chain-of-custo	ody.	х		
5.	C-O-C signed and dated.		х		
6.	Sample(s) received with signed sample	e custody seal.		х	
7.	Sample containers arrived intact. (If N		х		
8.	Water Soil Liquid Slu Matrix:	Idge Solid Cassette Tube Bulk Badge Food Other			
9.	Samples were received in appropriate	container(s)	х		
10.	Sample(s) were received with Proper p	reservative			Х
11.	All samples were tagged or labeled.		х		
12.	Sample ID labels match C-O-C ID's.		х		
13.	Bottle count on C-O-C matches bottles	found.	х		
14.	Sample volume is sufficient for analyse	es requested.	х		
15.	Samples were received with in the hold	I time.	х		
16.	VOA vials completely filled.				Х
17.	Sample accepted.		х		
18.	Has client been contacted about sub-o	ut			Х

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. ~ 2/22/2023

Received by :

Check in by/date : / 02/22/2023



Project Name: Hunters Point	Shipyard, Parce	E Removal Sit	te Evaluation		Lab	orator	: A&B I	Labs									Event: Pa	arcel E Asbestos
Project Number: J310000400					POO	10 M H											_	
VBS Code: J310000400					Ship	p to: 1	0100 Ea	ist Fw	y Ste. 1	00 Houst	on TX 7	7029						
comments:				Analytical Test Method	Asbestos							ode Con		e				Page 1 o
Equipment:				Analyti														
Event: Parcel E Asbestos					1									-	-			
Sample ID	Matrix	Date	Time	Samp Init.)							Loc	ation ID	Samp Type		Depth (ft bgs)	Cooler	Comments
1 MSE01-021323		Diala	1502	tint.	x		+ +	-				N	ISE01		N1	0.00	1	
2 MSE02-021323	A	2 13/23	1453	-	×	+ +		1				N	ISE02		N1	0.00	1	
2 MSE02-021323		415/23	122														_	
4									_		_			-	-		-	
5				-	-	-	-	_		-	-			1				
6				-	+	-		-			-	-		4	-			
7				-	+	+		-	-	-				-	-			
8					+	+			-									
10					+									1.1				
11																		
Turnaround Time: 7 days													Time	Chinning	Data / Ca	rier / Airbill Nu	mber	
Relinquished by: (Signature)	Date	Time	Received	d by:	(Sign	ature)					Date	Time			/21/23 / FED		15 7317
	1	2/21/23	1610	Fed	6						24		160			atory: (Signatur		
Fedex	1	122/23	9:22								2/2	2/23	3 9:22	loopivou	.,			

22.0 IR4

Nullas

Pro	oject Name: Hunters Point Shipy	ard, Parcel	E Removal Site	e Evaluation		La	borato	ry: A	&B Lab	s								Event: Parc	el E Asbestos
	pject Number: J310000400				-		DC:												
1.00	3S Code: J310000400	-				Sh	nip to:	10100	East F	wy Ste.	100 Hous	ston TX 77	029						
										_			- 14	to for					Page 2 o
Co	mments:											Cod	_	atrix				-	rage 2 0
														r Quality Cont	trol Matrix	_		-11	
														Quality Ser					
					pout	stos	2010					Co	de Co	ntainer/Preservati	Y8				
					Me	Asbestos						1	1 Filt	er/No Preservativ	es			1	
					Analytical Test Method													-	
í.					tical														
En	winment!			-	naly														
Eq	Event: Parcel E Asbestos				A	1	1						-		-				
_	Event i area a rissource	1			Sam	-									Sample	1	Depth (ft bgs)	Cooler	Comments
	Sample ID	Matrix	Date	Time	Init								Lo	cation ID	Туре		Top - Bottom	Cooler	Commenta
-	1 MSE01-021423	A	2/14/23	1536		>	×	T					ħ	MSE01	N1	N1	0.00	1	
-	2 MSE02-021423	A	2/14/23	153		>	x					- 10	1	MSE02	N1	N1	0.00	1	
	3		-p yes									-		_					
-	4																	-	
	5													_	-				
	6				-	-										-		+ +	
	7					_	-		-			-			-	-		-	
	8			<u></u>	-	-	-		-							-			
	9	-			-	+	+	++	-					-		-			2/2/23
	10	-		-	-	+	+	++	-	++		++			-				Mari
	urnaround Time: 7 days						_	11	1				-						
1.0	telinquished by: (Signature)		Date	Time	Receive	d by:	: (Sigr	natur	e)	-		Da	ate	Time	Shipping Da	te / Car	rier / Airbill Num	ber	
H	teninquianed by, (orgination)	-	1									al	1	1.	Shipping I	Date:02	/21/23 / FEDE	X 7712 6215	7317
		-	2/21/23	1000	Fid	K						2/21	23	160					-
H						4						21.0	1	a		Labora	atory: (Signature,	Date, Time) &	condition
	Fedex		2/22/23	9:22								2/22	123	9:22					



Gilbane Federa 1655 Grant Street, Suite 1200, Concord, CA 94520

COC ID # 022123ASBE



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

Con	nments:				Analytical Test Method	Asbestos							A Air	atrix Quality Coni ntainer:Preservati er/No Preservative	IVE				Page 3 o
Equ	upment:				Anal														
	Event: Parcel E Asbestos		-		15	1			11			11							
			Data	Time	Samp								1.00	ation ID	Sample	1	Depth (ft bgs)	Carles	0
	Sample ID	Matrix	Date	Time	Init.	1							LUC	ation ID	Туре	1	Top - Bottom	- Cooler	Comments
	MSE01-021523	A	215/23	1521		×				_			N	ISE01	N1	0.00	0.00	1	
2	MSE02-021523	A	2/15/23	1531		×							N	ISE02	N1	0.00	0.00	1	
3			1.1.2		1										1111				
4																			
5	Aug						-	-	-			\downarrow							
6					-	_			+										
7					-	-	-		++		_	+							
8		-	-		-	-	-		+		-	+ +							
9		-		1		-	-		++	-	-	+							Anto
11		-			-	+	-		++		-	+			-	-		-	2 MI
	naround Time: 7 days				-	-		Ц							-				
-	inquished by: (Signature)	-	Date	Time	Received	by:	Signa	ature)	_			1	Date	Time	Shipping Da	te / Carri	er / Airbill Numb	er	
		2	11	1600	Ked (2/2	1/23			100 C	21/23 / FEDEX		57317
			1 1 - 1	_	nai	2		-							Received by	Laborat	ory: (Signature, D	ate Time) \$	condition
F	Fed ex	2	122/23	9:22							1	4	22/23	9:22			er j r (ergrenerer e		
															2	2 () IR4		

Page 6 of 9

Gilbane Federal 1655 Grant Street, Suite 1200, Concord, CA 94520

COC ID # 022123ASBE



Project Name: Hunters Point Shipyard, Parcel E Removal Site Evaluation	Laboratory: A&B Labs	Event: Parcel E Asbestos
Project Number: J310000400	POC: /	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

	priments: quipment: Event: Parcel E Asbestos				Analytical Test Method	Asbestos							Code Con		e				Page 4 o
-	Event: Parcei E Asbestos	1	-	-	1	1				-			-	_	-	D	epth (ft bgs)	-	
	Sample ID	Matrix	Date	Time	Samp Init.								Loc	ation ID	Sample Type		op - Bottom	Cooler	Comments
n	1 MSE01-021623	A	2/16/23	1549		x							M	SE01	N1	0.00	0.00	1	1
A	2 MSE02-021623	A	2/16/23	1458		×							М	SE02	N1	0.00	0.00	1	
	4	-			-			-	\vdash	-			_		-				
	5					+		+	+	+		+	-		-			-	1
	6				-				+			\square							
	7									-									
	8	1																/	
	9	1						-		_			_			-	_	1	. 1
	1	-		-	-	+		-	+	-		\vdash			-			VU	25
	urnaround Time: 7 days			-	-					-					_				1
R	elinquished by: (Signature)		Date	Time F	Received I	by: (S	Signa	ture)					Date	Time S	Shipping Dat	te / Carrie	r / Airbill Numb	er	
		2	1/2/23	1600	Fide	X					-	2/2	1/23	1600	Shipping D	ate:02/2	1/23 / FEDEX	7712 621	5 7317
	Feder	2	122/23	9:22									2/23	9:22	Received by	Laborato	ry: (Signature, L	Date, Time)	& condition

COC ID # 022123ASBE

	ject Name: Hunters Point Shipyard, Parcel E Removal Site Evaluation										
WBS Code: J31000040	28 Y 24 X										
Sample ID	End Date	End Time	Flow Rate (L/min), Total Time (mins)								
MSE01-021323	13-Feb	15:02	2; 458								
MSE02-021323	13-Feb	14:53	2; 420								
MSE01-021423	14-Feb	15:36	2; 534								
MSE02-021423	14-Feb	15:31	2; 544	1							
MSE01-021523	15-Feb	15:31	2; 501								
MSE02-021523	15-Feb	15:38	2; 522	1							
MSE01-021602	16-Feb	15:49	2; 536								
MSE02-021602	16-Feb	14:58	2; 500	-							



Laboratory Analysis Report

Job ID: 23030024



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:	10
	Attn:		P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	03/01/2023 10:26
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Client Sample ID MSE01-022023	Sample Collection Date & Time 2/20/2023 15:23	Matrix Cassette	A&B Job Sample ID 23030024.01
MSE02-022023	2/20/2023 15:29	Cassette	23030024.02
MSE01-022123	2/21/2023 14:08	Cassette	23030024.03
MSE02-022123	2/21/2023 13:56	Cassette	23030024.04
MSE01-022223	2/22/2023 16:53	Cassette	23030024.05
MSE02-022223	2/22/2023 16:06	Cassette	23030024.06
MSE01-022323	2/23/2023 15:02	Cassette	23030024.07
MSE02-022323	2/23/2023 14:46	Cassette	23030024.08

Title:	Senior Project Manager

Analyst:



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3/9/2023

Laboratory Report: Case Narrative



A&B Job ID: 23030024

Date: 03/09/23

Attn:

Client Name:	GES - ASRC Industrial
Project Name:	J310000400 / Hunters Point Shipyard, Parcel E Removal Site Evaluation
Date Received:	03/01/23
Collected By:	

Revised report - The attached report is revised for the collection time for sample .05.

All data reported in this analytical report is in compliance with NELAC standards unless otherwise noted in the sample receipt checklist or case narrative. Any other exceptions associated with this report will be qualified in the analytical result page(s) and/or the quality control summary page(s). Data qualifiers are defined in the Term and Qualifier Definition Report page.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random, unless specified by client, from an analytical batch of "like" matrix to check for possible matrix effects. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory.

Some of the MS/MSD percent recoveries and RPDs on the QC report may be different than the calculated recoveries and RPDs using the sample result and the MS/MSD results listed on the report because the actual raw result is used to perform the calculations for percent recovery and RPD.

The results contained in this report are only representative of the samples received. A&B Labs is not responsible for use or interpretation of the data results included herein.

Please do not hesitate to contact us with any questions or concerns regarding your laboratory report. A&B Labs is pleased to be of service to you and we look forward to fulfilling all of your future analytical needs.



Title: Senior Project Manager



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 3/9/2023

Job ID: 23030024 Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES -	Client: GES - ASRC Industrial Project: J310000400 / Hunters Point Shipyard, Parcel E Removal Site Evaluation Attn:														
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
23030024.01	MSE01-022023	02/20/2023	Area	2			501	1002	100	11.0	14.013	0.005		03/08/23	
23030024.02	MSE02-022023	02/20/2023	Area	2			530	1060	100	13.0	16.561	0.006		03/08/23	
23030024.03	MSE01-022123	02/21/2023	Area	2			455	910	100	34.5	43.949	0.019		03/08/23	
23030024.04	MSE02-022123	02/21/2023	Area	2			451	902	77	100.0	165.440	0.071		03/08/23	
23030024.05	MSE01-022223	02/22/2023	Area	2			609	1218	100	8	10.191	0.003		03/08/23	
23030024.06	MSE02-022223	02/22/2023	Area	2			570	1140	100	10.5	13.376	0.005		03/08/23	
23030024.07	MSE01-022323	02/23/2023	Area	2			495	990	100	8.0	10.191	0.004		03/08/23	
23030024.08	MSE02-022323	02/23/2023	Area	2			489	978	100	6.5	8.280	0.003		03/08/23	

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

Sr Value

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

OUTR = Overload, Unable To Read

Sample Condition Checklist



A&	&B JobID : 23030024 Date Received : 03/01/2023 Time Received : 10:26AM											
Clie	Client Name : GES - ASRC Industrial											
Ter	nperature : 23.3°C	Sample pH : NA										
The	rmometer ID : IR4	pH Paper ID : NA										
Pe												
		Check Points	Yes	No	N/A							
1.	Cooler Seal present and signed.		Х									
2.	Sample(s) in a cooler.			х								
3.	If yes, ice in cooler.				Х							
4.	Sample(s) received with chain-of-custo	ody.	х									
5.	C-O-C signed and dated.		х									
6.	6. Sample(s) received with signed sample custody seal.											
7.	7. Sample containers arrived intact. (If No comment)											
8.	Water Soil Liquid Slu Matrix:	dge Solid Cassette Tube Bulk Badge Food Other Image: Im										
9.	Samples were received in appropriate of	container(s)	Х									
10.	Sample(s) were received with Proper p	reservative			Х							
11.	All samples were tagged or labeled.		Х									
12.	Sample ID labels match C-O-C ID's.		х									
13.	Bottle count on C-O-C matches bottles	found.	х									
14.	14. Sample volume is sufficient for analyses requested.											
15.	х											
16.			Х									
17.	Sample accepted.		х									
18.	Has client been contacted about sub-ou	ıt			Х							

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. ~ 03/01/23

Received by :

Check in by/date : / 03/01/2023

www.ablabs.com

Proi	ect Name: Hunters Point Shipy	ard, Parcel	E Removal Site	e Evaluation	Laboratory; A&B Labs										Event: Parcel E Asbestos					
	ect Number: J310000400				-	P	DC:						1							
1	Code: J310000400					Ship to: 10100 East Fwy Ste. 100 Houston TX 77029														
-										_			Ha	. 1.		_				Page 1
Con	ments:				-		N	-						-	Matrix				-	raget
-		_		_	-	+	-		-		-				Air Quality Control	Matrix			-	
					1										in second waters				1	
					hod	Achaelae	COLC.		X	1	1		0	ode C	andainer/Preservative				1	
					Met	the last	pner			N/S	31			1 6	RenNo Preservatives					
					Test						12	3							1	
					tical														1	
	Toron and t				Analytical Test Method							N							1	
equ	Event: Parcel E Asbestos				A	+	-		-		-	+	+	-					1	
-	Event Parcei E Asocaloa	1	-		100	-	-		-		-		-	-		Sample	De	epth (ft bgs)		Commente
	Sample ID	Matrix	Date	Time	Sam									L	ocation ID	Type	Te	op - Bottom	Cooler	Comments
1	MSE01-022023	A	02/20/2023	1523			x								MSE01	N1	0.00	0.00	1	
2	MSE02-022023	A	02/20/2023	1529	1		×								MSE02	N1	0.00	0.00	1	
3																				
4			1			1											1			
5																1				
6		1.00			-	-	-				-	A	-	_		JC	b II	D:230	30024	+ _
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8								++-	+		ľ	19	P	>	-					
9					-	-	-	11	-		-	++	-			3/01/202	3	ES - ASRC	Industrial	ACH
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11													-	_		1	1		1 1	
	naround Time: 7 days	-		1 7 1	Dessla	d bu	/Sim	atural	_			-	D	late	Time S	Shipping Da	te / Carrie	er / Airbill Numb	ber	
Rel	inquished by: (Signature)		Date	Time	Receive	a by	Isign	ature)	1	-				1	-			8/23 / FEDEX		996
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		4	112012	1700		-	1	u	5	-	_	-	210	-	/			Signature, I	Date, Time) & c	ondition
																			3-1-7	1.01

23.300 JA

Gilbane Federal 1655 Grant Street, Suite 1200, Concord, CA 94520

COC ID # 022823ASBE



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

	Comments:						V			-				Code Matri						Page 2 of 4
	Equipment:				Analytical Test Method	Asbestos				2/2	2.5%	123		Code Conta	Duality Control	I Matrix				
	Event: Parcel E Asbestos				-	1														
	Sample ID	Matrix	Date 2/21/23	Time	Samp Init.									Locat	tion ID	Sample Type	-	epth (ft bgs) op - Bottom	Cooler	Comments
70	1 MSE01-022123	A	02/22/2022	1408		x		-		-	1			MS	SE01	NI	0.00	0.00	1	
30	2 MSE02-022123	A	02/22/2023- 212623 02/22/2023	1356		×		-		-		Π		MS	SE02	N1	0.00	0.00	1	
1.00	4				-	+	H	-			-	+			_	11-16		1		
	5				1			1.0												
	6				-	-	-		+	, 11	-		,			_			-	
	8	-			-	-	+		7	54	22	*/	2	3		1				
	9							1						-		-			-	
	10															171.5			-	
	11							1												
	Turnaround Time: 7 days Relinquished by: (Signature)		Date	Time F	Received	by: (Signa	ture)	-		-	1	-	Date	Time S	hipping Da	te / Carr	ier / Airbill Numb	er	
		4	2/28/23	1400		F	P	de	x	-			2	128/23	1400	Shipping I	Date:02/	28/23 / FEDEX	7713 281	79 2996
	Ficht		3-1-23			1		2 -	~~									Signature, D	late, Time) 3 -)-	& condition 23 (026

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Gilbane Federal 1655 Grant Street, Suite 1200, Concord, CA 94520

COC ID # 022823ASBE



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

C	comments:													Code Matrix A Air	_						Page 3 of
E	Equipment:				Analytical Test Method	Asbestos				2/2	\$	23		AQ Air Qualit	Testo y Blive	il Matrix					
F	Event: Parcel E Asbestos				A	1							1								
	Sample ID	Matrix	Date 2122123	Time	Samp Init.									Location I	D	Sample Type		epth (ft bgs) op - Bottom	Cooler	-	Comments
	1 MSE01-022223	A	and the second s	1653		×		-						MSE01		N1	0.00	0.00	1	\langle	
A g	2 MSE02-022223	A	02/23/2002 2125/2 02/23/2002	1606		×	+ +			-			-	MSE02		N1	0.00	0.00	1		
+	3	-			-	+	$\left \right $	+	+	+	-	+	+	1	-						
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-	6					+	+			_	+		-	1	_	-			+		/
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t	9													/						-	/
Ī	10										-		-		_	-	_		-	-	
-	11	_			1.0	1								_					_	-	-
	Turnaround Time: 7 days Relinquished by: (Signature)	- 1	Date	Time F	Received	by: (Signa	ture)		-		T	-	Date T	Time S	hipping Da	te / Carri	er / Airbill Num	ber	-	
1			2/28/23	1400			F	PG	10	X			21	28/23 11	100	Shipping D)ate:02/2	28/23 / FEDE	X 7713 283	79 2996	
	Feder		3-1-23	1-0						10					R	24			Date, Time)		1026

Gilbane Federal 1655 Grant Street, Suite 1200, Concord, CA 94520

COC ID # 022823ASBE



Project Name: Hunters Point Shipyard, Parcel E Removal Site Evaluation	Laboratory: A&B Labs	Event: Parcel E Asbestos
Project Number, 3310000400	POC:	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comme	ents						V			-				A Air							Page 4 o
Equipn	nent:				Analytical Test Method	Asbestos				8	120	in the second	-	Code Contair	uality Control wr/Pressrvativet	Matrix					
1.1.1.1	vent: Parcel E Asbestos	-			4	1											-			-	
Sa	mple ID	Matrix	Date	Time	Samp Init.									Locati	ion ID	Sample Type		epth (ft bgs) op - Bottom	- Cooler		Comments
1 1.1	E01-022323	A	02/23/2023	1502		×		+			-	-		MSI	E01	NT	0.00	0.00	1		
	SE02-022323	A	02/23/2023	1446		×		-			-	-		MS	E02	N1	0.00	0.00	1		
3_				1970	-		H	-			-	-							-		
4		-	-		-	+		+			-	+									
6			1	1	-			-	0	1											1
7								1	\square	1	24	21	2	2		-	-		-	-	1
8										1 4	10	10	C	7						-	
9									-		-	-	-	/		-			-	1	
10					-	-		-	-		-	-	-			-	-				-
11	and Winner Widows	-			-			-				-			_	1	-		_	1	
1 1 1 miles	round Time: 7 days uished by: <i>(Signature)</i>	- 1	Date	Time	Received	by: (Signa	ture)	-	-		-	T	Date	Time St	nipping Da	te / Carri	er / Airbill Num	ber		
Training	anaria al faiduna ol		ebslez				F	P	It	V			2	28/23	1400	hipping I	Date:02/	28/23 / FEDE	X 7713 28	79 2996	
	Edia		3-1-23	100			1	40		~					R			Signature,	Date. Time)	& condition	1026

COC ID # 022823ASBE

Project Name: Hunters	Point Shipyar	rd, Parcel E Rei	moval Site Evaluation	Event: Parcel E Asbestos
Project Number: J3100	000400			
WBS Code: J31000040	0	1		
Sample ID	End Date	End Time	Flow Rate (L/min), Total Time (mins)	
MSE01-022023	20-Feb	15:23	2; 501	
MSE02-022023	20-Feb	15:29	2; 530	
MSE01-022123	21-Feb	14:08	2; 455	
MSE02-022123	21-Feb	13:56	2; 451	
MSE01-022223	22-Feb	16:53	2; 609	
MSE02-022223	22-Feb	16:06	2; 570	
MSE01-022323	23-Feb	15:02	2; 495	
MSE02-022323	23-Feb	14:46	2; 489	



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.

fraudulent and could result in tal label for shipping. Using a photocopy of this label for shipping purposes is

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Precious metals, negotiable instrum FedEx Service Guide



February 28, 2023

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

Laboratory Workorder ID: B054015

Client Project ID:J310000400 PARCEL E HUNTERS PTReceived:February 23, 2023Reported:February 28, 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.



Technical Director

Enclosures



Final Report								
Work Order B054015								
AIS-GES, LLC 1501 W. FOUNTAINHEAD PKWY, #550			Customer: Attention:	PARCELE1			Date Received	l: 02/23/23
TEMPE, AZ 85282			PO Number	J310000400-01	6		Client Project	ID J310000400 PARCEL E HUNTERS PT
Lab ID: B054015001 Sample ID:	PM011923-01 AMSE	1		Media:	8X10 PREWEIG	HED GLASS	Sample Date:	2/14/2023 6:39:00 AM
Analyte	Method	Analysis Date	s Volume	Reporting Limit	g Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	02/24/23	1635510 L	1000 ug			82900 ug	51 ug/M3
Lab ID: B054015002 Sample ID:	TSP011923-02 AMSE	1		Media:	8X10 PREWEIG	HED GLASS	Sample Date:	2/14/2023 6:39:00 AM
Analyte	Method	Analysis Date	s Volume	Reporting Limit	9 Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	02/24/23	1609000 L	1000 ug			139000 ug	86 ug/M3
Copper	40CFR50App.G Mod./EI 6010B	PA 02/28/23	1609000 L	98 ug			469 ug	0.2915 ug/M3
Lead	40CFR50App.G Mod./El 6010B	PA 02/28/23	1609000 L	14 ug			15.4 ug	0.0096 ug/M3
Manganese	40CFR50App.G Mod./EI 6010B	PA 02/28/23	1609000 L	98 ug			< 98 ug	< 0.0609 ug/M3
Lab ID: B054015003 Sample ID:	PM0110923-03 AMSE	2		Media:	8X10 PREWEIG	HED GLASS	Sample Date:	2/14/2023 6:33:00 AM
Analyte	Method	Analysis Date	s Volume	Reporting Limit	9 Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	02/24/23	1570680 L	1000 ug			44000 ug	28 ug/M3



Final Report

			_							
Lab ID: B054015004	Sample ID:	TSP011923-04	AMSE2			Media: 8X	10 PREWEIG	HED GLASS	Sample Date:	2/14/2023 6:33:00 AM
Analyte		Method		Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Parti	culates	40CFR50 App.E	3	02/24/23	1637210 L	1000 ug			89700 ug	55 ug/M3
Copper		40CFR50App.G 6010B	6 Mod./EPA	02/28/23	1637210 L	98 ug			176 ug	0.1075 ug/M3
Lead		40CFR50App.G 6010B	6 Mod./EPA	02/28/23	1637210 L	14 ug			< 14 ug	< 0.0086 ug/M3
Manganese		40CFR50App.G 6010B	Mod./EPA	02/28/23	1637210 L	98 ug			< 98 ug	< 0.0599 ug/M3
Lab ID: B054015005	Sample ID:	PM011923-05	AMSE1			Media: 8X	10 PREWEIG	HED GLASS	Sample Date:	2/15/2023 7:12:00 AM
Analyte		Method		Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates		40CFR50 App.J	I	02/24/23	1804760 L	1000 ug			53100 ug	29 ug/M3
Lab ID: B054015006	Sample ID:	TSP011923-06	AMSE1			Media: 8X	10 PREWEIG	HED GLASS	Sample Date:	2/15/2023 7:12:00 AM
Analyte		Method		Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Parti	culates	40CFR50 App.E	3	02/24/23	1707050 L	1000 ug			112000 ug	66 ug/M3
Copper		40CFR50App.G 6010B	Mod./EPA	02/28/23	1707050 L	98 ug			345 ug	0.2021 ug/M3
Lead		40CFR50App.G 6010B	Mod./EPA	02/28/23	1707050 L	14 ug			20.3 ug	0.0119 ug/M3
Manganese		40CFR50App.G 6010B	Mod./EPA	02/28/23	1707050 L	98 ug			61.9 ug	0.0363 ug/M3



Final Report

			_							
Lab ID: B054015007	Sample ID:	PM011923-07	AMSE2			Media: 8X	10 PREWEIG	HED GLASS	Sample Date:	2/15/2023 6:58:00 AM
Analyte		Method		Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates		40CFR50 App.	l	02/24/23	1892520 L	1000 ug			19500 ug	10 ug/M3
Lab ID: B054015008	Sample ID:	TSP011923-08	AMSE2			Media: 8X	(10 PREWEIG	HED GLASS	Sample Date:	2/15/2023 6:58:00 AM
Analyte		Method		Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Partic	culates	40CFR50 App.E	3	02/24/23	1892500 L	1000 ug			47900 ug	25 ug/M3
Copper		40CFR50App.G 6010B	Mod./EPA	02/28/23	1892500 L	98 ug			387 ug	0.2045 ug/M3
Lead		40CFR50App.G 6010B	Mod./EPA	02/28/23	1892500 L	14 ug			< 14 ug	< 0.0074 ug/M3
Manganese		40CFR50App.G 6010B	Mod./EPA	02/28/23	1892500 L	98 ug			< 98 ug	< 0.0518 ug/M3
Lab ID: B054015009	Sample ID:	PM011923-09	AMSE1			Media: 8X	10 PREWEIG	HED GLASS	Sample Date:	2/16/2023 6:54:00 AM
Analyte		Method		Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates		40CFR50 App.		02/24/23	1748250 L	1000 ug			34300 ug	20 ug/M3
Lab ID: B054015010	Sample ID:	TSP011923-10	AMSE1			Media: 8X	(10 PREWEIG	HED GLASS	Sample Date:	2/16/2023 6:54:00 AM
Analyte		Method		Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Partic	culates	40CFR50 App.E	3	02/24/23	1649790 L	1000 ug			53600 ug	32 ug/M3



Final Report

Lab ID: B054015010	Sample ID:	TSP011923-10	AMSE1			Media: 8X2	10 PREWEIGH	HED GLASS	Sample Date:	2/16/2023 6:54:00 AM
				Analysis		Reporting				
Analyte		Method		Date	Volume	Limit	Front	Rear	Total	Concentration
Copper		40CFR50App.G 6010B	Mod./EPA	02/28/23	1649790 L	98 ug			674 ug	0.4085 ug/M3
Lead		40CFR50App.G 6010B	Mod./EPA	02/28/23	1649790 L	14 ug			75.3 ug	0.0456 ug/M3
Manganese		40CFR50App.G 6010B	Mod./EPA	02/28/23	1649790 L	98 ug			< 98 ug	< 0.0594 ug/M3
Lab ID: B054015011	Sample ID:	PM011923-11	AMSE2			Media: 8X	10 PREWEIGH	HED GLASS	Sample Date:	2/16/2023 6:43:00 AM
Analyte				Analysis Date		Reporting Limit	_	_		• • • •
Analyte		Method		Dale	Volume	LIIIII	Front	Rear	Total	Concentration
PM10 Particulates		40CFR50 App.J		02/24/23	1837510 L	1000 ug	Front	Rear	22400 ug	12 ug/M3
•	Sample ID:		AMSE2			1000 ug	Front			
PM10 Particulates	Sample ID:	40CFR50 App.J	AMSE2			1000 ug			22400 ug	12 ug/M3
PM10 Particulates Lab ID: B054015012		40CFR50 App.J TSP011923-12		02/24/23 Analysis	1837510 L	1000 ug Media: 8X*	10 PREWEIGH	HED GLASS	22400 ug Sample Date:	12 ug/M3 2/16/2023 6:43:00 AM
PM10 Particulates Lab ID: B054015012 Analyte		40CFR50 App.J TSP011923-12 Method		02/24/23 Analysis Date	1837510 L Volume	1000 ug Media: 8X7 Reporting Limit	10 PREWEIGH	HED GLASS	22400 ug Sample Date: Total	12 ug/M3 2/16/2023 6:43:00 AM Concentration
PM10 Particulates Lab ID: B054015012 Analyte Total Suspended Partic		40CFR50 App.J TSP011923-12 Method 40CFR50 App.B 40CFR50 App.G	Mod./EPA Mod./EPA	02/24/23 Analysis Date 02/24/23	1837510 L Volume 1834580 L	1000 ug Media: 8X ² Reporting Limit 1000 ug	10 PREWEIGH	HED GLASS	22400 ug Sample Date: Total 23400 ug	12 ug/M3 2/16/2023 6:43:00 AM Concentration 13 ug/M3



Final Report

Lab ID: B054015013	Comple ID:	PM011923-13	AMSE1				Madia: 0			IED GLASS	Sample Date:	2/46/2022 2:22:00 DM
Lab ID: 6054015013	Sample ID:	PIMOT 1923-13	AMSET				iviedia. c		EWEIGF	IED GLASS	Sample Date.	2/16/2023 3:33:00 PM
				Analysis			Reporting					
Analyte		Method		Date	Volume		Limit	Fro	ont	Rear	Total	Concentration
PM10 Particulates		40CFR50 App.J		02/24/23	649060	L	1000 ug				13300 ug	20 ug/M3
Lab ID: 8054015014	Sample ID:	TSP011923-14	AMSE1				Media: 8	3X10 PR	EWEIGH	IED GLASS	Sample Date:	2/16/2023 3:33:00 PM
Analyte		Method		Analysis Date	Volume		Reporting Limit	Fro	ont	Rear	Total	Concentration
Total Suspended Particu	ilates	40CFR50 App.B	1	02/24/23	601180	1	1000 ug				19400 ug	32 ug/M3
Copper	JIAICS	40CFR50App.G 6010B		02/24/23	601180		98 ug				297 ug	0.494 ug/M3
Lead		40CFR50App.G 6010B	Mod./EPA	02/28/23	601180	L	14 ug				< 14 ug	< 0.0233 ug/M3
Manganese		40CFR50App.G 6010B	Mod./EPA	02/28/23	601180	L	98 ug				< 98 ug	< 0.163 ug/M3
Lab ID: B054015015	Sample ID:	PM011923-15	AMSE2				Media: 8	3X10 PR	EWEIGH	IED GLASS	Sample Date:	2/16/2023 2:54:00 PM
Analyte		Method		Analysis Date	Volume		Reporting Limit	Fro	ont	Rear	Total	Concentration
PM10 Particulates		40CFR50 App.J		02/24/23	666750	L	1000 ug				14100 ug	21 ug/M3
Lab ID: B054015016	Sample ID:	TSP011923-16	AMSE2				Media: 8	3X10 PR	EWEIGH	IED GLASS	Sample Date:	2/16/2023 2:54:00 PM
Analyte		Method		Analysis Date	Volume		Reporting Limit	Fro	ont	Rear	Total	Concentration
Total Suspended Particu	Jataa	40CFR50 App.B		02/24/23	495140		1000 ug				25400 ug	51 ug/M3



Final Report

Lab ID: B054015016	Sample ID:	TSP011923-16 AMSE2			Media: 8X	10 PREWEIG	HED GLASS	Sample Date:	2/16/2023 2:54:00 PM
Analyte		Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Copper		40CFR50App.G Mod./EPA 6010B	02/28/23	495140 L	98 ug			1450 ug	2.9285 ug/M3
Lead		40CFR50App.G Mod./EPA 6010B	02/28/23	495140 L	14 ug			< 14 ug	< 0.0283 ug/M3
Manganese		40CFR50App.G Mod./EPA 6010B	02/28/23	495140 L	98 ug			< 98 ug	< 0.1979 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 B054015

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

Gilbane	Federal	

COC # 022122AIRE



2300 Clayton Road, Suite 1050, Concord, CA 94520

Pre	ject Name: Hunters Point	Shipyard, F	Parcel E RA P	hase 2		Lab	orato	ry: El	INS BUILT EN	VIRO	NMENT	TESTING ANALY	TICS, ASH	LAND, N	/A		rcel E Phase 2 Air
Pro	ject Number: J310000400					PO	C:						-			Monitorin	g
WE	S Code: J310000400-016					Shi	p to:	10329	ny Run Lane, A	shland	d, VA 230	005					
Co	mments:				lethod			i Mn Cu			A	Matrix Air Container/Preservative 1x Envelope, None					Page 1 of 4
Eq	uipment:				Analytical Test Method	CAAIR - Air PM10	-	SW6010B - Air Pb Mn									
	Event: Parcel E Phase 2 A	Air Monitorin	g			1	1	1									
	Sample ID	Matrix	Date	Time	Samp Init.							Location ID	Sample Type		(ft bgs) Bottom	Cooler	Comments
1	PM011923-01	A	02/14/2023	0639		х						AMSE1	N1	0.00	0.00	1	
2	TSP011923-02	A	02/14/2023	0639			х	x				AMSE1	N1	0.00	0.00	1	
3	PM011923-03	A	02/14/2023	0633		х						AMSE2	N1	0.00	0.00	1	
4	TSP011923-04	A	02/14/2023	0633			x	x				AMSE2	N1	0.00	0.00	1	
Tu	naround Time: 5 days						-			-					-		

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	2/21/23	160	Felex	2/2/23	lians	Shipping Date: 2/21/2023 / FEDEX / 771261581290
	, ,			2123173	1025	Provident observations (Signature Data Time) & condition
						Received by Laboratory: (Signature, Date, Time) & condition 2/23/23 (1/24) 1/25 Seal
						intact.

	HAIN-OF-CUSTOD ECORD	, T		oane Federal 0 Clayton Ro	ad, Suite	105	0, Co	oncor	CA 94520		COC #	02212		-	GE	S
Pro	ject Name: Hunters Point S	Shipyard, I	Parcel E RA P	hase 2		Lat	oorat	tory: I	ROFINS BUILT	ENVIR	ONMENT TESTING ANAL	YTICS, ASH	LAND,	/A	the second second second	el E Phase 2 Air
Pro	ject Number: J310000400					PO	C:								Monitoring	
WB	S Code: J310000400-016					Shi	p to:	103	Stony Run Lane	e, Ashlai	nd, VA 23005					
	mments: upment:				Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu			Code Matrix A Air Code Container/Preservati 1 1x Envelope, None	ve				Page 2 of 4
	Event: Parcel E Phase 2 Ai	ir Monitorin	9			1	1	1				- 10 - 1				
	Sample ID	Matrix	Date	Time	Samp Init.						Location ID	Sample Type		(ft bgs) Bottom	Cooler	Comments
1	PM011923-05	A	02/15/2023	0712		x					AMSE1	N1	0.00	0.00	1	Contractores
2	TSP011923-06	A	02/15/2023	0712			x	x			AMSE1	N1	0.00	0.00	1	
3	PM011923-07	A		6658		x					AMSE2	'N1	0.00	0.00	1	
4	TSP011923-08	A	02/15/2023	OGSX			X	X			AMSE2	N1	0.00	0.00	1	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	2/21/23	1600	Feed Cr	2/21/23	1602	Shipping Date: 2/21/2023 / FEDEX / 771261581290
	1.1			2123173	1025	Received by Laboratory: (Signature, Date, Time) & condition
			II.			123123 (Ustody 1025 Scal 1Atact

	HAIN-OF-CUSTO ECORD	DY		oane Federal 0 Clayton Ro	ad, Suite	<u>1</u> 05(0, Co	oncor	rd, CA	94520	D		COC #	02212	2AIRI	=	GE	S
Pro	ject Name: Hunters Poin	t Shipyard, I	Parcel E RA P	hase 2		Lab	orat	ory: I	EURO	FINS	BUILT	INVIRC	NMENT TESTING ANAL	YTICS, ASH	LAND, V	/A	Event: Pa	rcel E Phase 2 Air
Pro	ject Number: J310000400	0				PO	C:										Monitorin	g
WB	S Code: J310000400-016	j				Shi	p to:	1032	29 Sto	ny Ru	n Lane,	Ashlan	d, VA 23005				P	
	mments: Jipment:				L Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu					Code Matrix A Air Code Container/Preservati 1 1x Envelope, None	ve				Page 3 of 4
_	Event: Parcel E Phase 2.	Air Monitorin	g		-	1	1	1						10 mile	Death	(4		
	Sample ID	Matrix	Date	Time	Samp Init.								Location ID	Sample Type		(ft bgs) Bottom	Cooler	Comments
1	PM011923-09	A	02/16/2023	0654		х							AMSE1	N1	0.00	0.00	1	
2	TSP011923-10	A	02/16/2023	0654		1	X	X					AMSE1	N1	0.00	0.00	1	
3	PM011923-11	A	02/16/2023	0643		х							AMSE2	N1	0.00	0.00	1	
4	TSP011923-12	A	02/16/2023	0643			X	X					AMSE2	N1	0.00	0.00	1	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	2/21/23	1600	Fedfox	2/2/23	1602	Shipping Date: 2/21/2023 / FEDEX / 771261581290
	7.1			2 (23) 73	1075	Received by Laboratory: (Signature, Date, Time) & condition
						2123123 Custody 1025 Scar
CES Name COC Field						intact

Turnaround Time: 5 days



COC # 022122AIRE



DECODD

	RECORD		230	0 Clavton Ro	ad. Suite	1050	0, Co	ncor	d, CA	94520							GE	S		
Project Name: Hunters Point Shipyard, Parcel E RA Phase 2 Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA											/A	Event: Parcel E Phase 2 Air								
Pro	ject Number: J31000040	00				PO	C:					Monitoring								
NB	S Code: J310000400-01	6				Shi	Ship to: 10329 Stony Run Lane, Ashland, VA 23005													
Comments:					Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu					Code Matrix A Air Code Container/Preservativ 1 1x Envelope, None	0				Page 4 of		
	Event: Parcel E Phase 2	2 Air Monitorin	g			1	1	1												
	Sample ID	Matrix	Date	Time	Samp Init.								Location ID	Sample Type		(ft bgs) Bottom	Cooler	Comments		
1	PM011923-13	A	02/16/2023	1533		х							AMSE1	N1	0.00	0.00	1			
2	TSP011923-14	A	02/16/2023	1533			X	X					AMSE1	N1	0.00	0.00	1			
3	PM011923-15	A	02/16/2023	1454		x							AMSE2	N1	0.00	0.00	1			
4	TSP011923-16	A	02/16/2023	1454			X	X					AMSE2	N1	0.00	0.00	1			
Tur	naround Time: 5 days		1																	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	2/21/23	1600	Felfx	2/21/23	1618	Shipping Date: 2/21/2023 / FEDEX / 771261581290
	_			6165165	1025	Bessived by Laboratory (Signature, Date, Time) & condition
						2123123 CUS+0d-1
						1025 scal
CES New COC Field						

4

COC # 022122AIRE

	ect Name: Hunters Poin	Event: Parcel E Phase 2 Air Monitoring				
	ect Number: J31000040 S Code: J310000400-016					
WB:	5 Code: J310000400-016					
	Sample ID	Matrix	Date	Time	Comments	
1	PM011923-01	A	02/14/2023	0639	VOLUME: 1635.51 (M3)	
2	TSP011923-02	A	02/14/2023	0639	VOLUME: 1609.00 (M3)	
3	PM011923-03	A	02/14/2023	0633	VOLUME: 1570.68 (M3)	
4	TSP011923-04	A	02/14/2023	0633	VOLUME: 1637.21 (M3)	
5	PM011923-05	A	02/15/2023	0712	VOLUME: 1804.76 (M3)	
6	TSP011923-06	A	02/15/2023	0712	VOLUME: 1707.05 (M3)	
7	PM011923-07	A	02/15/2023	0658	VOLUME: 1892.52 (M3)	
8	TSP011923-08	A	02/15/2023	0658	VOLUME: 1892.50 (M3)	
9	PM011923-09	A	02/16/2023	0654	VOLUME: 1748.25 (M3)	
10	TSP011923-10	A	02/16/2023	0654	VOLUME: 1649.79 (M3)	
11	PM011923-11	A	02/16/2023	0643	VOLUME: 1837.51 (M3)	
12	TSP011923-12	A	02/16/2023	0643	VOLUME: 1834.58 (M3)	
13	PM011923-13	A	02/16/2023	1533	VOLUME: 649.06 (M3)	
14	TSP011923-14	A	02/16/2023	1533	VOLUME: 601.18 (M3)	
15	PM011923-15	A	02/16/2023	1454	VOLUME: 666.75 (M3)	
16	TSP011923-16	A	02/16/2023	1454	VOLUME: 495.14 (M3)	

Sample ID	Cubic Meter	Voiume (L)
PM011923-01	1635.51	1635510
TSP011923-02	1609	1609000
PM011923-03	1570.68	1570680
TSP011923-04	1637.21	1637210
PM011923-05	1804.76	1804760
TSP011923-06	1707.05	1707050
PM011923-07	1892.52	1892520
TSP011923-08	1892.5	1892500
PM011923-09	1748.25	1748250
TSP011923-10	1649.79	1649790
PM011923-11	1837.51	1837510
TSP011923-12	1834.58	1834580
PM011923-13	649.06	649060
TSP011923-14	601.18	601180
PM011923-15	666.75	666750
TSP011923-16	495.14	495140
		•

•

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Level 2 QA/QC Summary Report

Report Date: 2/28/2023

Batch ID: ICP230224B

Blank Spike	e Results		Percent I	Recovery			
QC ID	QC Type	Parameter	LCS	LCSD	Acceptance	RPD	Limit
LCS ICP2	BLKSPK	Copper	93.0	96.0	75-125	4.0	25
LCS ICP2	BLKSPK	Lead	96.0	99.0	75-125	2.0	25
LCS ICP2	BLKSPK	Manganese	91.0	96.0	75-125	5.0	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



March 7, 2023

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

Laboratory Workorder ID: B060004

Client Project ID:J310000400 PARCEL E HUNTERS PTReceived:March 1, 2023Reported:March 7, 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.



Technical Director

Enclosures



Final Report								
Work Order B060004								
AIS-GES, LLC 1501 W. FOUNTAINHEAD PKWY, #550			Customer: Attention:	PARCELE1			Date Received	: 03/01/23
TEMPE, AZ 85282			PO Number	J310000400-016			Client Project I	D J310000400 PARCEL E HUNTERS PT
Lab ID: B060004001 Sample ID:	PM011923-20 AMSE1			Media: 8X	(10 PREWEIGH	HED GLASS	Sample Date:	2/21/2023 6:37:00 AM
Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/02/23	1723500 L	1000 ug			44500 ug	26 ug/M3
Lab ID: B060004002 Sample ID:	TSP011923-21 AMSE1			Media: 8X	(10 PREWEIGH	HED GLASS	Sample Date:	2/21/2023 6:37:00 AM
Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/02/23	1633670 L	1000 ug			61300 ug	38 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	03/03/23	1633670 L	98 ug			489 ug	0.2993 ug/M3
Lead	40 CFR Part 50 Appendix G	03/03/23	1633670 L	14 ug			< 14 ug	< 0.009 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	03/03/23	1633670 L	98 ug			29.2 ug	0.0179 ug/M3
Lab ID: B060004003 Sample ID:	PM012023-01 AMSE2			Media: 8X	(10 PREWEIGH	HED GLASS	Sample Date:	2/21/2023 6:28:00 AM
Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	03/02/23	1839270 L	1000 ug			41900 ug	23 ug/M3



40 CFR Part 50 Appendix G 03/03/23

Final Report

Work Order B060004

	Comple ID:	TCD010000 00	AMSE2			Madia, 0V4			Comula Datas	0/04/00000 0:00:00 AM
Lab ID: B060004004	Sample ID:	TSP012023-02	AMSEZ				0 PREWEIG	HED GLASS	Sample Date:	2/21/2023 6:28:00 AM
Analyte		Method		Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Part	iculates	40CFR50 App.B		03/02/23	1843000 L	1000 ug			55800 ug	30 ug/M3
Copper		40CFR50App.G 6010B	Mod./EPA	03/03/23	1843000 L	98 ug			481 ug	0.261 ug/M3
Lead		40 CFR Part 50	Appendix G	03/03/23	1843000 L	14 ug			< 14 ug	< 0.008 ug/M3
Manganese		40CFR50App.G 6010B	Mod./EPA	03/03/23	1843000 L	98 ug			22.2 ug	0.012 ug/M3
Lab ID: B060004005	Sample ID:	PM012023-03	AMSE1			Media: 8X1	0 PREWEIGI	HED GLASS	Sample Date:	2/22/2023 6:46:00 AM
	Compio 121									
Analyte		Method		Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Analyte PM10 Particulates				•	Volume 1776620 L		Front	Rear	Total 217000 ug	Concentration 122 ug/M3
•		Method	AMSE1	Date		Limit 1000 ug	Front 0 PREWEIGH			
PM10 Particulates		Method 40CFR50 App.J	AMSE1	Date		Limit 1000 ug			217000 ug	122 ug/M3
PM10 Particulates Lab ID: B060004006	Sample ID:	Method 40CFR50 App.J TSP012023-04		Date 03/02/23 Analysis	1776620 L	Limit 1000 ug Media: 8X1 Reporting	0 PREWEIGH	HED GLASS	217000 ug Sample Date:	122 ug/M3 2/22/2023 6:46:00 AM
PM10 Particulates Lab ID: B060004006 Analyte	Sample ID:	Method 40CFR50 App.J TSP012023-04 Method		Date 03/02/23 Analysis Date 03/02/23	1776620 L Volume	Limit 1000 ug Media: 8X1 Reporting Limit	0 PREWEIGH	HED GLASS	217000 ug Sample Date: Total	122 ug/M3 2/22/2023 6:46:00 AM Concentration

98 ug

112 ug

0.066 ug/M3

Manganese

1685750 L



Final Report

Work Order B060004

Lab ID:	B060004007	Sample ID:	PM012023-05	AMSE2			Media: 8	3X10 PREWEIC	GHED GLASS	Sample Date:	2/22/2023 6:38:00 AM
Analyte	•		Method		Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 P	Particulates		40CFR50 App.J		03/02/23	1864770 L	1000 ug			298000 ug	160 ug/M3
Lab ID:	B060004008	Sample ID:	TSP012023-06	AMSE2			Media: 8	3X10 PREWEIC	GHED GLASS	Sample Date:	2/22/2023 6:38:00 AM
Analyte	•		Method		Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Su	uspended Partic	ulates	40CFR50 App.B		03/02/23	1877300 L	1000 ug			211000 ug	112 ug/M3
Copper			40 CFR Part 50	Appendix G	03/03/23	1877300 L	98 ug			225 ug	0.12 ug/M3
Lead			40 CFR Part 50	Appendix G	03/03/23	1877300 L	14 ug			60.4 ug	0.032 ug/M3
Mangar	nese		40 CFR Part 50	Appendix G	03/03/23	1877300 L	98 ug			115 ug	0.061 ug/M3
∟ab ID:	B060004009	Sample ID:	PM012023-07	AMSE1			Media: 8	3X10 PREWEIC	GHED GLASS	Sample Date:	2/23/2023 6:47:00 AM
Analyte	•		Method		Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 P	Particulates		40CFR50 App.J		03/02/23	1763060 L	1000 ug			25600 ug	15 ug/M3
Lab ID:	B060004010	Sample ID:	TSP012023-08	AMSE1			Media: 8	3X10 PREWEIC	GHED GLASS	Sample Date:	2/23/2023 6:47:00 AM
Analyte	•		Method		Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Su	uspended Partic	ulates	40CFR50 App.B		03/02/23	1674060 L	1000 ug			46700 ug	28 ug/M3
Copper			40 CFR Part 50	Appendix G	03/03/23	1674060 L	98 ug			288 ug	0.172 ug/M3
Lead			40 CFR Part 50	Appendix G	03/03/23	1674060 L	14 ug			< 14 ug	< 0.008 ug/M3

Report ID:: B060004-202303070557

Analysis Report Section - Page 3 of 6



Final Report

Work Order B060004

Lab ID: B060004010	Sample ID:	TSP012023-08	AMSE1			Media: 8X	10 PREWEIGH	HED GLASS	Sample Date:	2/23/2023 6:47:00 AM
Analyte		Method		Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Manganese		40 CFR Part 50	Appendix G	03/03/23	1674060 L	98 ug			< 98 ug	< 0.059 ug/M3
Lab ID: B060004011	Sample ID:	PM012023-09	AMSE2			Media: 8X	10 PREWEIGH	IED GLASS	Sample Date:	2/23/2023 6:38:00 AM
Analyte		Method		Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates		40CFR50 App.J		03/02/23	1692620 L	1000 ug			18200 ug	11 ug/M3
Lab ID: B060004012	Sample ID:	TSP012023-10	AMSE2			Media: 8X	10 PREWEIGH	HED GLASS	Sample Date:	2/23/2023 6:38:00 AM
Analyte				Analusia						
		Method		Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Partice	ulates	Method 40CFR50 App.B			Volume 1698060 L		Front	Rear	Total 35000 ug	Concentration 21 ug/M3
•	ulates			Date 03/02/23		Limit	Front	Rear		
Total Suspended Partice	ulates	40CFR50 App.B	Appendix G	Date 03/02/23 03/03/23	1698060 L	Limit 1000 ug	Front	Rear	35000 ug	21 ug/M3
Total Suspended Partice Copper	ulates	40CFR50 App.B 40 CFR Part 50	Appendix G Appendix G	Date 03/02/23 03/03/23 03/03/23	1698060 L 1698060 L	Limit 1000 ug 98 ug	Front	Rear	35000 ug 185 ug	21 ug/M3 0.109 ug/M3
Total Suspended Partice Copper Lead	ulates Sample ID:	40CFR50 App.E 40 CFR Part 50 40 CFR Part 50	Appendix G Appendix G	Date 03/02/23 03/03/23 03/03/23	1698060 L 1698060 L 1698060 L	Limit 1000 ug 98 ug 14 ug 98 ug	Front		35000 ug 185 ug < 14 ug	21 ug/M3 0.109 ug/M3 < 0.008 ug/M3
Total Suspended Partice Copper Lead Manganese		40CFR50 App.E 40 CFR Part 50 40 CFR Part 50 40 CFR Part 50	Appendix G Appendix G Appendix G	Date 03/02/23 03/03/23 03/03/23	1698060 L 1698060 L 1698060 L	Limit 1000 ug 98 ug 14 ug 98 ug			35000 ug 185 ug < 14 ug < 98 ug	21 ug/M3 0.109 ug/M3 < 0.008 ug/M3 < 0.058 ug/M3



Final Report

Work Order B060004

Lab ID:	B060004014	Sample ID:	TSP012023-12	AMSE1			Media:	8X10	PREWEIGH	IED GLASS	Sample Date:	2/23/2023 2:50:00 PM
Analyte			Method		Analysis Date	Volume	Reporting Limit	g	Front	Rear	Total	Concentration
Total Su	spended Partic	ulates	40CFR50 App.E	3	03/02/23	555280 L	1000 ug				163000 ug	293 ug/M3
Copper			40 CFR Part 50	Appendix G	03/03/23	555280 L	98 ug				233 ug	0.419 ug/M3
Lead			40 CFR Part 50	Appendix G	03/03/23	555280 L	14 ug				14.6 ug	0.026 ug/M3
Mangan	ese		40 CFR Part 50	Appendix G	03/03/23	555280 L	98 ug				124 ug	0.224 ug/M3
Lab ID:	B060004015	Sample ID:	PM012023-13	AMSE2			Media:	8X10	PREWEIGH	IED GLASS	Sample Date:	2/23/2023 2:39:00 PM
Analyte			Method		Analysis Date	Volume	Reporting Limit	g	Front	Rear	Total	Concentration
PM10 P	articulates		40CFR50 App.J		03/02/23	586400 L	1000 ug		_		3900 ug	7 ug/M3

 Lab ID:
 B060004016
 Sample ID:
 TSP012023-14
 AMSE2
 Media:
 8X10 PREWEIGHED GLASS
 Sample Date:
 2/23/2023 2:39:00 PM

		Anglusia		Dementing				
Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	03/02/23	589760 L	1000 ug			4700 ug	8 ug/M3
Copper	40 CFR Part 50 Appendix G	03/03/23	589760 L	98 ug			< 98 ug	< 0.166 ug/M3
Lead	40 CFR Part 50 Appendix G	03/03/23	589760 L	14 ug			< 14 ug	< 0.024 ug/M3
Manganese	40 CFR Part 50 Appendix G	03/03/23	589760 L	98 ug			< 98 ug	< 0.166 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 B060004

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

0.0	HAIN-OF-CUSTO ECORD	DY	- 1	oane Federal 0 Clayton Roa	ad, Suite	1050	0, Co	oncor	d, CA	945	20				COC #	02282	3AIR	E	В	060004
Pro	ject Name: Hunters Poir	t Shipyard, F	Parcel E RA P	hase 2		Lab	orat	ory: I	EURO	FINS	BUI	LTE	NVI	RON	MENT TESTING ANALY	TICS, ASH	LAND,	VA	Event: P	arcel E Phase 2 Air
Pro	ject Number: J31000040	0				PO	C:												Monitori	ng
WE	S Code: J310000400-016	5				Shi	p to:	1032	29 Sto	ny R	un La	ane, ,	Ashl	and	VA 23005					
	mments: uipment:				Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu			×	20	ila	3	Code Matrix A Air Code Container/Preservative 1 1x Envelope, None	8			Pixae	- 1 OF 4
	Event: Parcel E Phase 2	Air Monitoring	g			1		1											1.0	
	Sample ID	Matrix	Date	Time	Samp Init.										Location ID	Sample Type		(ft bgs) Bottom	Cooler	Comments
1	PM011923-20	A	02/21/2023	0637		х			1				1		AMSE1	N1	0.00	0.00	1	VOLUME: (M3)
2	TSP011923-21	A	02/21/2023	0637			X	х			2	6	1		AMSE1	N1	0.00	0.00	1	VOLUME: (M3)
3	PM012023-01	A	02/21/2023	0628		х					X	V	2	71	AMSE2	N1	0.00	0.00	1	VOLUME: (M3)
4	TSP012023-02	A	02/21/2023	0628			X	x						1.	AMSE2	N1	0.00	0.00	1	VOLUME: (M3)

Relinguished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	2/28/23	1400	Feder	2/28/23	1400	Shipping Date: 2/28/2023 / FEDEX / 7713 2868 1584
				311173	1029	
				511167		Received by Laboratory: (Signature, Date, Time) & condition
						3/1/23 CUSTODY
						uza seul
	4					Intaut
GES.Navy_COC_Field						

	HAIN-OF-CUST ECORD	ODY		ane Federal 0 Clayton Roa	ad, Suite	1050), Co	ncord	, CA	9452	20			COC #	02282	3AIRI	E	GE	S
Pro	oject Name: Hunters Po	int Shipyard, I	Parcel E RA P	hase 2		Lab	orato	ory: E	URO	FINS	BUIL	TEN	VIRO	NMENT TESTING ANALY	TICS, ASH	LAND,	/A	Event: Pa	rcel E Phase 2 Air
Pro	oject Number: J3100004	100				PO	C:											Monitori	ng
NE	3S Code: J310000400-0	16				Shi	p to:	1032	9 Sto	ny Ri	un Lai	ne, As	shlan	d, VA 23005					
	mments: uipment:				Analytical Test Method	CAAIR - Air PM10	r TSP	SW6010B - Air Pb Mn Cu		A	12	3/2	3	Code Matrix A Air Code Container/Preservative 1 1x Envelope, None	2			PM	16 2 05 4
_	Event: Parcel E Phase	2 Air Monitorin	g			1	1	1				_					(0)		
	Sample ID	Matrix	Date	Time	Samp Init.									Location ID	Sample Type		(ft bgs) Bottom	Cooler	Comments
1	PM012023-03	A	02/22/2023	0646		x		-					1	AMSE1	N1	0.00	0.00	1	VOLUME: (M3)
2	TSP012023-04	A	02/22/2023	0646			x	x	1		01		1	AMSE1	N1	0.00	0.00	1	VOLUME: (M3)
3	PM012023-05	A	02/22/2023	0638		х						75	12-	7 AMSE2	N1	0.00	0.00	1	VOLUME: (M3)
4	TSP012023-06	A	02/22/2023	0638			x	x			-	×	10	AMSE2	N1	0.00	0.00	1	VOLUME: (M3)

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	2/28/23	1400	Fedex	2/28/23	1400	Shipping Date: 2/28/2023 / FEDEX / 7713 2868 1584
				311123	1029	
		-				Received by Laboratory: (Signature, Date, Time) & condition
						31,123 CUSTOAY 1029 Seal INTALT

	AIN-OF-CUSTOD	Y		ane Federal 0 Clayton Roa	ad, Suite	105	0, Ca	onco	ord, C/	A 945	520				COC #	02282	3AIR	E	G	S	
Pro	ject Name: Hunters Point S	Shipyard, I	Parcel E RA P	hase 2		Lat	borat	tory:	EUR	DFIN	S BUI	ILT E	NVI	RON	MENT TESTING ANALY	TICS, ASH	LAND,	VA	Event: Pa	arcel E Phase 2 Air	
Pro	ject Number: J310000400					PO	C:												Monitoring		
WB	S Code: J310000400-016					Shi	Ship to: 10329 Stony Run Lane, Ashland, VA 23005														
	nments: ilpment:				Analytical Test Method		N0500 - Air TSP	SW6010B - Air Pb Mn Cu		2	*/2	5	123	5	Code Matrix A Air Code Container/Preservative 1 1x Envelope, None	1			Post	F 3 6F 4	
	Event: Parcel E Phase 2 Ai	r Monitorin	g			1	1	1						0							
	Sample ID	Matrix	Date	Time	Samp Init.										Location ID	Sample Type		(ft bgs) Bottom	Cooler	Comments	
1	PM012023-07	A	02/23/2023	0647		х						1			AMSE1	N1	0.00	0.00	1	VOLUME: (M3)	
-	TSP012023-08	A	02/23/2023	0647			X	х			2	1	-1		AMSE1	N1	0.00	0.00	1	VOLUME: (M3)	
2		1	02/23/2023		1	х					2	X	5/h	-2	AMSE2	N1	0.00	0.00	1	VOLUME: (M3)	
2	PM012023-09	A	02/23/2023	0638							1 1	W	11/	1911	and the second se	and a second second second		the second se			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	2/28/23	1400	Fedex	2/28/23	1400	Shipping Date: 2/28/2023 / FEDEX / 7713 2868 1584
				3/1/23	1029	
						Received by Laboratory: (Signature, Date, Time) & condition
					19	- 3/1123 CUSTODY
						1029 Seal

CHAIN-OF-CUSTODY RECORD

Gilbane Federal





2300 Clayton Road, Suite 1050, Concord, CA 94520

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2							Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA									VA	Event: Parcel E Phase 2 Air				
Pro	ject Number: J31000040	00				PO	POC:												Monitoring		
WBS Code: J310000400-016							Ship to: 10329 Stony Run Lane, Ashland, VA 23005														
Comments:								n Cu			2	6			Code Matrix A Air Code Container/Preservative 1 1x Envelope, None	e			Pau	f 4 of 4	
Equipment:					CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn			2	14	5/2	3								
	Event: Parcel E Phase 2	2 Air Monitorin	g			1	1	1													
	Sample ID	Matrix	Date	Time	Samp Init.		_								Location ID	Sample Type		(ft bgs) Bottom	Cooler	Comments	
1	PM012023-11	A	02/23/2023	20001 145	D	х							1.1		AMSE1	N1	0.00	0.00	1	VOLUME: (M3)	
2	TSP012023-12	A	02/23/2023	-0001 145 -0001 145	b		X	X			2	1	1		AMSE1	N1	0.00	0.00	1	VOLUME: (M3)	
3	PM012023-13	A	02/23/2023	7,0001 143	34	х					D	24	3A	2+	AMSE2	N1	0.00	0.00	1	VOLUME: (M3)	
4	TSP012023-14	A	02/23/2023		341	-	X	X				-	X	9	AMSE2	N1	0.00	0.00	1	VOLUME: (M3)	
Tu	rnaround Time: 5 days								-			-	-	-							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	2/28/23	1400	Redex	2 28/23	1400	Shipping Date: 2/28/2023 / FEDEX / 7713 2868 1584
				311123	1029	
						Received by Laboratory: (Signature, Date, Time) & condition
						SIIIZ3 CUSTOdy
						1029 intact





_	ject Name: Hunters Poir ject Number: J31000040	a second second	Event: Parcel E Phase 2 Air Monitoring		
3.55	S Code: J310000400-016				
	Sample ID	Matrix	Date	Time	Comments
1	PM011923-20	A	02/21/2023	0637	VOLUME (M3): 1723.50
2	TSP011923-21	A	02/21/2023	0637	VOLUME (M3): 1633.67
3	PM012023-01	A	02/21/2023	0628	VOLUME (M3): 1839.27
4	TSP012023-02	A	02/21/2023	0628	VOLUME (M3): 1843.00
5	PM012023-03	A	02/22/2023	0646	VOLUME (M3): 1776.62
6	TSP012023-04	A	02/22/2023	0646	VOLUME (M3): 1685.75
7	PM012023-05	A	02/22/2023	0638 -	VOLUME (M3): 1864.77
8	TSP012023-06	A	02/22/2023	0638	VOLUME (M3): 1877.30
9	PM012023-07	A	02/23/2023	0647	VOLUME (M3): 1763.06
10	TSP012023-08	A	02/23/2023	0647	VOLUME (M3): 1674.06
11	PM012023-09	A	02/23/2023	0638	VOLUME (M3): 1692.62
12	TSP012023-10	A	02/23/2023	0638	VOLUME (M3): 1698.06
13	PM012023-11	A	02/23/2023	1450	VOLUME (M3): 584.65
14	TSP012023-12	A	02/23/2023	1450	VOLUME (M3): 555.28
15	PM012023-13	A	02/23/2023	1439	VOLUME (M3): 586.40
16	TSP012023-14	A	02/23/2023	1439	VOLUME (M3): 589.76

Sample ID	Cubic Meter	Volume (L)
PM011923-20	1723.5	1723500
TSP011923-21	1633.67	1633670
PM012023-01	1839.27	1839270
TSP012023-02	1843	1843000
PM012023-03	1776.62	1776620
TSP012023-04	1685.75	1685750
PM012023-05	1864.77	1864770
TSP012023-06	1877.3	1877300
PM012023-07	1763.06	1763060
TSP012023-08	1674.06	1674060
PM012023-09	1692.62	1692620
TSP012023-10	1698.06	1698060
PM012023-11	584.65	584650
TSP012023-12	555.28	555280
PM012023-13	586.4	586400
TSP012023-14	589.76	589760
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Level 2 QA/QC Summary Report

Work Order #: B060004

Report Date: 3/7/2023

Batch ID: ICP230303A

Blank Spike	e Results		Percent I	Percent Recovery								
QC ID	QC Type	Parameter	LCS	LCSD	Acceptance	RPD	Limit					
LCS ICP2	BLKSPK	Copper	0.0	0.0	75-125	2.0	25					
LCS ICP2	BLKSPK	Lead	88.0	88.0	75-125	0.0	25					
LCS ICP2	BLKSPK	Manganese	86.0	86.0	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